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Worker Safety and Health Program

TO BE COMPLETED BY RECORDS MANAGEMENT AND DOCUMENT CONTROL		
PERIODIC REVIEW		
Performed By	Date	Next Review Date

APPROVAL PAGE

Listed below are personnel responsible for the preparation, review, and approval of this plan. Signatures for each have been provided on OSMS Form 4320, Document Review & Approval Form..

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	REVISION LOG		
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ACRONYMS

AHS All-Hazards Survey

ALARA As Low as Reasonably Achievable

ASME American Society of Mechanical Engineers

CAIRS Computerized Accident and Incident Reporting System

CDI Controlled Document Index
CFR Code of Federal Regulations
dBA Decibels on the A-weight scale

DEAR Department of Energy Acquisition Regulation

DOE U.S. Department of Energy
DSA Documented Safety Analysis
DUF6 Depleted Uranium Hexafluoride

EPHA Emergency Planning Hazards Analysis

ES&H Environment, Safety and Health

ESH&Q Environment, Safety, Health, and Quality

FBP Fluor-BWXT Portsmouth, LLC

FP Fire Protection

GET General Employee Training
ISM Integrated Safety Management

ISMS Integrated Safety Management System

ISSC Infrastructure Support Services Contractor (SST)

LEU Low-Enriched Uranium

LOTO Lockout/Tagout

MCSA Mission Conversion Services Alliance, LLC

NFPA National Fire Protection Association
NTS Nonconformance Tracking System

O&M Operations and Maintenance

OSHA Occupational Safety and Health Administration

OSMS Operations and Site Mission Support Services contract

QA Quality Assurance

PAAA Price-Anderson Amendments Act

POC Point of Contract

PPPO Portsmouth/Paducah Project Office
PORTS Portsmouth Gaseous Diffusion Plant

PPE Personal Protective Equipment PQAP Project Quality Assurance Plan

Project OSMS Project

SHP Safety and Health Procedure
SMP Safety Management Program
SST Swift and Staley (see ISSC above)

STD Standard

TSR	Technical Safety Requirements
USQ	Unreviewed Safety Question

USW United Steel Worker

WSHP Worker Safety and Health Program

WSS Worker Smart Standards

EXECUTIVE SUMMARY

It is the policy of Mission Conversion Services Alliance, LLC (MCSA) to carry out Department of Energy (DOE) Operations and Site Mission Support Contract (OSMS) activities in a safe, reliable, and high quality manner, while assuring that contractual commitments are met. This includes conducting operations with the highest regard for personal safety, environmental protection, and regulatory compliance. Work performed under the OSMS Contract will include, but not be limited to consolidated uranium material processing, cylinder management/operations, and mission support (site emergency management program, utilities operations, fire services, protective force, nuclear material control and accountability.

Attached to this document is a matrix listing the implementing procedures used by the current Sites' Prime Contractors' Workers Safety and Health Programs (WSHPs) to implement their 10 CFR 851 compliant programs.

The Attachments (e.g., crosswalks) reference the various procedures used by contractors who currently perform some of the scope now to be performed by MCSA as part of the OSMS Contract. MCSA will, over the course of time, review/replace/update the referenced implementing procedures, as applicable.

The use of the DUF6 implementing document listed in the right column in Attachment B can be used to determine the corresponding Implementing procedure(s) used by FBP, FRNP, SST, and DUF6 for each 10 CFR 851 Element, as applicable.

Note: DUF6 Implementing numbers were used where available.

However, due to the new OSMS Scope, the DUF6 Project did not have procedures in the areas of Explosives, Firearms, and in some areas of Piping/Pressure Safety.

These previously not applicable sections have FRNP and FBP procedure numbers listed for use in the Attachments, as applicable.

1 PURPOSE

This Worker Safety and Health Program (WSHP) establishes the framework for Mission Conversion Services Alliance, LLC (MCSA) Title 10 Code of Federal Regulations Part 851 (10 CFR 851) including the 10 CFR 851 Technical Amendment, Worker Safety and Health Program-Compliant Worker Safety and Health Program (WSHP). MCSA's WSHP reduces or prevents occupational injuries, illnesses and accidental losses by providing a workplace that is free from recognized hazards that cause or have the potential to cause death or serious physical harm to employees.

2 SCOPE

This program has been prepared in accordance with the requirements identified in Contract No. 89303325DEM000122 and 10 CFR 851. These requirements are integrated into plans, procedures, policies, and other controlling documents, as applicable.

3 INTRODUCTION

This document describes the MCSA WSHP. This WSHP integrates safety and health requirements into all phases of activities, while conducting operations in an environmentally sound manner, providing protection to workers, subcontractors, visitors, vendors, and the surrounding community, while fulfilling its mission to the DOE in performance of the OSMS Project.

The WSHP describes the safety and health management systems employed to ensure that applicable standards and criteria are identified, communicated, and implemented. Assessments of safety and health programs are conducted periodically and identified deficiencies are corrected to ensure worker safety and health.

The objective of this document is to describe a WSHP that will assure a workplace free from recognized hazards that cause, or are likely to cause death, injury, or damage to the environment at the OSMS Project Sites.

MCSA is committed to providing a safe and healthy workplace for employees and to protecting the public and the environment.

This WSHP will be updated whenever a significant change or addition to the program is made. At a minimum, the Environment, Safety, Health and Quality Manager will ensure an annual review is conducted ensuring this document continues to reflect the needs of the Project; and continues to address identified controls, changes, conditions, or workplace safety and health standards directed by DOE, consistent with the requirements of 10 CFR 851 and 48 CFR 970.5204–2, laws, regulations, DOE directives identified in the Contract and associated Contract clauses.

Documentation of this review will be either in the form of a letter to the DOE Portsmouth/Paducah Project Office (PPPO) stating that the document was reviewed and no changes were required, or a revised version of the WSHP will be submitted to the DOE PPPO for review and approval in accordance with 10 CFR 851 including the Technical Amendment.

4 PROJECT SCOPE

The mission of the Project is to carry out Department of Energy (DOE) Operations and Site Mission Support Contract (OSMS) activities in a safe, reliable, and high-quality manner, while assuring that contractual commitments are met. This includes conducting operations with the highest regard for personal safety, environmental protection, and regulatory compliance. Work performed under the OSMS Contract will include, but not be limited to consolidated uranium material processing, cylinder management/operations, and mission support (site emergency management program, utilities operations, fire services, protective force, nuclear material control and accountability.

5 SAFETY AND HEALTH METHODOLOGY

This WSHP addresses the safety and health requirements identified in Contract No. 89303325DEM000122 and 10 CFR 851, *Worker Safety and Health Program.* To satisfy these requirements the WSHP utilizes components identified in 10 CFR 830, *Nuclear Safety Management, Subpart A - Quality Assurance Requirements* and DEAR 952.223-71, *Integration of Environment, Safety, and Health into Work Planning and Execution.*

Key to the implementation of the WSHP is the understanding that this is an integrated document that includes the cylinder storage yards, conversion facilities, and key activities and deliverables outlined in the OSMS Scope.

The WSHP for the OSMS activities are implemented primarily through the documents identified in the implementing matrix focusing most especially on the *Project Quality Assurance Plans; Cylinder Surveillance and Maintenance Plan; Conversion Facilities Operations and Maintenance Plan; Safety Management Descriptions Document for the DUF6 Conversion Project; various Nuclear Criticality Safety procedures/programs/analysis, and <i>Integrated Safety Management System Plan.*

This WSHP incorporates a graded approach based upon the severity of the hazards associated with the OSMS Project scope of work and risk. The WSHP includes relevant information concerning scope of work, site hazards, and appropriate Project-level plans and procedures. Where necessary, a hazard specific plan may also be required to address more specific work activities. In all cases, the elements of this program shall be flowed down to the lowest sub-tier contractor according to their subcontract language to assure consistency/applicability.

The Integrated Safety Management System (ISMS) process is a key element to the implementation of the WSHP. MCSA has developed an ISMS plan in accordance with DOE Order 450.2 Change 1, *Integrated Safety Management*; DEAR 952.223-71, Integration of Environment, Safety, and Health into Work Planning and Execution.

MCSA also has a safety management program, *Safety Management Descriptions Document for the DUF6 Conversion Project*, developed in accordance with DOE-STD-3009-94, *Preparation Guide for U.S. Department of Energy Nonreactor Nuclear Facility Documented Safety Analysis*. Other facilities have Nuclear Criticality Safety Programs/Procedures/Analysis/etc. as listed in the implementing procedures matrix attached.

The WSHP and associated implementing documents provide a consistent approach to ensure that applicable requirements are identified and implemented in project documents, hazards are

identified and appropriately mitigated. Trained and qualified personnel are utilized to perform the specific work tasks.

If a hazard(s) cannot be eliminated or substituted, then the OSMS Project's preferred means for minimizing risk to workers is using engineering controls. If engineering controls are determined to be infeasible, then MCSA will implement administrative controls, and, of least preference, Personal Protective Equipment (PPE) as necessary. MCSA may also select a hazard control approach that integrates all three methods of control to reduce risk to workers to an acceptable level. Work controls for work activities will be established based on the process as defined in the work control procedures.

All people performing work activities at the Project Sites (including employees and subcontractors) are subject to the requirements of this WSHP and will be held responsible for adhering to the requirements as applicable and as specified herein. Everyone is responsible for bringing to the attention of management or their point-of-contact (POC) any unsafe or unhealthy conditions or actions that they observe while on either Project site.

This WSHP and associated implementing documents, when mandated in MCSA subcontract documents, eliminates the requirement for an individual subcontractor WSHP plan, which may otherwise be required. MCSA documents and Safety and Health Procedures (SHP) deemed applicable to the scope of work to be performed by the subcontractor are contractually flowed down to the subcontractor.

5.1 Environment, Safety & Health (ES&H) Commitment

A core value and commitment are to provide a safe and healthy workplace for employees and to protect the public and the environment. ES&H leadership starts at the top: MCSA' Board of Directors, Project Manager, and Senior Managers are all responsible for protecting the safety and health of every worker in the organization, including those employed by our subcontractors; visitors; the public; and the environment. Management's commitment to these responsibilities, and their actions, are the cornerstones for setting the culture of accountability, and the expectations for all employees, subcontractors, and their employees. This commitment is described in the *Safety Culture* documents, as well as *Environmental, Safety, and Health Corporate Policy* documents.

Safe performance of work is a part of every employee performance evaluation performed and is an expectation of employment. The term "safe" includes all aspects of safety including the protection of the environment. OSMS' commitment to all aspects of ES&H is described throughout this document. However, some commitments which focus specially on the protection of the environment are described in the *Environmental Management System Plans*, and the various implementing procedures. Additionally, MCSA has implemented various *Sustainability Plans* which describe the actions and efforts taken to minimize the environmental impact of the Project.

5.2 Safety Infrastructure Disciplinary Policy

MCSA believes in a progressive disciplinary approach to ensure equitable and consistent discipline for unsatisfactory conduct in the workplace. The best disciplinary measure is the one that does not have to be enforced and comes from effective leadership, accountability, coaching, and fair supervision. MCSA's own best interest lies in ensuring fair treatment of all employees and in making certain that disciplinary actions are prompt, uniform, and impartial. The major purpose of any disciplinary action is to correct the problem, prevent recurrence, and prepare the

employee for satisfactory service in the future. Construction subcontractors are required to submit their policy, as required in 10 CFR 851, Appendix A.

5.3 Lessons Learned, Feedback and Continuous Improvement

Lessons learned determined to be pertinent to a given scope of work will be reviewed with workers. Lessons learned will be covered in the hazards analysis process, pre-job briefings, and toolbox meetings as applicable. Workers will be encouraged to interact with shared experiences during these reviews. Lessons learned will be generated, utilized, and reviewed in accordance with the various Operating Experience Programs.

The OSMS Project utilizes a variety of feedback and continuous improvement methods to evaluate, on an ongoing basis, the adequacy and effectiveness of the Environment, Safety, Health, and Quality (ESH&Q) management processes and to assure continuous improvement.

Feedback and improvement processes may include capturing of the first-hand insight of workers during and after work performance. MCSA subscribes to the management position that those who do the work know the work best and are in the best position to know the hazards associated with the work, and how to do it more safely, more efficiently, and with less environmental impact. Other feedback and improvement processes include DOE oversight, regulatory oversight, external assessments, management and technical assessments and Quality Assurance (QA) and Contractor Assurance System (CAS) surveillances, lower tier assessments consisting of walkthroughs, oversight, independent assessments, and conduct of operations reviews (self-assessments and job observations), safety culture surveys, tests and evaluations, worker involvement, safety committee meetings, trend analysis, operational experience, and lessons learned. Specific processes for these feedback and improvement mechanisms are detailed in the appropriate procedures.

Additionally, all employees are empowered to express concerns and provide feedback to managers and supervisors. This empowerment encourages new avenues for continuous improvement in the workplace. One of these is the condition reporting system Issues Management) that is used to not only report safety problems, but also reports lessons learned, and the other avenue is the process improvement database for employee suggestions and conditions or situations that need management review for program improvements. As appropriate, ESH&Q performance matrices are developed and resulting data reported monthly to DOE. Safety performance measures will be tracked and trended for the entire Project to assess performance and allow early intervention to reverse emerging adverse trends. To support continuous improvement, a periodic review of internal and external sources including assessments, nonconformance reports, lessons learned (both complex-wide and internally), Price-Anderson Amendments Act (PAAA), and occurrence reports will be performed, and any applicable information will be provided to appropriate company personnel.

5.4 Assessment and Surveillance

Periodic assessments and surveillances are performed in accordance with the various identified Oversight Plans; Independent Assessments; Management Assessments; and Safety Walkthrough Programs, to ensure that a safe work environment is provided in compliance with applicable plans and procedures.

5.5 Multi-Contractor Worksites

Multiple contractors at a covered workplace are required by 10 CFR 851 to coordinate with each other to establish clear roles, responsibilities, and procedures to assure the safety and health of workers at multi-contractor workplaces. MCSA coordinates with other DOE prime contractors at both Project work sites to ensure that clear roles, responsibilities, and procedures are established.

MCSA may interface with other prime contractors performing work activities such as infrastructure maintenance, remediation activities, or other services. This work is provided by the other prime contractors in accordance with their contract with DOE. While performing these tasks, each prime contractor will utilize their own procedures and work control processes if the activity will be performed within their facility and, as allowed by the MCSA work control process and as approved by the Facility Manager, if the activity will be performed on OSMS Project equipment for which the other prime contractor is responsible as part of their contract with the DOE.

Work in the OSMS Project controlled facilities will be coordinated with MCSA and the performing prime DOE contractor to determine which work control process will be used. Each prime DOE contractor remains accountable for employees and actions performed by those employees, including occupational injuries or illnesses of that contractor's employees.

MCSA may also choose to subcontract to other contractors (including other Site DOE Prime Contractors as well as construction/specialty subcontractors) to perform a specified scope of work. In each case, an agreement will be established. Subcontracted work in MCSA-controlled facilities will be subject to the OSMS Project work control processes. MCSA will develop work packages or procedures for the work, or review and approve the work packages or procedures used by the subcontracted DOE prime contractor.

Given the complexity of working with other contractors and subcontractors on multiple sites, if OSMS Project workers are exposed to a hazard, it will promptly correct the hazard if it has the authority to do so or remove its workers from the exposure in a timely manner to adequately protect our employees, and will promptly notify the contractor with the responsibility to correct the hazard.

MCSA will contact senior management of any affected contractor when an event occurs that may affect their operations.

MCSA will ensure that all of its subcontractors and unescorted visitors are trained to understand the limitations of the work control process as defined in the Work Control Procedures . However, certain support companies who may perform work in areas controlled by the OSMS Project such as utility providers, vendors, and suppliers as defined in DOE Guide 440.1-1B, Change 2, *Worker Safety and Health Program for DOE* (Including the National Nuclear Security Administration) *Federal and Contractor Employees* Section 2.3 Contractors, are exempt from the requirements of 10 CFR 851 and the MCSA WSHP.

These utility providers, suppliers, and vendors will adhere to Occupational Safety and Health Administration regulations as defined in 29 CFR 1910 and/or 1926, as applicable. MCSA will coordinate the 10 CFR 851 exempt company's entry onto the OSMS Project's controlled areas, provide them a point-of-contact/escort while in OSMS Project controlled areas, as well as Site General Employee Training (GET). However, the exempt companies will not be required to submit their own WSHP nor adhere to MCSA.'

MCSA will identify which companies fall under the 10 CFR 851 exemptions and remain vigilant to ensure that their work scope does not change. If it does change, and they become subject to the requirements of 10 CFR 851, then the company will be notified, and they will be controlled as identified elsewhere in this WSHP.

5.6 Worker Safety and Health Program

5.6.1 Management Responsibilities

5.6.1.1 Place of Employment Free of Recognized Hazards

The 10 CFR 851, Worker Safety and Health Program, requires MCSA and its subcontractors to provide a place of employment that is free from recognized hazards. This provision is addressed through this program and the identified safety policies.

5.6.1.2 Policies, Goals, and Objectives

MCSA strives to fulfill the commitment to providing a safe and healthy workplace to its employees and subcontractors through the establishment of a project-wide ES&H Policy. This policy serves as the guiding principles that provide overall direction for the company concerning worker protection and the creation, measurement, and refinement of goals and objectives that contribute to the continuous improvement of worker safety and health. The MCSA ES&H Policy establishes high-level commitments to worker safety and health on the Project. The ES&H commitments set forth in this WSHP are put into practice through the establishment of plans and procedures that ensure compliance with 10 CFR 851.

5.6.1.3 Integrated Safety Management System

The approach to integrating ES&H and quality requirements into the processes for planning and conducting work on the Project is conveyed in the Integrated Safety Management System Plans. See Section 6 for additional information.

5.6.1.4 Qualified Worker Protection Staff

MCSA seeks to attract, hire, develop, and retain (i.e., "use") qualified worker safety and health staff (e.g., a certified industrial hygienist, or safety professional) to direct and manage the program, and assist project management and line organizations in meeting worker safety and health goals and objectives. MCSA will evaluate the hiring of certified professionals and management for positions to ensure the quality of the WSHP implementation, as applicable. Although not all staff members who support the WSHP possess professional certifications, all have been selected for their knowledge, experience, and ability to provide outstanding safety and health support to the Project.

OSMS personnel are hired in accordance with the appropriate identified Human Resources Policy Manual, and Training and Qualification procedures.

Subcontractors shall designate, in accordance with appropriate contract documents qualified personnel, competent personnel, or other subject matter experts to perform worker protection functions as required by the contracted work scope. Subcontractor personnel in the worker protection roles must have their resumes approved prior to being allowed to fulfill those functions.

5.6.1.5 Accountability

MCSA's line management is responsible for safety. However, line management must be able to rely upon skilled and readily available support when implementing the WSHP. MCSA holds management, staff, and subcontractors accountable for worker safety and health and each has a significant role in implementing this program. It is MCSA's expectation that employees and subcontractors will use specified work controls to ensure work is planned to a level that is commensurate with the complexity of the task and that ensures safe work performance. MCSA holds employees accountable for adherence to worker safety and health requirements including proper use of prescribed hazard controls. Management communicates expectations of individual roles and responsibilities through new hire orientation, review of work control documents, and observation of daily work activities. These expectations form the basis of employee goals and performance evaluations.

The Human Resources Policy Manuals establish the expectations for each employee and his or her supervisor to form an understanding regarding performance expectations based on the employee's roles and responsibilities. Roles define the functions that individuals play in the organization. Responsibilities describe the obligation to do the work required to ensure initiation and/or implementation and/or completion of an activity. Accountabilities state that personnel will be held accountable for delivering specific results for fulfilling a responsibility for which they have the authority to act. See Section 8 for additional information concerning roles and responsibilities as they pertain to the WSHP.

Performance goals and appraisals communicate management and staff responsibilities for safety. However, it is recognized that technical expertise in ES&H disciplines such as industrial hygiene, radiological control, and occupational safety is required to achieve excellent performance. For that reason, qualified ES&H professionals support line management in work planning and verify that work is performed safely. Other ES&H professionals provide an independent overview of operations.

Organizations performing potentially hazardous work have field-deployed ES&H staff assigned to operations. This staff is available to help with activity planning, hazard analysis, work package and procedure development, address questions or concerns raised by managers or staff, and to help with the performance of management self-assessments.

Similarly, worker protection performance goals and objectives for subcontractors are established and contained in contract documents. Subcontractors are held accountable for worker protection performance through contract provisions that include the option to remove subcontractors' employees or termination of the subcontract.

5.6.1.6 Worker Involvement

Worker involvement is a key component to a successful WSHP. Worker involvement, as applicable, occurs for each phase of the Project on an ongoing basis.

MCSA implements enhanced worker involvement through our management philosophy of Responsible Empowerment. Responsible Empowerment is defined as having the authority to allocate resources and control how work is done to achieve the desired results. Responsible Empowerment of all employees, including subcontractors, is the cornerstone of Project success. For Responsible Empowerment to be effective, MCSA must establish individual employee

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accountability. Employee recognition and acceptance of the philosophy for Responsible Empowerment is facilitated through management approaches and written procedures.

Hazard Analysis is an example of a program that requires worker involvement. MCSA utilizes prejob briefings as identified in the Hazard Analysis procedures to provide a mechanism to involve workers in the development of the worker safety and health program goals, objectives, and performance measures, as well as the identification and control of hazards in the workplace.

MCSA has established a joint United Steel Workers (USW) and Management Safety Committee, which convenes routinely to discuss and review issues relating to safety. This meeting is also open to the construction subcontractors who are on site during the meetings. The status of open safety suggestions is reviewed at the meeting.

5.6.1.7 Labor Organizations

MCSA will provide copies of the DOE approved updated WSHP to the appropriate labor organizations. MCSA will also make copies available through the Controlled Document Index (CDI) to all employees.

Upon request from an affected labor organization, MCSA will bargain concerning implementation of the revised WSHP, consistent with the federal labor laws.

5.6.1.8 Report Events, Hazards, and Concerns

Workers are encouraged to report, without reprisal, job-related injuries and illnesses, incidents, hazards, and concerns. Workers are encouraged to make recommendations about appropriate ways to control hazards. As a core function of the ISMS Program, feedback and improvement processes emphasize assessments and feedback on the adequacy of controls and the continual improvement of the programs and processes that underpin effective ESH&Q management.

Workers have the right to express concerns related to worker safety and health. The commitment to promoting open communication among all staff (employees and non-employees) and to ensuring the prompt identification, reporting and resolution of concerns is embodied in the identified procedures.

These procedures establish the reporting mechanism for employees / subcontractors / visitors, provides a method to report concerns with anonymity, and guarantees a worker's right to report safety matters without reprisal. MCSA encourages and expects employees to raise concerns. Employees are encouraged to work within their line organizations toward resolving concerns.

In addition to the mechanisms provided through the safety concerns documents, workers who believe they are being denied the right to report events, hazards, concerns, or who believe they are subject to reprisals for attempting to exercise these rights may file an employee concern using DOE O 442.1B, *Department of Energy Employee Concerns Program*. Workers are notified of this right to file a concern with DOE through training and the prominent display of the DOE Worker Protection Poster.

5.6.1.9 Regular Communications

MCSA is committed to objectively and fully communicating health and safety information to staff, subcontractor personnel, our customers, applicable stakeholders, and the public.

Communications about workplace safety and health issues are an important aspect of the WSHP. Plan-of-the-day meetings, Safety Meetings, work pauses, pre-job briefings, and monthly reports are utilized to communicate ES&H information to employees.

5.6.1.10 Stop Work Authority

Time-Out/Stop Work Authority granted all employees, subcontractors, visitors, and vendors have suspend/stop-work authority.

All personnel have the right and responsibility to suspend/stop work if they believe that a situation presents imminent danger to themselves, a fellow worker, and/or the environment. Personnel who exercise this right do so without fear of reprisal.

5.6.1.11 Inform Worker Rights

Workers are informed of their safety and health rights and responsibilities through multiple means including training, safety and health information links provided on the MCSA homepage, roles and responsibilities identified in performance goals and appraisals, and the posting of the DOE-designed Worker Protection Poster in the workplace where it is accessible to all workers.

5.6.2 Worker Rights and Responsibilities

Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to the following while on "official time" (e.g., while getting paid their normal pay during their scheduled work shift).:

5.6.2.1 Participate in Activities

MCSA is committed to continuous improvement in gaining participation and engagement of all staff. For a detailed discussion of the efforts, see section 5.6.1.6, *Worker Involvement*.

5.6.2.2 Access to Information

MCSA is committed to communicating worker safety and health information objectively and effectively. All employees have access to the controlled document system and WSHP information is maintained by the ES&H department. MCSA performance metrics are posted on the intranet homepage.

Ensuring worker access to information relevant to the worker safety and health program is recognized as a critical management responsibility.

MCSA guarantees that workers have the right to access:

- 1. DOE safety and health publications.
- 2. The worker safety and health program.
- 3. The standards, controls, and procedures applicable to the covered workplace.
- 4. The safety and health poster that informs the worker of relevant rights and responsibilities.
- 5. Limited information on any recordkeeping log (OSHA Form 300).

6. DOE Form 5484.3, Individual Accident/Incident Report (equivalent to OSHA Form 301) that contains the employee's name as the injured or ill worker.

Authorized representatives may accompany DOE officials assigned to investigate the nature and extent of compliance with worker health and safety requirements. Workers have the right to request and receive results of inspections and accident investigations.

5.6.2.3 Notified when Monitoring Indicates Overexposure

Workers are notified of the results of all monitoring, including when monitoring results indicate a worker may have been overexposed to hazardous materials. This is specifically implemented through the identified Exposure Assessments/Industrial Hygiene Monitoring procedures

5.6.2.4 Observe Monitoring

Employees and subcontractors have the opportunity to observe monitoring or measuring of hazardous materials and have the results of their own exposure monitoring.

5.6.2.5 Representative Accompany Inspection

During any physical inspection conducted by the DOE Director (DOE official to whom the Secretary of Energy assigns authority to investigate the nature and extent of compliance with the requirements of 10 CFR 851.

Currently, this function is assigned to the Director of the Office of Price-Anderson Enforcement in the Office of Environment, Safety and Health, an employee representative is notified of the inspection and is welcome to participate in and accompany the inspection team.

5.6.2.6 Request and Receive Results of Inspections and Investigations

Employees can request and receive the results of inspections and investigations. Employees may contact their manager, supervisor, the ES&H organization, or the QA organization to obtain such information.

5.6.2.7 Express Concerns Related to Worker Safety & Health

MCSA is committed to resolving concerns related to worker safety and health in a timely manner. The programs available to employees are defined in detail in Section 5.6.1.8, *Report Events Hazards and Concerns*.

5.6.2.8 Decline to Perform Assigned Task Based on Risk

All workers have Stop Work Authority. The programs available to employees are defined in detail in Section 5.6.1.10, *Stop Work Authority*.

5.6.2.9 Request for Investigation or Inspection

Any worker or worker representative may request that the DOE Director, as defined in 5.6.2.5 above, initiate an investigation or inspection pertaining to worker safety issues.

5.6.3 Compliance Order

If the Secretary of Energy were to issue a compliance order in accordance with 10 CFR 851.4, MCSA would review the order and immediately take appropriate mitigative actions.

MCSA will review the order and, as allowed by statute, within fifteen (15) calendar days of the issuance of the compliance order, may request that the order be rescinded or modified. MCSA understands that a request to rescind or modify does not stay the effectiveness of the compliance order unless the Secretary of Energy issues an order to that effect.

A copy of the Compliance Order will be prominently posted, once issued, at or near the location where the violation, potential violation, or inconsistency occurred until it is corrected.

6 INTEGRATED SAFETY MANAGEMETN SYSTEM

While programmatically independent, MCSA' WSHP leverages many of the same processes that constitute the ISMS Program established in the identified Integrated Safety Management System Plans. MCSA has established and maintains a safety and health management system founded on the principles of ISMS that promote the company's core values and the principles set forth by the DOE. The principles and functions of the ISMS are used to achieve systematic integration of ES&H protection into management and work practices. The direct involvement of both the workers and management begins at the planning stage, continues through the completion of activities, and is critical to the successful implementation of ISMS. The ISMS is applicable and mandatory for all work performed under the MCSA contract whether the work is self-performed or subcontracted.

MCSA is committed to establishing a safety culture that comprises the elements advocated by the DOE in the principles and functions of the ISMS. MCSA and its subcontractors will implement the ISMS core values and principles by ensuring ES&H issues that affect our workers and subcontractors, the public, or the environment, are our primary concern in work execution.

The ISMS five core functions and eight guiding principles, which are applicable to MCSA, its member organizations, all subcontractor organizations and their sub tiers while performing work in conjunction with the Project. These five core functions and eight guiding principles are:

Five Core Functions

- 1. Define the Scope of Work
- 2. Analyze the Hazards
- 3. Develop and Implement Hazard Controls
- 4. Perform Work within Controls
- 5. Provide Feedback and Continuous Improvement

Eight Guiding Principles

- 1. Line Management Responsibility for Safety
- 2. Clear Roles and Responsibilities
- 3. Competence Commensurate with Responsibilities

- 4. Balanced Priorities
- 5. Identification of Safety Standards and Requirements
- 6. Hazard Controls Tailored to Work Being Performed
- 7. Operations Authorization
- 8. Worker Involvement

The Integrated Safety Management System Plans identify the ISMS process for work performed on the Project. It is also discussed further in Section 7 as it relates to the Safety Management Programs/Nuclear Criticality Safety Programs.

MCSA assesses its safety culture periodically and the results are documented in a Management Assessment. Safety Culture is described in the identified Safety Culture statements.

7 SAFETY MANAGEMENT PROGRAM

DUF6-U-SMP-005, Safety Management Program Descriptions for the DUF6 Conversion Project, provides descriptions of the Safety Management Programs (SMPs) that collectively address the 12 SMP areas addressed in DOE-STD-3009-94, Preparation Guide for U.S. Department of Energy Nonreactor Nuclear Facility Documented Safety Analysis, Change Notice 3. The SMP descriptions are written at a level of detail to satisfy the requirement of DOE-STD-3009-94 for Documented Safety Analysis (DSA) for Hazard Category 2 and 3 nuclear facilities. Additionally various Nuclear Critically Safety Programs/Procedures/Analysis implemented for affected areas and personnel who work in these areas.

The purpose of the SMP/NCS descriptions is to present information that is common to the MCSA managed facilities and support organizations. It is intended to complement the facility-specific DSAs, as applicable.

The Unreviewed Safety Question (USQ) process is used to evaluate changes to SMP/NCS related documents cited in the various SMP/NCS description documents.

The SMP/NCS descriptions have been developed in accordance with the applicable requirements as defined in the MCSA contract with DOE and as an integral part of the MCSA's ISMS Program. The ISMS Programs describe the approach for managing work within the scope of the MCSA contract.

The ISMS description reflects the approach for integrating safety into all aspects of work planning and execution. MCSA applies key processes inherent to the ISMS to measure, maintain, and improve the effectiveness of the ISMS. Standard management processes to ensure competence commensurate with responsibilities, and safety basis upgrades are continuous, ongoing ISMS maintenance processes.

The lessons learned process provides feedback for improving the system. Trending and reporting safety performance objectives, and performance measures and commitments are tools for measuring system effectiveness.

The twelve safety management/NCS program descriptions addressed in include:

- Prevention of Inadvertent Criticality
- Radiation Protection
- Hazardous Material Protection
- Radioactive and Hazardous Waste Management
- Initial Testing In-Service Surveillance and Maintenance
- Operational Safety

- Procedures and Training
- Human Factors
- Quality Assurance
- Emergency Preparedness
- Provisions for Decontamination and Decommissioning
- Management, Organization, and Institutional Safety Provisions

8 ROLES AND RESPONSIBILITIES

Clear definitions of authorities, roles, and responsibilities related to implementation of the WSHP are defined in the following subsections. The MCSA organizational structure is defined, and roles and responsibilities are addressed for management, employees, and subcontractors.

8.1 Organization Structure

The organizational structure of the Project has been established to ensure that roles and responsibilities, and reporting relationships, are clearly recognized and understood. Roles and responsibilities are also identified in specific job descriptions, plans, and procedures. Additionally, roles and responsibilities for implementation of the WSHP are summarized in Table 1. *Roles and Responsibilities for Implementation of WSHP*.

For the purposes of this WSHP, senior managers include the direct reports to the President and Project Manager; ES&H management includes the ESH&Q Manager, the site ES&H Managers; and the Functional and Line Managers include each Plant Manager, first line supervision and subcontractor project and line management. Each line manager is held accountable for the Project's safety performance through their performance goals and review.

Table 1. Roles and Responsibilities for Implementation of WSHP

Position	Job Description/Responsibility
President and Project Manager	 Adopting and ensuring adherence to policies for ES&H performance Maintaining a work environment wherein ES&H performance is recognized as a priority by all associates. Ensuring that qualified individuals are assigned to direct and manage the WSHP program.
	 Establishing written policies, goals, and objectives for the WSHP
Senior Managers	 Building awareness by explaining and communicating its commitment to policies and values relative to ES&H performance
	 Ensuring that activities conform to ES&H related policies, laws, regulations and internal procedural requirements.

Position	Job Description/Responsibility
	 Ensuring organizational learning is embraced to include training, self-assessments, corrective actions, and benchmarking. Continuously improve processes and systems by establishing, tracking, and achieving goals, and incorporating lessons learned
ES& H Management	 Ensuring that ES&H management system requirements/procedures are established, implemented, and maintained in accordance with 10CFR851 including: Ensuring that processes are in place to involve workers and their elected representatives in the development of the worker safety and health program goals, objectives, and performance measures, and in the identification and control of hazards in the workplace. Ensuring that processes are in place to provide workers with information relevant to the worker safety and health program. Ensuring that processes are in place for reporting without reprisal of job-related fatalities, injuries, illnesses, incidents and hazards, and recommendations about appropriate hazard controls. Ensuring that processes are in place to provide for prompt response to upset conditions and abnormal events. Ensuring that processes are in place to provide regular communication with workers about workplace safety and health. Ensuring that processes are in place to provide for worker stop/suspend work authority for safety related reasons without fear of reprisal. Ensuring that processes are in place to inform workers of their rights and responsibilities by appropriate means including adequate posting of the DOE-designated Worker Safety Poster Ensuring that environmental protections are included in work planning. Reporting on ES&H performance to management for review and as a basis for improvement of the system
Functional and Line Managers	 Accepting responsibility and accountability for ES&H performance associated with the work performed under their direct supervision, including: Ensuring that ES&H (including nuclear safety and environmental protection) is integrated into work planning, budgeting, work authorizations/execution, and change control. Ensuring that subordinates operate in strict compliance with the policies and applicable procedural requirements. Making subordinates aware of their roles and responsibilities relative to the ES&H programs, including emergency preparedness and response Determining and ensuring completion of training requirements for their associates

Position	Job Description/Responsibility
	 Controlling processes, including suspension of operations for ES&H reasons Fostering and maintaining a work environment of open communication, mutual respect and teamwork that encourages free and open expressions of ES&H concerns, encourages a
	 questioning attitude and expression of differing technical opinions. Encouraging conservative risk-informed decision making Continuously work to provide a clear, well-maintained, and efficient workplace, free of occupational injuries and illnesses
All Associates (including DOE, MCSA, subcontracted employees, and visitors)	 Adhering to ES&H related policies, values, and requirements by: Accepting accountability, within the scope of their responsibilities, for ES&H performance and maintaining awareness of hazards and controls associated with job assignments. Committing to an incident and injury free workplace Taking responsibility for ES&H improvements Anticipating and initiating action including suspension of operations to preclude any nonconformance relating to the ES&H management system Maintaining a questioning attitude while identifying and reporting any ES&H problems Initiating, recommending, or providing solutions to those problems and verifying the implementation of solutions Controlling further ES&H program activities related to an area of nonconformance until the deficiency or unsatisfactory condition has been corrected. Encouraging and reinforcing the safe behavior of others Following approved work practices and procedures

9 HAZARD IDENTIFICATION AND ASSESSMENT

The identification and assessment of hazards takes place prior to performing a work task. Potential hazards are identified and assessed for the defined work-scope to ensure that appropriate measures are taken to prevent or mitigate potential exposure to the hazards. Consideration is given for interaction between workplace hazards and other hazards such as radiological hazards. Hazards will also be addressed when selecting or purchasing equipment, products, and services.

Each system or component is defined to identify the required work steps and to assess those steps to ensure the identification of potential hazards (e.g., chemical, biological, radiological and safety workplace hazards) and ultimately the appropriate hazard controls for each. As appropriate, worker exposure monitoring is performed utilizing recognized testing methodologies and accredited/certified laboratories as required.

For routine and non-routine OSMS activities, as well as construction type work, hazard identification and assessment will be performed and work control will be performed.

DOE O 151.1E, Comprehensive Emergency Management System, requires that a hazards assessment be performed for a facility/site or activity when at least one hazardous material requiring additional analysis is identified through the hazardous material screening process conducted as part of the Site All-Hazards Survey (AHS). The Order requires special planning and preparedness for DOE emergency management programs that need to respond to emergency events or conditions involving the unplanned release of hazardous materials. The scope and extent are based on facility-specific hazards through a "commensurate with hazards" approach. The first step in the implementation of this approach for hazardous materials is the quantitative analysis of potential emergencies in an Emergency Planning Hazards Assessment (EPHA).

An EPHA involves the application of hazard and accident analysis techniques that provide sufficient detail to assess a spectrum of postulated events or conditions involving the release of hazardous materials and to evaluate the ensuing consequences. Consequence assessment of hazardous material releases provides the means to determine the potential for the need to declare an Alert, Site Area Emergency (SAE), or General Emergency (GE) at the Portsmouth Gaseous Diffusion Plant (PORTS).

9.1 Document Known Chemical Hazards

OSMS Project activities have the potential to expose personnel to chemical and/or physical hazards. The applicable lowest exposure thresholds as outlined in 10 CFR 851 will be used to prevent negative consequences for our workers, the public, and/or the environment. Exposures thresholds will be limited to the extent feasible utilizing the hierarchy of controls with personal protective equipment (PPE) a last resort.

Construction type work may also add known chemical hazards of silica, welding fumes, hexavalent chromium, solvents, paints, etc. Occupational exposures to these hazards will be limited and controlled to below the lowest permissible exposure limit per 10 CFR 851.

9.2 Known Radiological Hazards

OSMS Project activities that have the potential to result in occupational exposure to ionizing radiation will be performed consistently with the provisions identified in the Radiation Protection Program, and its supporting documents. Additionally, OSMS has committed to limiting its environmental impact and radiological releases to the environment in the Environmental Radiation Protection Program. This Program limits the radiation released to the environment and describes the controls implemented to ensure the minimum amount of impact feasible.

10 HAZARD PREVENTION AND ABATEMENT

Once the hazards have been identified and assessed, appropriate preventive or mitigative systems, structures, or components are credited and engineered, and administrative controls are identified and implemented to ensure there is no significant risk to the public, worker, and/or environment.

Controls to mitigate hazards are identified through TSRs and other safety basis documents; regulatory permits, requirements, and agreements; operating procedures; work control documents; hazard analyses and hazard specific permits; and training. Proposed controls shall

be adequate to protect workers, other site personnel, the public, and the environment from the consequences of normal operations, accidents, or releases to the environment. When selecting or purchasing equipment, products, and services, MCSA will address hazards and appropriate controls in accordance with the hazard control hierarchy below.

The selection of hazard controls is based on the following hierarchy:

- 1. Elimination or substitution
- Engineering Controls
- 3. Work Practices and Administrative Controls (procedures, plans, directives, etc.)
- 4. Personal Protective Equipment (safety harness, respirator, etc.)

The DSAs and TSRs are the formal documentation of the hazard's categorization and the safety classification for conversion facilities and the cylinder yards and include a description of the safety management programs used to protect workers and the public (e.g., radiological control and fire protection programs).

Controls are established for both worker and facility safety, and for protecting the public and the environment. ES&H controls for workers are tailored to the specific task/work location. Requirements identified in the TSRs and other safety basis documents and regulatory permits, requirements, and agreements are implemented through equipment/component design, operating procedures, and work control processes. Engineering and administrative controls are put in place where necessary to protect workers, the site, and the environment.

For existing hazards identified in the workplace, MCSA will:

- 1. Prioritize and implement abatement actions according to the risk to workers.
- 2. Implement interim protective measures pending final abatement.
- 3. Protect workers from dangerous safety and health conditions.

10.1 Implementing Hazard Controls

Based on work to be performed, identified hazards, and method of accomplishment, appropriate tools are utilized to define and implement necessary controls. These controls may include one or more of the following:

- Elimination of Hazards
- Task Work Plans
- Activity Work Packages
- ES&H Plans
- Hazard Assessments
- Inspections and Checklist
- PPE

- Waste Management Plans
- Work Instructions
- Safety Basis Documents
- Signs and Postings
- Training
- Procedures

11 SAFETY AND HEALTH HAZARDS

Section J of DOE Contract 89303325DEM000122 contains state and federal regulations and associated permits and authorizations, as well as applicable DOE orders, policies, and standards. MCSA will monitor the DOE online database system Directives Homepage—Alerts for changes (additions/deletions) in DOE orders/directives and federal regulations. In addition, state laws and regulations will be monitored for changes.

When MCSA is notified by the DOE contracting officer of a new or revised DOE order or directive that may be applicable to the MCSA contract, it will review the change for impact as required in the contract. DOE will be advised of the results of this review within the prescribed time limit. DOE will then determine when the contract will be modified to incorporate the change.

The standards identified in 10 CFR 851.23 cannot be construed as relieving MCSA from complying with any additional, specific safety and health requirement that it determines to be necessary to protect the safety and health of workers.

MCSA will follow the applicable OSHA Standards (either 29 CFR 1926 for Construction work as well as 29 CFR 1910 for General Industry) as required by 10 CFR 851 and as applicable to the work scope. MCSA will identify and control all recognized hazards to ensure personnel safety. Control of subcontractors, especially construction subcontractors. This form outlines the requirements for Construction subcontractors identified in 10 CFR 851, Appendix A, Construction Safety.

However, MCSA may, on occasion, notify the DOE PPPO of its intent to perform work which may technically violate an OSHA standard so long as the violation is considered by OSHA to be "de minimis" and adequate hazard controls are established.

Note: De minimis violations are violations of standards which have no direct or immediate relationship to safety or health and shall not be included in citations. MCSA will notify PPPO of its intent to perform work that contains de minimis violations at least 30 days in advance of the proposed work. MCSA would expect the PPPO to 1) object to the proposed de minimis violation, 2) formally approve the proposed de minimis violation, or 3) approve the proposed course of action by lack of response within a 30-day approval window. The inclusion of a process to allow local DOE to approve de minimis OSHA violations, if included in a contractor's WSHP, is described in the 10 CFR 851 Frequently Asked Questions webpage.

12 FUNCTIONAL AREAS

12.1 Construction Safety

The Project periodically performs construction activities such as process alterations, equipment repair, and enhancements. MCSA controls construction activities similarly to routine O&M activities through the established work control/planning and hazards analysis processes. These Projects will be held to the same rigor and compliance to 10 CFR 851 as the operational points of the Project.

Subcontractor requirements as outlined in 10 CFR 851 Appendix A, Construction Safety. Subcontractors must comply with these requirements and are informed of them during the bidding process.

12.2 Fire Protection

The requirements of this function are addressed in the Fire Protection Program Descriptions, and it is implementing documents as referenced in the implementing procedures listed.

The plans define the scope, roles and responsibilities, organizational structure, and requirements for implementing fire protection (FP) program activities. These plans also define the administrative program responsibilities for ensuring that MCSA maintains compliance with fire protection requirements when managing or overseeing subcontractors.

12.3 Explosives Safety

If explosives is required, then the use, storage, or transportation of explosive materials would require coordination with Protective Services and affected safeguards and security organizations in compliance with the applicable requirements of DOE-STD-1212-2019, *Explosives Safety*, 29 CFR 1926, *Subpart U, Blasting and the Use of Explosives*, NFPA 495 *Explosives Materials Code*, and other applicable State or local requirements.

Personnel using powder-activated tools are to be trained and qualified and have on their person a card indicating such. Additionally, the proof-of-qualification will be submitted prior to allowing the "shots" on site. The loads for powder-activated tools are to be kept in a designated container labeled "EXPLOSIVES" and stored remotely in a restricted area.

12.4 Pressure Safety

During design, applicable codes and standards were identified in the systems' requirements documents and the system design description documents. The identified codes and standards were then incorporated into the piping and equipment specifications.

If national consensus codes are not applicable (because of pressure range, vessel geometry, use of special materials, etc.) measures will be implemented to provide equivalent protection and ensure a level of safety greater than or equal to the level of protection afforded by the American Society of Mechanical Engineers (ASME) or applicable state or local code. These measures include the following:

- Design drawings, sketches, and calculations reviewed and approved by a qualified independent design professional (i.e., professional engineer). Documented organizational peer-review is acceptable.
- Qualified personnel used to perform examinations and inspections of materials, in-process fabrications, non-destructive tests, and acceptance tests.
- Documentation, traceability, and accountability maintained for each pressure vessel or system, including descriptions of design, pressure conditions, testing, inspection, operation, repair, and maintenance.

Pressure safety is also implemented during cylinder storage yard surveillance and maintenance activities, through DUF6-X-CYP-2521, *UF6 Field Cold Pressure Check and Minor Valve Repair*, DUF6-C-CYP-2524, *Replacement of Non-Fissile UF6 Cylinder Valves and Plugs*, and DUF6-C-CYP-2426, *Cold Pressure Checks* which direct the monitoring of cylinder pressures prior to changing the valve or plug, and prohibits standing in front of a valve or plug being removed.

MCSA is an Owner-User-Inspection Organization (OUIO). An established inspection program that meets the requirements of the National Board of Boiler and Pressure Vessel Inspectors NB-371, Accreditation of Owner-User Inspection Organizations (OUIO) may be established for MCSA controlled pressure systems, as applicable. All applicable Federal, State, and Local requirements will be complied with as outlined in 10 CFR 851.

12.5 Firearms Safety

OSMS' firearm safety requirements provide for compliance with DOE O 473.2A, *Protective Force Operations*; 10 *CFR* § 851.24; and 10 *CFR Part* 851, Appendix A.5, *Firearms Safety*. MCSA implements the firearm safety requirements through departmental level procedures. These procedures will include conditions for training/qualification, storage/maintenance, and overall issuance/handling. The Program is implemented through procedures listed in this document.

12.6 Industrial Hygiene

MCSA has implemented a comprehensive industrial hygiene program that includes initial or baseline surveys and periodic re-surveys and/or exposure monitoring as appropriate. Application of the graded approach is primarily a function of the magnitude of the hazard that can influence the breadth of the assessment (e.g., larger quantities of material may warrant a wider range of monitoring concerns or new unanticipated hazards may be discovered as work progresses).

The magnitude and interaction of the hazard(s) impact the application of the graded approach by influencing the hazardous material training, the hazard analysis, selection of hazard controls, hazardous material monitoring and the instrumentation selected to obtain process information and to conduct personal exposure monitoring and work area sampling. Industrial hygiene does not only include potentially toxic chemicals but also includes physical agents such as Temperature Extremes. Temperature extremes are controlled through the temperature extremes program. This program includes both heat and cold stressors with prevention being the goal vs. response treatment.

MCSA has outlined the proper work/rest regimes/warming/cooling facilities, fluid intake to include both hydration (e.g., water and electrolyte replacement supplements as needed), proper clothing as well as the "buddy program" to recognize the signs/symptoms of exposures to extreme temperatures.

12.7 Biological Safety

This functional area is not applicable under MCSA's contracted scope of work.

12.8 Occupational Medicine Program

12.8.1 Occupational Health Program

The requirements for an occupational health program are identified in the Occupational Medicine Program.

12.8.2 Occupational Physical Examinations

According to the requirements of 29 CFR 1910, 29 CFR 1926 and 10 CFR 851, site personnel who meet the criteria listed below must have a physical examination conducted by a board-

certified Occupational Medicine physician to determine and document the qualification of the worker to perform work at the Paducah and Portsmouth Sites. Criteria for inclusion in the occupational health program are listed below:

- Employees who are or may be exposed to permissible exposure limits of hazardous substances or health hazards for 30 or more days a year.
- Employees who will perform work on an OSMS operational site for more than 30 days in a 12-month period.
- Employees who wear a respirator for 30 or more days a year
- Members of organized hazardous material teams
- Employees who are injured because of overexposure during a site emergency
- Employees who show symptoms of illness that may have resulted from exposure to hazardous substances.

The examining physician shall document physical evaluations/examinations through written approval.

12.8.3 Additional OSHA Specific Medical Monitoring Requirements

MCSA will adhere to the medical monitoring requirements specified in 29 CFR 1910, *Subpart Z, Toxic and Hazardous Substances*. There may be additional work practices that require implementation of the above-mentioned medical monitoring requirements.

12.8.4 Hearing Conservation

Personnel who may be exposed to noise levels at or above 85 decibels on the A scale (dBA) as an eight-hour time-weighted average without regard to hearing protection devices are required to participate in the hearing conservation program.

12.9 Motor Vehicle Safety

The requirements of this function are addressed in the Vehicle Safety Policies; General Safety Rules procedures; the identified fleet management procedures and identified Powered Industrial Trucks procedures.

12.10 Electrical Safety

Note: The OSMS Project determined the best method of complying with the 10 CFR 851 Technical Amendment was to use the 2018 version of NFPA 70E vs. the 2015 version described in the Amendment. This was determined to be the most conservative and safest means of providing our employees with a workplace free of recognized hazards as well as providing the most value to the DOE.

All electrical work shall be performed in compliance with applicable codes identified in National Fire Protection Association (NFPA) 70 (2017); National Electric Code; NFPA 70E (2018), Standard for Electrical Safety in the Workplace; and OSHA Standards such as 29 CFR 1910 and 29 CFR 1926 as applicable.

12.10.1 Electrical Safety Program

An NFPA 70E (2018) compliant electrical safety program has been developed. MCSA implemented the electrical safety program that incorporates the elements of NFPA 70E for worker protection through the identification of energized hazards equal to or exceeding 50 volts. The program includes documented arc flash analyses of energized sources as well as the allowed employee approach boundaries. An Energized Electrical Work Program also implements various aspects of electrical safety when it is REQUIRED to work in proximity to exposed energized electrical components operation at or above 50 volts to ground.

12.10.2 Lockout/Tagout of Hazardous Energy Source

All work requiring energy isolation will be subject to a Hazardous Energy Control Program (Lockout/Tagout), in order to establish proper isolation from hazardous energy sources.

13 TRAINING AND INFORMATION

The training and qualification process ensures skills for the workforce are identified and developed. The process also documents knowledge, experience, abilities, and competencies of the workforce for key positions requiring qualification. MCSA implements the requirements of DOE Order 426.2A, Change 1, *Personnel Selection, Training, Qualification and Certification Requirements for DOE Nuclear Facilities*. Training and qualification requirements are developed, maintained, and implemented using a graded approach in a standardized, comprehensive manner utilizing the systematic approach to training.

13.1 General Employee Training

MCSA employees, subcontractors, and visitors who spend more than 40 hours a year on a Project site is required initially to complete GET and thereafter, complete a GET refresher session every 24 months or more frequently in those cases deemed appropriate. GET encompasses the primary functions of the various sites and their responsibility to DOE including emergency reporting, general ES&H topics, and basic radiological awareness, and the hazard communication programs.

Personnel who are exempt from taking GET due to their limited time on site must be escorted. The escort is responsible for ensuring that in the event of an emergency, the untrained person knows what actions are necessary.

13.2 New Hire Orientation Briefing

All OSMS Project Personnel shall be required to attend a new hire orientation briefing prior to initially performing work. Subcontractors, including construction subcontractors, will receive initial orientation briefings as well. The briefing shall highlight the information pertinent to the Project, the implementation of ISMS and 10 CFR 851 requirements, and commitment to ES&H.

13.3 Hazard Communication Program and Training

As required in 29 CFR 1910.1200, all personnel having the potential for exposure to hazardous materials shall be trained in the use of the materials, the PPE required, and the emergency procedures associated with the materials they will be expected to use. All personnel shall be

trained, be familiar with this plan, and have access to safety data sheets for all materials with which they work.

13.4 Task/Hazard Specific Training

Employees (including subcontractor employees) who are assigned to a work task shall review applicable work control documents (i.e., hazard assessments, hazard specific permits/work plans, and operating procedures) before their involvement in the work activity to ensure that they are aware of the actual and potential hazards, and the implementation of any control measures identified during the hazard evaluation.

If a change in condition occurs or new information is discovered, the work control document will be revised to address the change, and employees will be trained in the changes.

13.5 Pre-Job Briefing

Pre-job briefings shall be conducted by each supervisor to summarize planned activities, identify new hazards, or clarify any task or project-related issues pertaining to their crew prior to performing new activities. Pre-job briefings will be repeated as necessary to reinforce applicable hazard control measures and relevant work practices. Affected personnel are required to attend pre-job briefings, which may include but are not limited to the following subjects:

- Safety topic/worker safety issues
- Task-specific PPE and respiratory requirements
- Requirements identified by hazard analyses or other work control documentation.
- Procedures and any approved deviations to the prescribed procedures
- Previous lessons learned.
- Opportunity for employee feedback

Workers who miss the pre-job meeting will be given a review of the pertinent information covered during the meeting (including the safety topic) prior to starting the activity.

13.6 Other

Workers who have worker safety and health program responsibilities will receive training and information necessary for them to fulfill those responsibilities.

14 RECORDKEEPING AND REPORTING

Requirements for recordkeeping and reporting are identified in various document control/records procedures as referenced in the various implementing documents.

MCSA shall not conceal nor destroy any information concerning non-compliance or potential noncompliance with the requirements as identified in 10 CFR 851.26(a).

14.1 Hazard Inventory, Assessment, and Control Records

MCSA will establish and maintain complete and accurate records of all hazard inventory information, hazard assessments, exposure assessments, and exposure controls. Hazard inventory, assessment and control records will be maintained in accordance with topic specific implementing documents.

14.2 Event Notification Communication

All personnel shall immediately notify the Plant Shift Superintendent – Paducah or the Emergency Response Organization – Portsmouth of emergency conditions. In addition, employees are also instructed to notify their supervisor about an event or condition that adversely affects or may adversely affect DOE, MCSA, subcontractor personnel, the public, property, environment, or the DOE mission. This could include an employee injury/illness, any accident, incident, near-miss occurrence, accident precursor that could result in bodily injury/illness or damage to equipment and facilities, potential PAAA noncompliance, environmental release or any other unplanned event that may be a violation of a regulatory requirement, or that may be viewed negatively by the public, MCSA, or DOE. In situations where any of the conditions mentioned above occur, the scene may not be changed without prior MCSA concurrence and DOE notification unless it is to mitigate an immediate hazard or stop a spill in progress.

MCSA will ensure that the work-related injuries and illnesses of its workers and subcontractor workers are recorded and reported accurately and consistently with DOE Order 231.1B Chg. 1, *Environmental Safety and Health Reporting*. Any subcontractor involved with the event shall provide applicable information to the MCSA POC as requested.

14.3 Noncompliance Reporting

Worker safety non-compliances are reported in the DOE Nonconformance Tracking System (NTS) based on established reporting thresholds. A non-compliance that is below an NTS reporting threshold (a non-NTS reportable) will be tracked internally. The PAAA Coordinator makes a determination of reportability. Corrective actions are tracked in accordance with the Issues Management Program. Non-compliances are also assessed for reportability in the Occurrence Reporting and Processing System.

The occurrence reporting system requires reporting, tracking, and trending of occurrences, and development of corrective actions involving industrial and/or facility safety, health, property, operations, and/or the environment.

Tracking and trending of accidents, injuries, and illnesses will be performed. Lessons learned are developed based upon operating experiences.

14.4 Periodic Reporting

Performance metrics, including ES&H metrics, are established at the beginning of each fiscal year. Once performance metrics are approved by DOE they are reported in the monthly project report and discussed at the monthly status meeting.

MCSA tracks trends and reports additional lagging and leading performance measures to ensure that safety performance is measured. These additional measures are part of the CAS metrics. The measures may vary year-to-year based on the scope of anticipated project activities, DOE,

and project management needs. CAS metrics are summarized in Quarterly Trending Analysis Reports which are distributed to OSMS Management and DOE.

15 SUPPORTING INFORMATION

15.1 Requirement Reference

Requirement No.	Title
10 CFR 851	Worker Safety and Health Program

15.2 Source References

Source No.	Title
89303325DEM000122	DOE Contract No. 89303325DEM000122
10 CFR 830, Subpart	Nuclear Safety Management - Quality Assurance Requirements
10 CFR 830, Subpart	Safety Basis Requirements
DEAR 952.223-71	Integration of Environment, Safety, and Health into Work Planning and Execution
DOE O 231.1B Chg. 1	Environment, Safety and Health Reporting
DOE O 442.1B	Department of Energy Employee Concerns Program
DOE-STD-3009-94	Preparation Guide for U.S. Department of Energy Nonreactor Nuclear Facility Documented Safety Analysis
NFPA 70	National Electric Code
NFPA 70E	Standard for Electrical Safety in the Workplace
29 CFR 1910	Occupational Safety and Health Standards
29 CFR 1926	Safety and Health Regulations for Construction

NOTE: The most current list of document titles and numbers are maintained/available in the CDI.

15.3 Standards Incorporated by Reference

The following are a list of standards that are incorporated by reference in 10 CFR 851:

NOTE 1: These standards are only applicable to the Project as they relate to the contracted scope of work.

NOTE 2: The DUF6 Project determined that the best method of complying with the 10 CFR 851 Technical Amendment was to use the 2018 version of NFPA 70E vs. the 2015 version described in the Amendment. This was determined to be the most conservative and safest means of providing our employees with a workplace free of recognized hazards as well as providing the most value to the DOE.

Identifier	Title
ANSI Z88.2	American National Standard for Respiratory Protection, (2015)
ANSI Z136.1	Safe Use of Lasers, (2014
ANSI Z49.1	Safety in Welding, Cutting, and Allied Processes, Sections 4.3 and E4.3, (2012)
NFPA 70	National Electric Code (2017)

Identifier	Title
NFPA 70E	Standard for Electrical Safety in the Workplace, (2015)
ACGIH	Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, (2016)
ASME	Boilers and Pressure Vessel Codes, Section I through XII including applicable Code Cases (b)(1)(i) through (xxxii) (2015)
ASME B31	Pressure Vessels (as identified in ASME B31 codes below:)
ASME B31.1	Power Piping, (2016)
ASME B31.3	Process Piping, (2014)
ASME B31.4	Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids, (2016)
ASME B31.5	Refrigeration Piping and heat Transfer Components, (2016)
ASME B31.8	Gas Transmission and Distribution Piping Systems, (2016)
ASME B31.8S	Managing System Integrity of Gas Pipelines, (2014)
ASME B31.9	Building Services Piping, (2014)
ASME B31G	Manual for Determining Remaining Strength of Corroded Pipelines, (2012)

16 ATTACHMENTS

- Attachment A, Current DUF6 Project Document Crosswalk of 10 CFR 851 Requirements
- Attachment B, Crosswalk of the 10 CFR 851 Implementing Procedures for the 4 Currently Approved Paducah/Portsmouth WSHPs Contained in the OSMS Contract

Attachment A. Current DUF6 Project Document Crosswalk of 10 CFR 851 Requirements

Note 1: Please Use the DUF6 Implementing Document Listed in the Right Column Below in Attachment B to Determine the Corresponding Implementing Procedures used by FBP, FRNP, SST, and DUF6 for each 10 CFR 851 Element, as applicable.

Note 2: DUF6 Implementing numbers were used where available. However, due to the new OSMS Scope the DUF6 Project did not have procedures in the areas of Explosives, Firearms, and in some areas of Piping/Pressure Safety. These previously not applicable sections have FRNP and FBP procedure numbers listed for use in the Attachments, as applicable.

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Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.10	General Requirements		
851.10(a)	With respect to a covered workplace for which a contractor is responsible, the contractor must:	Yes	DUF6-POL-048, Safety Culture DUF6-POL-060, DUF6-Fraiserment, Safety
	(1) Provide a place of employment that is free from recognized hazards that are causing or have the potential to cause death or serious physical harm to workers; and		DUF6-POL-060, DUF6 Environment, Safety, and Health Policy
			OSMS-PLN-074, Worker Safety and Health Program – Executive Summary
	(2) Ensure that work is performed in accordance with:		
	(2)(i) All applicable requirements of this part; and		OSMS-PLN-040, Integrated Safety Management System Plan ES&H Policy Statement
	(2)(ii) With the worker safety and health program for that workplace.		DUF6-POL-003, Fire Protection Statement
851.10(b)	The written worker safety and health program must describe how the contractor complies with the:		See Below
	(1) Requirements set forth in Subpart C of this part that are applicable to the hazards associated with the contractor's scope of work; and	Yes	WSHP, general
	(2) Any compliance order issued by the Secretary pursuant to § 851.4.	Yes	WSHP, Section 5.6.3
851.11	Development and Approval of the Worker Safety and Health Program		
851.11(a)	Preparation and submission of worker safety and health program. By February 26, 2007, contractors must submit to the appropriate Head of DOE Field Element for approval a written worker safety and health program that provides the methods for implementing the requirements of Subpart C of this part.	Yes	WSHP OSMS-PLN-040, Integrated Safety Management System Plan

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.11(a)	(1) If a contractor is responsible for more than one covered workplace at a DOE site, the contractor must establish and maintain a single worker safety and health program for the covered workplaces for which the contractor is responsible.	Yes	• WSHP
851.11(a)	(2) If more than one contractor is responsible for covered workplaces, each contractor must:	Yes	WSHP, Section 5.5
851.11(a)	(2)(i) Establish and maintain a worker safety and health program for the workplaces for which the contractor is responsible; and	Yes	WSHP, Section 5.5
851.11(a)	(2)(ii) Coordinate with the other contractors responsible for work at the covered workplaces to ensure that there are clear roles, responsibilities, and procedures to ensure the safety and health of workers at multi-contractor workplaces.	Yes	WSHP, Section 5.5
851.11(a)	(3) The worker safety and health program must describe how the contractor will:		See below
851.11(a)	(3)(i) Comply with the requirements set forth in Subpart C of this part that are applicable to the covered workplace, including the methods for implementing those requirements; and	Yes	WSHP, general Solution Solution OSMS-PLN-040, Integrated Safety Management System Plan
851.11(a)	(3)(ii) Integrate the requirements set forth in Subpart C of this part that are applicable to a covered workplace with other related site-specific worker protection activities and with the integrated safety management system.	Yes	WSHP, general Solution Soluti
851.11(b)	DOE evaluation and approval. The Head of DOE Field Element must complete a review and provide written approval of the contractor's worker safety and health program, within 90 days of receiving the document. The worker safety and health program and any updates are deemed approved 90 days after submission if they are not specifically approved or rejected by DOE earlier.	Yes	The Project submitted its Workers Safety and Health Plan prior to May 25, 2007, initial deadline and has submitted its updates to DOE for review thereafter as required The Project submitted its Workers Safety and Health Plan prior to May 25, 2007, initial deadline and has submitted its updates to
851.11(b)	(1) Beginning May 25, 2007, no work may be performed at a covered workplace unless an approved worker safety and health program is in place for the workplace.	Yes	• NA
851.11(b)	(2) Contractors must send a copy of the approved program to the Assistant Secretary for Environment, Safety and Health.	Yes	NA, will be sent upon approval.
851.11(b)	(3) Contractors must furnish a copy of the approved worker safety and health program, upon written request, to the affected workers or their designated representatives.	Yes	NA will be sent upon approval and request.

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.11(c)	Updates. (1) Contractors must submit an update of the worker safety and health program to the appropriate Head of DOE Field Element, for review and approval whenever a significant change or addition to the program is made, or a change in contractors occurs. (2) Contractors must submit annually to DOE either an updated worker safety and health program for approval or a letter stating that no changes are necessary in the currently approved worker safety and health program. (3) Contactors must incorporate in the worker safety and health program any changes, conditions, or workplace safety and health standards directed by DOE consistent with the requirements of this part and DEAR 970.5204–2, Laws, Regulations and DOE Directives (December 2000) and associated contract clauses.	Yes	WSHP, Introduction
851.11(d)	Labor Organizations. If a contractor employs or supervises workers who are represented for collective bargaining by a labor organization, the contractor must: (1) Give the labor organization timely notice of the development and implementation of the worker safety and health program and any updates thereto; and	Yes	WSHP, Section 5.6.1.7
851.11(d)	(2) Upon timely request, bargain concerning implementation of this part, consistent with the Federal labor laws.	Yes	WSHP, Section 5.6.1.7
851.12	Implementation		
851.12(a)	Contractors must implement the requirements of this part.	Yes	WSHP, Introduction
851.12(b)	Nothing in this part precludes a contractor from taking any additional protective action that is determined to be necessary to protect the safety and health of workers.	Yes	WSHP, Section 11
851.13	Compliance		
851.13(a)	Contractors must achieve compliance with all the requirements of Subpart C of this part, and their approved worker safety and health program no later than May 25, 2007. Contractors may be required to comply contractually with the requirements of this rule before February 9, 2007.	Yes	WSHP, Introduction

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.13(b)	In the event a contractor has established a written safety and health program, an Integrated Safety Management System (ISMS) description pursuant to the DEAR Clause, or an approved Work Smart Standards (WSS) process before the date of issuance of the final rule, the Contractor may use that program, description, or process as the worker safety and health program required by this part if the appropriate Head of the DOE Field Element approves such use on the basis of written documentation provided by the contractor that identifies the specific portions of the program, description, or process, including any additional requirements or implementation methods to be added to the existing program, description, or process, that satisfy the requirements of this part and that provide a workplace as safe and healthful as would be provided by the requirements of this part.	Yes	NA, MCSA developed a WSHP
851.13(c)	Nothing in this part shall be construed to limit or otherwise affect contractual obligations of a contractor to comply with contractual requirements that are not inconsistent with the requirements of this part.	Yes	WSHP, Section 10
851.20	Management Responsibilities and Worker Rights and Responsibilities		
851.20(a)	Management responsibilities. Contractors are responsible for the safety and health of their workforce and must ensure that contractor management at a covered workplace:	Yes	See below
851.20(a)(1)	Establish written policy, goals, and objectives for the worker safety and health program;	Yes	 WSHP, Section 5.6.1.2 OSMS-PLN-040, Integrated Safety Management System Plan ES&H Policy Statement DUF6-POL-003, Fire Protection Statement
851.20(a)(2)	Use qualified worker safety and health staff (e.g., a certified industrial hygienist, or safety professional) to direct and manage the program;	Yes	 WSHP, Section 5.6.1.4 DUF6-U-TRN-0001, Training and Qualification ESH Special Terms and Conditions, DUF6 Form 9063, regarding Subcontractor ESH Representative.
851.20(a)(3)	Assign worker safety and health program responsibilities, evaluate personnel performance, and hold personnel accountable for worker safety and health performance;	Yes	 WSHP, Section 5.6.1.5 OSMS-PLN-040, Integrated Safety Management System Plan DUF6-POL-087, Human Resources Policy Manual ESH Special Terms and Conditions, DUF6 Form 9063

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.20(a)(4)	Provide mechanisms to involve workers and their elected representatives in the development of the worker safety and health program goals, objectives, and performance measures and in the identification and control of hazards in the workplace;	Yes	 WSHP, Section 5.6.1.6 OSMS-PLN-040, Integrated Safety Management System Plan DUF6-U-SHP-0211, Hazard Analysis
851.20(a)(5)	Provide workers with access to information relevant to the worker safety and health program;	Yes	WSHP, Section 5.6.2.2 CDI does and will contain information relevant to the WSHP
851.20(a)(6)	Establish procedures for workers to report without reprisal job-related fatalities, injuries, illnesses, incidents, and hazards and make recommendations about appropriate ways to control those hazards;	Yes	 WSHP, Section 5.6.1.8 OSMS-PLN-040, Integrated Safety Management System Plan DUF6-U-SHP-0101, Safety First Program DUF6-U-SHP-0102, General Safety Rules
851.20(a)(7)	Provide for prompt response to such reports and recommendations;	Yes	WSHP, Section 5.6.1.8DUF6-U-SHP-0101, Safety First Program
851.20(a)(8)	Provide for regular communication with workers about workplace safety and health matters;	Yes	 WSHP, Section 5.6.1.9 DUF6-U-SHP-0211, Hazard Analysis, DUF6-POL-087, Human Resources Policy Manual DUF6-POL-048, Safety Culture OSMS-PLN-001, Project Management Plan, requires monthly progress reports to DOE that include ES&H. Report is available through CDI.
851.20(a)(9)	Establish procedures to permit workers to stop work or decline to perform an assigned task because of a reasonable belief that the task poses an imminent risk of death, serious physical harm, or other serious hazard to workers, in circumstances where the workers believe there is insufficient time to utilize normal hazard reporting and abatement procedures; and	Yes	 WSHP, Section 5.6.1.10 DUF6-U-QAP-0022, Time-Out/Stop Work
851.20(a)(10)	Inform workers of their rights and responsibility by appropriate means, including posting the DOE-designated Worker Protection Poster in the workplace where it is accessible to all workers.	Yes	 Job Site Posters and Initial Orientation WSHP, Section 5.6.1.11 DUF6-POL-087, Human Resources Policy Manual
851.20(b)	Worker rights and responsibilities. Workers must comply with the requirements of this part, including the worker safety and health program, which are applicable to their own actions and conduct. Workers at a covered workplace have the right, without reprisal, to:	Yes	WSHP, Section 5.6.2

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.20(b)(1)	Participate in activities described in this section on official time.	Yes	WSHP, Section 5.6.2
851.20(b)(2)	Have access to: (i) DOE safety and health publications; (ii) The worker safety and health program for the workplace; (iii) The standards, controls, and procedures applicable to the covered workplace; (iv) The safety and health poster that informs the worker of relevant rights and responsibilities; Limited information on any recordkeeping log (OSHA Form 300). Access is subject to Freedom of Information Act	Yes	WSHP, Section 5.6.2.2
	requirements and restrictions; and (v) The DOE Form 5484.3 (the DOE equivalent to OSHA Form 301) that contains the employee's name as the injured or ill worker;		
851.20(b)(3)	Be notified when monitoring results indicate the worker was overexposed to hazardous materials;	Yes	 WSHP, Section 5.6.2.3 DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)
851.20(b)(4)	Observe monitoring or measuring of hazardous agents and have the results of their own exposure monitoring;	Yes	WSHP, Section 5.6.2.4 DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)
851.20(b)(5)	Have a representative authorized by employees accompany the Director or his authorized personnel during the physical inspection of the workplace for the purpose of aiding the inspection. When no authorized employee representative is available, the Director or his authorized representative must consult, as appropriate, with employees on matters of worker safety and health;	Yes	WSHP, Section 5.6.2.5
851.20(b)(6)	Request and receive results of inspections and accident investigations;	Yes	WSHP, Section 5.6.2.6DUF6-U-SHP-0211, Hazard Analysis
851.20(b)(7)	Express concerns related to worker safety and health;	Yes	 WSHP, Section 5.6.2.7 DUF6-POL-060, Environment, Safety, and Health Policy DUF6-POL-048, Safety Culture OSMS-PLN-040, Integrated Safety Management System Plan DUF6-U-SHP-0101, Safety First Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.20(b)(8)	Decline to perform an assigned task because of a reasonable belief that, under the circumstances, the task poses an imminent risk of death or serious physical harm to the worker coupled with a reasonable belief that there is insufficient time to seek effective redress through normal hazard reporting and abatement procedures; and	Yes	 WSHP, Sections 5.6.1.10 and 5.6.2.8 OSMS-PLN-040, Integrated Safety Management System Plan DUF6-U-SHP-0102, General Safety Rules DUF6-U-SHP-0211, Hazard Analysis
851.20(b)(9)	Stop work when the worker discovers employee exposures to imminently dangerous conditions or other serious hazards; provided that any stop work authority must be exercised in a justifiable and responsible manner in accordance with procedures established in the approved worker safety and health program.	Yes	 WSHP, Sections 5.6.1.10 and 5.6.2.8 DUF6-U-QAP-0022, Time-Out/Stop Work
851.21	Hazard Identification and Assessment		
851.21(a)	Contractors must establish procedures to identify existing and potential workplace hazards and assess the risk of associated workers' injury and illness. Procedures must include methods to:	Yes	 WSHP, Section 9 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0015, Technical Procedure Development
851.21(a)(1)	Assess worker exposure to chemical, physical, biological, or safety workplace hazards through appropriate workplace monitoring;	Yes	 WSHP, Section 9 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)
851.21(a)(2)	Document assessment for chemical, physical, biological, and safety workplace hazards using recognized exposure assessment and testing methodologies and using of accredited and certified laboratories;	Yes	 WSHP, Section 9 DUF6-U-SHP-0211 Hazard Analysis DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)
851.21(a)(3)	Record observations, testing and monitoring results;	Yes	 WSHP, Section 9 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)
851.21(a)(4)	Analyze designs of new facilities and modifications to existing facilities and equipment for potential workplace hazards;	Yes	WSHP, Section 9
851.21(a)(5)	Evaluate operations, procedures, and facilities to identify workplace hazards	Yes	 WSHP, Section 9 DUF6-C-DSA-001, Paducah DUF6 Conversion Facility Documented Safety Analysis, Paducah, Kentucky DUF6-X-DSA-001, Portsmouth DUF6 Conversion Facility Documented Safety Analysis, Piketon, Ohio DUF6-C-F-FHA-001, Paducah DUF6 Conversion Facility Combined Fire Hazards

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
			 Analysis and Fire Protection Facility Assessment DUF6-X-F-FHA-001, Portsmouth DUF6 Conversion Facility Combined Fire Hazards Analysis and Fire Protection Facility Assessment DUF6-X/C-SHP-0307, Development/Maintenance of Hazards Surveys, Emergency Planning Hazards Assessments, and Emergency Action Levels CP2-EP-3000, Emergency Planning Hazards Assessment for the U.S. Department of Energy Paducah, Kentucky Site for the DOE C-745 Cylinder Storage Yards FBP-EM-EPHA-00007, FLUOR-BWXT Portsmouth LLC Emergency Planning Hazards Assessment for the Decontamination and Decommissioning, Infrastructure Support Services, and Piketon DUF6 Conversion Facilities at the Portsmouth Gaseous Diffusion Plant DUF6-U-SHP-0211, Hazard Analysis
851.21(a)(6)	Perform routine job activity-level hazard analyses;	Yes	WSHP, Section 9DUF6-U-SHP-0211, Hazard Analysis
851.21(a)(7)	Review site safety and health experience information; and	Yes	 WSHP, Section 9 DUF6-U-CLP-0016, Occurrence Notification and Reporting DUF6-U-CLP-0017, Operating Experience Program
851.21(a)(8)	Consider interaction between workplace hazards and other hazards such as radiological hazards.	Yes	 WSHP, Section 9 DUF6-U-GFP-0108, Control of Work DUF6-U-SHP-0211, Hazard Analysis OSMS-PLN-216, Environmental Radiation Protection Program OSMS-PLN-007, Radiation Protection Program
851.21(b)	Contractors must submit to the Head of DOE Field Element a list of closure facility hazards and the established controls within 90 days after identifying such hazards.	No	• NA

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
	The Head of DOE Field Element, with concurrence by the Cognizant Secretarial Officer, has 90 days to accept the closure facility hazard controls or direct additional actions to either: (1) Achieve technical compliance; or (2) Provide additional controls to protect the workers.	No	• NA
851.21(c)	Contractors must perform the activities identified in paragraph (a) of this section, initially to obtain baseline information and as often thereafter as necessary to ensure compliance with the requirements in this Subpart.	Yes	 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work
851.22	Hazard Prevention and Abatement		
851.22(a)	Contractors must establish and implement a hazard prevention and abatement process to ensure that all identified and potential hazards are prevented or abated in a timely manner.	Yes	 WSHP, Section 10 DUF6-PLN-040, Integrated Safety Managemer System Plan DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work DUF6-X-DSA-001, Portsmouth DUF6 Conversion Facility Documented Safety Analysis, Piketon, Ohio DUF6-C-F-FHA-001, Paducah DUF6 Conversion Facility Combined Fire Hazards Analysis and Fire Protection Facility Assessment DUF6-X-F-FHA-001, Portsmouth DUF6 Conversion Facility Combined Fire Hazards Analysis and Fire Protection Engineering Assessment DUF6-X/C-SHP-0307, Development/Maintenance of Hazards Surveys Emergency Planning Hazards Assessments, and Emergency Action Levels CP2-EP-3000, Emergency Planning Hazards Assessment for the U.S. Department of Energy Paducah, Kentucky Site for the DOE C-745 Cylinder Storage Yards FBP-EM-EPHA-00007, FLUOR-BWXT Portsmouth LLC Emergency Planning Hazards Assessment for the Decontamination and Decommissioning, Infrastructure Support Services, and Piketon DUF6 Conversion Facilities at the Portsmouth Gaseous Diffusion Plant

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
			DUF6-C-TSR-004, Technical Safety Requirements for the DUF6 Conversion Projec Cylinder Storage Yards, Paducah Kentucky
851.22(a)(1)	For hazards identified either in the facility design or during the development of procedures, controls must be incorporated in the appropriate facility design or procedure.	Yes	 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0015, Technical Procedure Development
851.22(a)(2)	For existing hazards identified in the workplace, contractors must: (iii) Prioritize and implement abatement actions according to the risk to workers; (iv) Implement interim protective measures pending final abatement; and (v) Protect workers from dangerous safety and health conditions;	Yes	 WSHP, Section 10 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work
851.22(b)	Contractors must select hazard controls based on the following hierarchy: (1) Elimination or substitution of the hazards where feasible and appropriate; (2) Engineering controls where feasible and appropriate; (3) Work practices and administrative controls that limit worker exposures; and (4) Personal protective equipment.	Yes	 WSHP, Section 10 DUF6-POL-060, Environment, Safety, and Health Policy DUF6-POL-048, Safety Culture OSMS-PLN-040, Integrated Safety Management System Plan
851.22(c)	Contractors must address hazards when selecting or purchasing equipment, products, and services.	Yes	 WSHP, Section 10 DUF6-U-PRP-0001, Purchasing Procedure DUF6-U-SHP-0601, Hazard Communications OSMS-PLN-040, Integrated Safety Management System Plan
851.23	Safety and Health Standards		
851.23(a)	Contractors must comply with the following safety and health standards that are applicable to the hazards at their covered workplace:	Yes	WSHP, Section 11DOE Contract No. 89303325DEM000122
851.23(a)(1)	Title 10 Code of Federal Regulations (CFR) 850, "Chronic Beryllium Disease Prevention Program."	Yes	 MCSA has developed a Beryllium Program due to OSMS Contract requirements which may include assumption of beryllium affected facilities. Additionally, MCSA may have employees addressed by 10 CFR 850 which implements the Beryllium Program.
851.23(a)(2)	Title 29 CFR, Parts 1904.4 through 1904.11, 1904.29 through 1904.33 and 1904.46, "Recording and Reporting Occupational Injuries and Illnesses."	Yes	WSHP, Section 11 DUF6-U-SHP-0301, Accident/Incident Reporting

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.23(a)(3)	Title 29 CFR, Part 1910, "Occupational Safety and Health Standards," excluding 29 CFR 1910.1096, "Ionizing Radiation.", and 29 CFR 1910.1024, "Beryllium"	Yes	OSMS-PLN-040, Integrated Safety Management System Plan
851.23(a)(4)	29 CFR 1915, "Shipyard Employment."	No	Standard is not applicable to MCSA
851.23(a)(5)	29 CFR 1917, "Marine Terminals."	No	Standard is not applicable to MCSA
851.23(a)(6)	29 CFR 1918, "Safety and Health Regulations for Longshoring."	No	Standard is not applicable to MCSA
851.23(a)(7)	29 CFR 1926, "Safety and Health Regulations for Construction."	Yes	WSHP
851.23(a)(8)	29 CFR 1928, "Occupational Safety and Health Standards for Agriculture."	No	Standard is not applicable to MCSA.
851.23(a)(9)	American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices," (2016) (incorporated by reference, see § 851.27) when the ACGIH Threshold Limit Values (TLVs) are lower (more protective) than permissible exposure limits in 29 CFR 1910. When the ACGIH TLVs are used as exposure limits, contractors must nonetheless comply with the other provisions of any applicable expanded health standard found in 29 CFR 1910.	Yes	 WSHP, Section 15.3 DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)
851.23(a)(10)	American National Standards Institute (ANSI) Z88.2, "American National Standard for Respiratory Protection," (2015) (incorporated by reference, see § 851.27).	Yes	 WSHP, Section 15.3 DUF6-U-SHP-0504, Respiratory Protection Program
851.23(a)(11)	ANSI Z136.1, "Safe Use of Lasers," (2014) (incorporated by reference, see § 851.27).	Yes	DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)
851.23(a) (12)	ANSI Z49.1, "Safety in Welding, Cutting and Allied Processes" section 4.3 and E4.3 (2012) (incorporated by reference, see § 851.27).	Yes	DUF6-U-SHP-0801, Hot Work
851.23(a)(13)	National Fire Protection Association (NFPA) 70, "National Electrical Code," (2017) (incorporated by reference, see § 851.27).	Yes	In Electrical Installation Specification
851.23(a)(14)	NFPA 70E, "Standard for Electrical Safety in the Workplace," (2015) (incorporated by reference, see § 851.27). Note : DUF6 Project is upgrading to NFPA 70E (2018) as a best management practice to maximize efficiency and value to the DOE.	Yes	DUF6-U-SHP-0214, Electrical Safety
851.23(b)	Nothing in this part must be construed as relieving a contractor from complying with any additional specific safety and health requirement that it determines to be necessary to protect the safety and health of workers.	Yes	WSHP, Section 11

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.24	Functional Areas		
851.24(a)	Contractors must have a structured approach to their worker safety and health program which at a minimum, include provisions for the following applicable functional areas in their worker safety and health program: construction safety; fire protection; firearms safety; explosives safety; pressure safety; electrical safety; industrial hygiene; occupational medicine; biological safety; and motor vehicle safety.	Yes	WSHP, Section 12
851.24(b)	In implementing the structured approach required by paragraph (a) of this section, contractors must comply with the applicable standards and provisions in Appendix A of this part, entitled "Worker Safety and Health Functional Areas."	Yes	WSHP, Section 12
851.25	Training Information		
851.25(a)	Contractors must develop and implement a worker safety and health training and information program to ensure that all workers exposed or potentially exposed to hazards are provided with the training and information on that hazard in order to perform their duties in a safe and healthful manner.	Yes	 WSHP, Section 13 DUF6-PLN-027, Personnel Selection, Training, and Qualification Management Plan DUF6-U-TRN-0001, Training and Qualification DUF6-U-SHP-0601, Hazard Communications
851.25(b)	The contractor must provide:	Yes	See below:
851.25(b)(1)	Training and information for new workers, before or at the time of initial assignment to a job involving exposure to a hazard;	Yes	 WSHP, Sections 13.2, 13.3, and 13.4 DUF6-U-TRN-0001, Training and Qualification DUF6-U-SHP-0211, Hazard Analysis
851.25(b)(2)	Periodic training as often as necessary to ensure that workers are adequately trained and informed; and	Yes	 WSHP, Sections 13.2, 13.3, and 13.4 DUF6-U-TRN-0001, Training and Qualification DUF6-U-SHP-0211, Hazard Analysis
851.25(b)(3)	Additional training when safety and health information or a change in workplace conditions indicates that a new or increased hazard exists.	Yes	 WSHP, Sections 13.2, 13.3, and 13.4 DUF6-U-SHP-0211, Hazard Analysis
851.25(c)	Contractors must provide training and information to workers who have worker safety and health program responsibilities that is necessary for them to carry out those responsibilities.	Yes	 WSHP, Section 13.6 DUF6-PLN-027, Personnel Selection, Training, and Qualification Plan DUF6-U-TRN-0001, Training and Qualification
851.26	Recordkeeping and Reporting		
851.26(a)	Recordkeeping. Contractors must:		See below:

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.26(a)(1)	Establish and maintain complete and accurate records of all hazard inventory information, hazard assessments, exposure measurements, and exposure controls.	Yes	 WSHP, Sections 14.1 DUF6-U-DMP-0002, Records Management Procedure DUF6-U-SHP-0211, Hazard Analysis
851.26(a)(2)	Ensure that the work-related injuries and illnesses of its workers and subcontractor workers are recorded and reported accurately and consistent with DOE reporting directives.	Yes	 WSHP, Sections 14.2 DUF6-U-SHP-0301, Accident/Incident Reporting
851.26(a)(3)	Comply with the applicable to occupational injury and illness recordkeeping and reporting workplace safety and health standards in § 851.23 of this part at their site, unless otherwise directed by DOE.	Yes	WSHP, Sections 14.2 DUF6-U-SHP-0301, Accident/Incident Reporting
851.26(a)(4)	Not conceal nor destroy any information concerning non-compliance or potential noncompliance with the requirements of this part.	Yes	WSHP, Section 14
851.26(b)	Reporting and investigation. Contractors must:		See below:
851.26(b)(1)	Report and investigate accidents, injuries, and illnesses; and	Yes	 WSHP, Sections 14.2 DUF6-U-SHP-0301, Accident/Incident Reporting
851.26(b)(2)	Analyze related data for trends and lessons learned.	Yes	 WSHP, Sections 14.3 DUF6-U-CPL-0017, Operating Experience Program DUF6-U-CPL-0019, Trending DUF6-U-CPL-0018, Root Cause Analysis
851.27	Reference Sources		
851.27(a)	Materials incorporated by reference. (a) General. We incorporate by reference the following standards into part 851. The material has been approved for incorporation by the Director of the Federal Register under 5 U.S.C. 552(a) and 1 CFR part 51. Any subsequent amendment to a standard by the standard-setting organization will not affect the DOE regulations unless and until amended by DOE. Material is incorporated as it exists on the date of the approval. To use a subsequent amendment to a standard, DOE must publish a document in the Federal Register and the material must be available to the public. All approved material is available for inspection at the U.S. Department of Energy, Office of Environment, Health, Safety and Security, Office of Worker Safety	Yes	• WSHP,

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
	and Health Policy, 1000 Independence Ave. SW, Washington, DC 20585. 301-903-6061. The material is available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030 or go to: www.archives.gov/federal-register/cfr/ibr-locations.html . Standards can be obtained from the sources listed below.		
851.27(b)	b) ACGIH. American Conference of Governmental Industrial Hygienist, 1330 Kemper Meadow Drive, Cincinnati, OH 45240. Telephone number: 513–742–2020, or go to: http://www.acgih.org.		See below
851.27(b)(1)	(1) ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, 2016; IBR approved for § 851.23.	Yes	 WSHP, Sections 15.3 DUF6-U-SHP-0504, Respiratory Protection Program DUF6-U-SHP-0505, Exposure Assessment (Non-Radiological)
851.27(b)	(1) American National Standards Institute (ANSI) Z88.2, "American National Standard Practices for Respiratory Protection," (1992).	Yes	 WSHP, Sections 15.3 DUF6-U-SHP-0504, Respiratory Protection Program
851.27(b)	(2) ANSI Z136.1, "Safe Use of Lasers," (2000).	Yes	WSHP, Sections 15.3
851.27(b)	(3) ANSI Z49.1, "Safety in Welding, Cutting and Allied Processes," (1999).	Yes	WSHP, Sections 15.3DUF6-SHP-0801, Hot Work
851.27(b)	(4) National Fire Protection Association (NFPA) 70, "National Electrical Code," (2017).	Yes	WSHP, Sections 15.3In Electrical Installation Specification
851.27(b)	(5) NFPA 70E, "Electrical Safety in the Workplace," (2018).	Yes	WSHP, Sections 15.3DUF6-U-SHP-0214, Electrical Safety
851.27(b)	(6) American Conference of Governmental Industrial Hygienists, "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices," (2016).	Yes	 WSHP, Sections 15.3 DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)
851.27(b)(2)	(2) Reserved	Yes	• NA
851.27(c)	(c) ANSI. American National Standards Institute, 1899 L Street NW, 11th Floor, Washington, DC 20036. Telephone number: 202–293–8020, or go to: http://www.ansi.org.	Yes	• WSHP
851.27(c)(1)	(1) ANSI Z49.1–2012, American National Standard Safety in Welding, Cutting and Allied Processes, sections 4.3 and E4.3, ANSI approved March 9, 2012, IBR approved for § 851.23.	Yes	WSHP, Sections 15.3DUF6-SHP-0801, Hot Work

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.27(c)(2)	(2) ANSI/ASSE Z88.2–2015, American National Standard Practices for Respiratory Protection, ANSI approved March 4, 2015, IBR approved for § 851.23.	Yes	 WSHP, Sections 15.3 DUF6-U-SHP-0504, Respiratory Protection Program DUF6-U-SHP-0501, Occupational Medicine Program
851.27(c)(3)	(3) ANSI Z136.1–2014, American National Standard for Safe Use of Lasers, ANSI approved December 10, 2013, IBR approved for § 851.23.	Yes	DUF6-U-SHP-0211, Hazard Analysis including Form DUF6-U-SHP-0211-F03, Hazard Controls Identification Checklist
851.27(d)	(d) ASME. American Society of Mechanical Engineers, P.O. Box 2300, Fairfield, NJ 07007. Telephone: 800–843–2763, or go to: http://www.asme.org .	Yes	See Below
851.27(d)(1)	(d)(1) ASME Boilers and Pressure Vessel Codes (BPVC) as follows:	Yes	DUF6 will be operators only not designers.
851.27(d)(1)(i)	(i) BPVC.I-2015, Section I-Rules for Construction of Power Boilers, 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(ii)	(ii) BPVC.II.A-2015, Section II-Materials, Part A-Ferrous Material Specifications (Beginning to SA-450), 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(iii)	(iii) BPVC.II.A-2015, Section II-Materials, Part A-Ferrous Material Specifications (SA-451 to End), 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(iv)	(iv) BPVC.II.B-2015, Section II-Materials, Part B-Nonferrous Material Specifications, 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(v)	(v) BPVC.II.C-2015, Section II-Materials, Part C-Specification for Welding Rods; Electrodes, and Filler Metals; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.27(d)(1)(vi)	(vi) BPVC.II.D.C-2015, Section II-Materials, Part D-Properties (Customary); 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(vii)	(vii) BPVC.II.D.M-2015, Section II- Materials, Part D-Properties (Metric); 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(viii)	(viii) BPVC.III.A–2015, Section III - Rules for Construction of Nuclear Facility Components, Appendices; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(ix)	(ix) BPVC.III.1.NB–2015, Section III - Rules for Construction of Nuclear Facility Components, Division I - Subsection NB, Class 1 Components; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(x)	(x) BPVC.III.1.NC–2015, Section III - Rules for Construction of Nuclear Facility Components, Division I - Subsection NC, Class 2 Components; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xi)	(xi) BPVC.III.1.ND–2015, Section III - Rules for Construction of Nuclear Facility Components, Division I - Subsection ND, Class 3 Components; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; (8)(vii) B31.8S—2001—Managing System Integrity of Gas Pipelines;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xii)	(xii) BPVC.III.1.NE–2015, Section III- Rules for Construction of Nuclear Facility Components, Division I - Subsection NE, Class MC Components; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xiii)	(xiii) BPVC.III.1.NF–2015, Section III - Rules for Construction of Nuclear Facility Components, Division I - Subsection NF, Supports; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xiv)	(xiv) BPVC.III.1.NG-2015, Section III-Rules for Construction of Nuclear Facility Components, Division I-Subsection NG, Core Support Structures; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.27(d)(1)(xv)	(xv) BPVC.III.1.NH–2015, Section III - Rules for Construction of Nuclear Facility Components, Division I - Subsection NH, Class 1 Components in Elevated Temperature Service; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xvi)	(xvi) BPVC.III.NCA–2015, Section III - Rules for Construction of Nuclear Facility; Components, Subsection NCA, General Requirements for Division 1 and Division 2; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xvii)	(xvii) BPVC.III.2–2015, Section III - Rules for Construction of Nuclear Facility Components, Division 2, Code for Concrete Containments; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xviii)	(xviii) BPVC.III.3–2015, Section III - Rules for Construction of Nuclear Facility Components, Division 3, Containments for Transportation and Storage of Spent Nuclear Fuel and High-Level Radioactive Material and Waste; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xix)	(xix)) BPVC.III.5–2015, Section III - Rules for Construction of Nuclear Facility Components, Division 5, High Temperature Reactors; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xx)	(xx) BPVC.IV–2015, Section IV, Rules for Construction of Heating Boilers; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xxii)	(xxii) BPVC.VI–2015, Section VI, Recommended Rules for the Care and Operation of Heating Boilers; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	 DUF6-U-PEP-1316, Pressure Safety Program WSHP, Section 12.4 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xxiii)	(xxiii) BPVC.VII–2015, Section VII, Recommended Guidelines for the Care of Power Boilers; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.27(d)(1)(xxiv)	(xxiv) BPVC.VIII.1–2015, Section VIII—Rules for Construction of Pressure Vessels, Division 1; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	 DUF6-U-PEP-1316, Pressure Safety Program WSHP, Section 12.4 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xxv)	(xxv) BPVC.VIII.2–2015, Section VIII - Rules for Construction of Pressure Vessels, Division 2, Alternative Rules; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xxvi)	(xxvi) BPVC.VIII.3–2015, Section VIII - Rules for Construction of Pressure Vessels, Division 3, Alternative Rules for Construction of High-Pressure Vessels; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
	Vessels; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;		
851.27(d)(1)(xxvii)	(xxvii) BPVC.IX–2015, Section IX - Welding, Brazing and Fusing Qualifications, Qualification Standard for Welding, Brazing, and Fusing Procedures; Welders; Brazers; and Welding, Brazing, and Fusing Operators; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xxviii)	(xxviii) BPVC.X–2015, Section X, Fiber - Reinforced Plastic Pressure Vessels; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xxvix)	(xxix) BPVC.XI–2015, Section XI, Rules for In-service Inspection of Nuclear Power Plant Components; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xxx)	(xxx) BPVC.XII–2015, Section XII, Rules for Construction and Continued Service of Transport Tanks; issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(1)(xxxi)	(xxxi) BPVC.CC.BPV–2015, Code Cases, Boilers and Pressure Vessels; 2015 edition, issued July 1, 2015; IBR approved for appendix A, section 4, Pressure Safety; and	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.27(d)(1)(xxxii)	(xxxii) BPVC.CC.NC–2015, Code Cases, Nuclear Components; issued July 1, 2015, IBR approved for appendix A, section 4, Pressure Safety.	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(2)	(2) ASME B31 codes for pressure piping as follows:	Yes	See below
851.27(d)(2)(i)	(i) B31.1–2016, Power Piping, ASME Code for Pressure Piping, B31, issued June 30, 2016; IBR approved for appendix A, Section 4, Pressure Safety;	Yes	FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(2)(ii)	(ii) B31.3–2014, <i>Process Piping, ASME Code for Pressure Piping</i> , B31, issued February 27, 2015; IBR approved for appendix A, Section 4, Pressure Safety;	Yes	 DUF6-U-PEP-1316, Pressure Safety Program WSHP, Section 12.4 Piping Specification
851.27(d)(2)(iii)	(iii) B31.4–2016, Pipeline Transportation Systems for Liquids and Slurries, ASME Code for Pressure Piping, B31, issued March 31, 2016; IBR approved for appendix A, Section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(2)(iv)	(iv) B31.5–2016, Refrigeration Piping and Heat Transfer Components, ASME Code for Pressure Piping, B31, issued June 29, 2016; IBR approved for appendix A, Section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(2)(v)	(v) B31.8–2016, Gas Transmission and Distribution Piping Systems, ASME Code for Pressure Piping, B31, issued September 30, 2014; IBR approved for appendix A, Section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(2)(vi)	(vi) B31.8S–2014, Managing System Integrity of Gas Pipelines, ASME Code for Pressure Piping, B31, Supplement to ASME B31.8, issued September 30, 2014; IBR approved for appendix A, Section 4, Pressure Safety;	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(2)(vii)	(vii) B31.9–2014, <i>Building Services Piping, ASME Code for Pressure Piping,</i> B31, issued April 28, 2014; IBR approved for appendix A, Section 4, Pressure Safety; and	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
851.27(d)(2)(viii)	(viii) B31G–2012, Manual for Determining the Remaining Strength of Corroded Pipelines, Supplement to ASME B31 Code for Pressure Piping, issued October 24, 2012; IBR approved for appendix A, Section 4, Pressure Safety.	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
851.27(e)	(e) NFPA. The National Fire Protection Association, One Batterymarch Park, Quincy, MA 02169. Telephone: 617-984-7423, or go to: http://www.nfpa.org.	Yes	See below
851.27(e)(1)	1) NFPA 70, National Electric Code, (2017), issued August 4, 2016; IBR approved for § 851.23; and	Yes	See below
851.27(e)(2)	(2) NFPA 70E, Standard for Electrical Safety in the Workplace, (2015 edition) issued July 14, 2014; IBR approved for § 851.23.	Yes	See below
Appendix A	General Requirements Worker Safety and Health Functional Areas		•
Appendix A-1	Construction Safety	Applicable	DUF6 Implementing Documents
App A.1(a)	For each separately definable construction activity (e.g., excavations, foundations, structural steel, roofing) the construction contractor must:	Yes	See below
App A.1(a)	(1) Prepare and have approved by the construction manager an activity hazard analysis prior to commencement of affected work. Such analyses must:	Yes	 WSHP, Section 12.1 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work DUF6-U-PRP-0001, Purchasing Procedure DUF6-U-PRP-0034, Subcontract Technical Representative (STR) DUF6 Form 9063, ESH Special Terms and Conditions DUF6 Form 9258, Subcontractor Readiness Checklist
App A.1(a)	(1)(i) Identify foreseeable hazards and planned protective measures;	Yes	 WSHP, Section 12.1 DUF6-U-SHP-0102, General Safety Rules DUF6-U-SHP-0210, Personal Protective Equipment DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work DUF6 Form 9257, High Risk Review Board form
App A.1(a)	(1)(ii) Address further hazards revealed by supplemental site information (e.g., site characterization data, as-built drawings) provided by the construction manager;	Yes	 WSHP, Section 12.1 DUF6-U-QAP-0022, Time Out/Stop Work DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work DUF6 Form 9257, High Risk Review Board form

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.1(a)	(1)(iii) Provide drawings and/or other documentation of protective measures for which applicable Occupational Safety and Health Administration (OSHA) standards require preparation by a Professional engineer or other qualified professional, and	Yes	 WSHP, Section 12.1 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work DUF6-U-TRN-0001, Training and Qualification DUF6-PLN-027, Personnel Selection, Training, and Qualification Management Plan
App A.1(a)	(1)(iv) Identify competent persons required for workplace inspections of the construction activity, where required by OSHA standards.	Yes	 WSHP, Section 12.1 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work DUF6-U-TRN-0001, Training and Qualification DUF6-PLN-027, Personnel Selection, Training, and Qualification Management Plan DUF6 Form 9063, ES&H Special Terms and Conditions
App A.1(a)	(2) Ensure workers are aware of foreseeable hazards and the protective measures described within the activity analysis prior to beginning work on the affected activity.	Yes	 WSHP, Section 12.1 DUF6-POL-060, Environment, Safety, and Health Policy DUF6-POL-048, Safety Culture DUF6-U-SHP-0102, General Safety Rules DUF6-U-SHP-0210, Personal Protective Equipment DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work DUF6 Form 9257, High Risk Review Board form. DUF6 Form 9258, Subcontractor Readiness Checklist DUF6 Form 9063, ES&H Special Terms and Conditions
App A.1(a)	(3) Require that workers acknowledge being informed of the hazards and protective measures associated with assigned work activities. Those workers failing to utilize appropriate protective measures must be subject to the construction contractor's disciplinary process.	Yes	 WSHP, Section 12.1 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work DUF6-U-SHP-0102, General Safety Rules

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.1(b)	During periods of active construction (i.e., excluding weekends, weather delays, or other periods of work inactivity), the construction contractor must have a designated representative on the construction worksite who is knowledgeable of the Project's hazards and has full authority to act on behalf of the construction contractor. The contractor's designated representative must make frequent and regular inspections of the construction worksite to identify and correct any instances of noncompliance with project safety and health requirements.	Yes	 WSHP, Section 12.1 DUF6-U-SHP-0103, Safety Walkthroughs DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work DUF6-U-TRN-0001, Training and Qualification DUF6-PLN-027, Personnel Selection, Training, and Qualification Management Plan DUF6-U-PRP-0001, Purchasing Procedure DUF6-U-PRP-0034, Subcontract Technical Representative (STR) DUF6 Form 9063, ESH Special Terms and Conditions
Appendix A-1	Construction Safety	Applicable	DUF6 Implementing Documents
App A.1(c)	Workers must be instructed to report to the construction contractor's designated representative, hazards not previously identified or evaluated. If immediate corrective action is not possible or the hazard falls outside of project scope, the construction contractor must immediately notify affected workers, post appropriate warning signs, implement needed interim control measures, and notify the construction manager of the action taken. The contractor or the designated representative must stop work in the affected area until appropriate protective measures are established.	Yes	 WSHP, Section 12.1 DUF6-POL-060, Environment, Safety, and Health Policy DUF6-POL-048, Safety Culture DUF6-U-QAP-0022, Time-Out/Stop Work DUF6-U-SHP-0102, General Safety Rules DUF6-U-SHP-0211, Hazard Analysis DUF6-U-SHP-0301, Accident/Incident Reporting DUF6-C-GFP-0107, Accident Prevention, Equipment, and System Control Tags and Locks DUF6-X-GFP-0107, Administrative-Control and Defective-Equipment Tags DUF6-U-SHP-0208, Safety Signs, Tags, and Barriers DUF6-U-GFP-0108, Control of Work

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.1(d)	The construction contractor must prepare a written construction Project safety and health plan to implement the requirements of this section and obtain approval of the plan by the construction manager prior to commencement of any work covered by the plan. In the plan, the contractor must designate the individual(s) responsible for on-site implementation of the plan, specify qualifications for those individuals, and provide a list of those project activities for which subsequent hazard analyses are to be performed. The level of detail within the construction project safety and health plan should be commensurate with the size, complexity, and risk level of the construction project. The content of this plan need not duplicate those provisions that were previously submitted and approved as required by § 851.11.	Yes	 WSHP, Section 12.1 DUF6-U-SHP-0103, Safety Walkthroughs DUF6-U-SHP-0211, Hazard Analysis DUF6-U-GFP-0108, Control of Work DUF6-U-PRP-0001, Purchasing Procedure DUF6-U-PRP-0034, Subcontract Technical Representative (STR) DUF6-U-TRN-0001, Training and Qualification DUF6-PLN-027, Personnel Selection, Training, and Qualification Management Plan DUF6 Form 9063, ESH Special Terms and Conditions
Appendix A-2	Fire Protection	Applicable	DUF6 Implementing Documents
App A.2(a)	Contractors must implement a comprehensive fire safety and emergency response program to protect workers commensurate with the nature of the work that is performed. This includes appropriate facility and site-wide fire protection, fire alarm notification and egress features, and access to a fully staffed, trained, and equipped emergency response organization that is capable of responding in a timely and effective manner to site emergencies.	Yes	 WSHP, Section 12.2 DUF6-PLN-024, Fire Protection Program Description for the DUF6 Conversion Project DUF6-U-FPP-0803, Fire Prevention and Good Housekeeping DUF6-U-FPP-0810, Conversion Facility Control of Combustibles
App A.2(b)	An acceptable fire protection program must include those fire protection criteria and procedures, analyses, hardware apparatus and equipment, and personnel that would comprehensively ensure that the objective in paragraph 2(a). This includes meeting applicable building codes and National Fire Protection Association codes and standards.	Yes	 WSHP, Section 12.2 DUF6-PLN-024, Fire Protection Program Description for the DUF6 Conversion Project
Appendix A-3	Explosives Safety	Applicable	DUF6 Implementing Documents
App A.3(a)	Contractors responsible for the use of explosive materials must establish and implement a comprehensive explosives safety program.	Yes	CP2-HS-2000, Worker Safety and Health Program for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky
App A.3(b)	(b) Contractors must comply with the policy and requirements specified in the appropriate explosives safety technical standard.	Yes	 CP2-HS-2000, Worker Safety and Health Program for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky CP4-SS-MOTSOP Chapter 1, Firearms, Ammunition, and Safety Procedures

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.3(c)	Contractors must determine the applicability of the explosive's safety directive requirements to research and development laboratory type operations consistent with the DOE level of protection criteria described in the explosives safety directive.	No	• N/A
Appendix A-4	Pressure Safety	Applicable	DUF6 Implementing Documents
App A.4(a)	Contractors must establish safety policies and procedures to ensure that pressure systems are designed, fabricated, tested, inspected, maintained, repaired, and operated by trained and qualified personnel in accordance with applicable and sound engineering principles.	Yes	 WSHP, Section 12.4 DUF6-X-CYP-2521, UF6 Field Cold Pressure Check and Minor Valve Repair DUF6-C-CYP-2426, Cold Pressure Check DUF6-C-CYP-2524, Replacement of Non- Fissile UF6 Cylinder Valves and Plugs DUF6-U-PEP-1316, Pressure Safety Program CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)	Contractors must ensure that all pressure vessels, boilers, air receivers, and supporting piping systems conform to:	Yes	 WSHP, Section 12.4 DUF6-PLN-003, Project Quality Assurance Plan DUF6-U-PEP-1316, Pressure Safety Program CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)	(1) The applicable American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (BPVC) including applicable Code Cases as indicated in paragraphs (b)(1)(i) through (xxxii) of this section:	Yes	 WSHP, Section 12.4 Piping Specifications DUF6-U-PEP-1316, Pressure Safety Program
App A.4(b)(1)(i)	(i) BPVC.I-2015, Section I-Rules for Construction of Power Boilers (incorporated by reference, see § 851.27);	No	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(ii)	(ii) BPVC.II. A-2015, Section II-Materials, Part A-Ferrous Material Specifications (Beginning to SA–450) (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(iii)	((iii) BPVC.II.A–2015, Section II—Materials, Part A—Ferrous Material Specifications (SA– 451 to End) (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.4(b)(1)(iv)	(iv) BPVC.II.B–2015, Section II—Materials, Part B—Nonferrous Material Specifications (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(v)	(v) BPVC.II.C-2015, Section II-Materials, Part C-Specification for Welding Rods; Electrodes, and Filler Metals (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(vi)	(vi) BPVC.II.D.C-2015, Section II- Materials, Part D-Properties (Customary) (incorporated by reference, see § 851.27	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(vii)	(vii) BPVC.II.D.M-2015, Section II-Materials, Part D-Properties (Metric) (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(viii)	(viii) BPVC.III.A-2015, Section III-Rules for Construction of Nuclear Facility Components, Appendices (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(ix)	(ix) BPVC.III.1.NB–2015, Section III—Rules for Construction of Nuclear Facility Components, Division I—Subsection NB, Class 1 Components (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(x)	(x) BPVC.III.1.NC–2015, Section III—Rules for Construction of Nuclear Facility Components, Division I—Subsection NC, Class 2 Components (incorporated by reference, see § 851.27	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xi)	(xi) BPVC.III.1.ND–2015, Section III—Rules for Construction of Nuclear Facility Components, Division I—Subsection ND, Class 3 Components (incorporated by reference, see § 851.27)	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xii)	(xii) BPVC.III.1.NE–2015, Section III—Rules for Construction of Nuclear Facility Components, Division I—Subsection NE, Class MC Components (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.4(b)(1)(xiii)	(xiii) BPVC.III.1.NF-2015, Section III -Rules for Construction of Nuclear Facility Components, Division I Subsection NF, Supports (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xiv)	(xiv) BPVC.III.1.NG–2015, Section III-Rules for Construction of Nuclear Facility Components, Division I—Subsection NG, Core Support Structures (incorporated by reference, see § 851.27);	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xv)	(xv) BPVC.III.1. NH–2015, Section III -Rules for Construction of Nuclear Facility Components, Division I—Subsection NH, Class 1 Components in Elevated Temperature Service (incorporated by reference, see § 851.27);	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xvi)	(xvi) BPVC.III.NCA-2015, Section III - Rules for Construction of Nuclear Facility; Components, Subsection NCA, General Requirements for Division 1 and Division 2 (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xvii)	(xvii) BPVC.III.2–2015, Section III-Rules for Construction of Nuclear Facility Components, Division 2, Code for Concrete Containments (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xviii)	(xviii) BPVC.III.3-2015, Section III-Rules for Construction of Nuclear Facility Components, Division 3, Containment for Transportation and Storage of Spent Nuclear Fuel and High-Level Radioactive Material and Waste (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xix)	(xix) BPVC.III.5-2015, Section III-Rules for Construction of Nuclear Facility Components, Division 5, High Temperature Reactors (incorporated by reference, see § 851.27);	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xx)	(xx) BPVC.IV-2015, Section IV, Rules for Construction of Heating Boilers (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xxi)	(xxi) BPVC.V-2015, Section V, Nondestructive Examination (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.4(b)(1)(xxii)	(xxii) BPVC.VI–2015, Section VI, Recommended Rules for the Care and Operation of Heating Boilers (incorporated by reference, see § 851.27);	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xxiii)	(xxiii) BPVC.VII–2015, Section VII, Recommended Guidelines for the Care of Power Boilers (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xxiv)	(xxiv) BPVC.VIII.1–2015, Section VIII-Rules for Construction of Pressure Vessels, Division 1 (incorporated by reference, see § 851.27);	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xxv)	(xxv) BPVC.VIII.2–2015, Section VIII-Rules for Construction of Pressure Vessels, Division 2, Alternative Rules (incorporated by reference, see § 851.27);	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xxvi)	(xxvi) BPVC.VIII.3–2015, Section VIII-Rules for Construction of Pressure Vessels, Division 3, Alternative Rules for Construction of High-Pressure Vessels (incorporated by reference, see § 851.27);	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xxvii)	(xxvii) BPVC.IX–2015, Section IX-Welding, Brazing and Fusing Qualifications, Qualification Standard for Welding, Brazing, and Fusing Procedures; Welders; Brazers; and Welding, Brazing, and Fusing Operators (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xxviii)	(xxviii) BPVC.X–2015, Section X, Fiber-Reinforced Plastic Pressure Vessels (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xxix)	(xxix) BPVC.XI–2015, Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components (incorporated by reference, see § 851.27);	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xxx)	(xxx) BPVC.XII–2015, Section XII, Rules for Construction and Continued Service of Transport Tanks (incorporated by reference, see § 851.27);	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.4(b)(1)(xxxi)	(xxxi) BPVC.CC.BPV–2015, Code Cases, Boilers and Pressure Vessels (incorporated by reference, see § 851.27); and	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(1)(xxxii)	(xxxii) BPVC.CC.NC–2015, Code Cases, Nuclear Components (incorporated by reference, see § 851.27).	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(2)	(2) The applicable ASME B31 code for pressure piping as indicated in this paragraph; and or as indicated in paragraph (b)(3) of this section:	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(2)(i)	(i) B31.1–2016, <i>Power Piping</i> (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(2)(ii)	(ii) B31.3–2014, <i>Process Piping</i> (incorporated by reference, see § 851.27);	Yes	 WSHP, Section 15.3 Piping Specifications DUF6-U-PEP-1316, Pressure Safety Program CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(2)(iii)	(iii) B31.4–2016, Pipeline Transportation Systems for Liquids and Slurries (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(2)(iv)	(iv) B31.5–2016, Refrigeration Piping and Heat Transfer Components (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(2)(v)	(v) B31.8–2016, Gas Transmission and Distribution Piping Systems (incorporated by reference, see § 851.27);	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.4(b)(2)(vi)	(vi) B31.8S–2014, Managing System Integrity of Gas Pipelines (incorporated by reference, see § 851.27);	Yes	 CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(2)(vii)	(vii) B31.9–2014, <i>Building Services Piping</i> (incorporated by reference, see § 851.27); and	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(b)(2)(viii)	(viii) B31G–2012, Manual for Determining the Remaining Strength of Corroded Pipelines (incorporated by reference, see § 851.27).	Yes	CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
App A.4(c)	When national consensus codes are not applicable (because of pressure range, vessel geometry, use of special materials, etc.), contractors must implement measures to provide equivalent protection and ensure a level of safety greater than or equal to the level of protection afforded by the ASME or applicable state or local code. Measures must include the following: (1) Design drawings, sketches, and calculations must be reviewed and approved by a qualified independent design professional (i.e., professional engineer). Documented organizational peer review is acceptable. 2) Qualified personnel must be used to perform examinations and inspections of materials, in-process fabrications, nondestructive tests, and acceptance test. (3) Documentation, traceability, and accountability must be maintained for each pressure vessel or system, including descriptions of design, pressure conditions, testing, inspection, operation, repair, and maintenance.	Yes	 DUF6-U-PEP-1316, Pressure Safety Program CP3-EN-0313, Pressure Safety FBP-POEF-FBP-009, Owner/User Accreditation Program
Appendix A-5	Firearms Safety	Applicable	DUF6 Implementing Documents

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.5(a)	A contractor engaged in DOE activities involving the use of firearms must establish firearms safety policies and procedures for security operation, and training to ensure proper accident prevention controls are in place. (1) Written procedures must address firearms safety, engineering, and administrative controls, as well as personal protective equipment requirements. (2) As a minimum, procedures must be established for: (i) Storage, handling, cleaning, inventory, and maintenance of firearms and associated ammunition; (ii) Activities such as loading, unloading, and exchanging firearms. These procedures must address use of bullet containment devices and those techniques to be used when no bullet containment device is available; (iii) Use and storage of pyrotechnics, explosives, and/or explosive projectiles; (iv) Handling misfires and unauthorized discharges; (v) Live fire training, qualification, and evaluation activities; (vi) Training and exercises using engagement simulation systems; (vii) Medical response at firearms training facilities; and (viii) Use of firing ranges by personnel other than DOE or DOE contractor protective forces personnel.	Yes	 CP4-SS-MOTSOP Chapter 1, Firearms, Ammunition, and Safety Procedures CP4-SS-PFGO 1, Duty Standards CP4-SS-MOTSOP Chapter 2, Indoor Range Operations CP4-SS-MOTSOP Chapter 1, Firearms, Ammunition, and Safety Procedures CP4-SS-MOTSOP Chapter 2, Indoor Range Operations CP4-SS-MOTSOP Chapter 5, Duds, Damaged and Unusable Ammunition and Explosives CP4-SS-FOFM, Force-on-Force Exercise Manual
App A.5(b)	Contractors must ensure that personnel responsible for the direction and operation of the firearms safety program are professionally qualified and have sufficient time and authority to implement the procedures under this section.	Yes	 CP4-SS-MOTSOP Chapter 2, Indoor RangeOperations CP4-SS-MTSOP Chapter 3, Instructor Recertification Requirements
App A.5(c)	Contractors must ensure that firearms instructors and armorers have been certified by the Safeguards and Security National Training Center to conduct the level of activity provided. Personnel must not be allowed to conduct activities for which they have not been certified.	Yes	 CP4-SS-MOTSOP Chapter 2, Indoor Range Operations CP4-SS-MTSOP Chapter 3, Instructor Recertification Requirements CP4-SS-MTSOP Chapter 15, PF Armorer Procedure

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.5(d)	Contractors must conduct formal appraisals assessing implementation of procedures, personnel responsibilities, and duty assignments to ensure overall policy objectives and performance criteria are being met by qualified personnel.	Yes	CP4-SS-PFSA, Protective Force Self- AssessmentProgram
App A.5(e)	Contractors must implement procedures related to firearms training, live fire range safety, qualification, and evaluation activities, including procedures requiring that: (1) Personnel must successfully complete initial firearms safety training before being issued any firearms. Authorization to remain in armed status will continue only if the employee demonstrates the technical and practical knowledge of firearms safety semiannually; (2) Authorized armed personnel must demonstrate through documented limited scope performance tests both technical and practical knowledge of firearms handling and safety on a semi-annual basis; 3) All firearms training lesson plans must incorporate safety for all aspects of firearms training task performance standards. The lesson plans must follow the standards set forth by the Safeguards and Security Central Training Academy's standard training programs; (4) Firearms safety briefings must immediately precede training, qualifications, and evaluation activities involving live fire and/or engagement simulation systems; (5) A safety analysis approved by the Head of DOE Field Element must be developed for the facilities and operation of each live fire range prior to implementation of any new training, qualification, or evaluation activity. Results of these analyses must be incorporated into procedures, lesson plans, exercise plans, and limited scope performance tests; (6) Firing range safety procedures must be conspicuously posted at all range facilities; and (7) Live fire ranges, approved by the Head of DOE Field Element, must be properly sited to protect personnel on the range, as well as personnel and property not associated with the range.	Yes	 CP4-SS-MOTSOP Chapter 1, Firearms, Ammunition, and Safety Procedures CP4-SS-SOP 10, Weapons Authorization Credential Submittal CP4-SS-MOTSOP Chapter 2, Indoor Range Operations CP4-SS-MOTSOP Chapter 4, Remedial Firearms/Weapons Training Program CP4-SS-IRRA, C-208 Indoor Live Fire Range Risk Analysis CP4-SS-MOTSOP Chapter 2, Indoor Range Operations CP4-SS-IRRA, C-208 Indoor Live Fire Range Risk Analysis
App A.5(f)	Contractors must ensure that the transportation, handling, placarding, and storage of munitions conform to the applicable DOE requirements.	Yes	 CP4-SS-MOTSOP Chapter 3, Ammunition and Firearms Storage Procedure. CP4-SS-MOTSOP Chapter 1, Firearms, Ammunition, and Safety Procedures
Appendix A-6	Industrial Hygiene	Applicable	DUF6 Implementing Documents

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
Арр А.6	Contractors must implement a comprehensive industrial hygiene program that includes at least the following elements:	Yes	 WSHP, Section 12.6 DUF6-POL-060, Environment, Safety, and Health Policy DUF6-POL-048, Safety Culture DUF6-U-SHP-0501, Occupational Medicine Program DUF6-U-SHP-0502, Hearing Conservation Program DUF6-U-SHP-0504, Respiratory Protection Program DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological) DUF6-U-SHP-0508, Ergonomics Program DUF6-U-SHP-0511, Biological Monitoring for Industrial Chemicals DUF6-U-SHP-0514, Temperatures Extremes DUF6-U-SHP-0601, Hazard Communications DUF6-U-SHP-0210, Personal Protective Equipment
App A.6(a)	Initial or baseline surveys and periodic resurveys and/or exposure monitoring as appropriate of all work areas or operations to identify and evaluate potential worker health risks;	Yes	 WSHP, Section 12.6 DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)
App A.6(b)	Coordination with planning and design personnel to anticipate and control health hazards that proposed facilities and operations would introduce;	Yes	DUF6-U-PEP-1110, Operations Design Change Control
App A.6(c)	Coordination with cognizant occupational medical, environmental, health physics, and work planning professionals;	Yes	 WSHP, Section 12.6 DUF6-U-SHP-0211, Hazard Analysis DUF6-U-SHP-0501, Occupational Medicine Program DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)
App A.6(d)	Policies and procedures to mitigate the risk from identified and potential occupational carcinogens;	Yes	WSHP, Section 12.6 DUF6-U-SHP-0601, Hazard Communications
App A.6(e)	Professionally and technically qualified industrial hygienists to manage and implement the industrial hygiene program; and	Yes	 WSHP, Section 12.6 and 5.6 DUF6-U-TRN-0001, Training and Qualification DUF6-U-SHP-0505, Exposure Assessments (Non-Radiological)

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.6(f)	Use of respiratory protection equipment tested under the DOE Respirator Acceptance Program for Supplied-Air Suits when the National Institute for Occupational Safety and Health-approved respiratory protection does not exist for DOE tasks that require such equipment. For security operations military type masks for respiratory protection by security personnel is acceptable.	No	Not applicable since MCSA only anticipates the use of supplied-air suits that have been approved by the National Institute for Occupational Safety and Health if such suits become necessary.
Appendix A-7	Biological Safety	Applicable	DUF6 Implementing Documents
App A.7(a)	that: (1) Establishes an Institutional Biosafety Committee (IBC) or equivalent. The IBC must: (i) Review any work with biological etiologic agents for compliance with applicable Center for Disease Control (CDC), National Institutes of Health (NIH), World Health Organization (WHO), United States Department of Agriculture Animal and Plant Health Inspection Service (USDA/APHIS), and other international, Federal, state, and local guidelines and assess the containment level, facilities, procedures, practices, and training and expertise of personnel; and (ii) Review the site's security, safeguards, and emergency management plans and procedures to ensure they adequately consider work involving biological etiologic agents. (2) Maintains an inventory and status of biological etiologic agents, and provide to the responsible field and area office, through the laboratory IBC (or its equivalent), an annual status report describing the status and inventory of biological etiologic agents and the biological safety program. (3) Provides for submission to the appropriate Head of DOE Field Element, for review and concurrence before transmittal to the Federal Select Agent Program, each Laboratory Registration/Select Agent Program registration application package (APHIS/ CDC Form 1, Application for Registration for Possession, Use, and Transfer of Select Agents and Toxins) requesting registration of (or amendment to a previously approved registration) a laboratory facility for the purpose of possessing, using, or transferring biological select agents and/or toxins. (4) Provides for submission to the appropriate Head of DOE Field Element, a copy of each APHIS/CDC Form 2, Request to Transfer Select Agents and Toxins, upon initial submission of APHIS/CDC Form 2 to a vendor or other supplier requesting or ordering a biological select agent or toxin for transfer, receipt, and handling in the registered facility; and submission to the	No	Standard is not applicable to MCSA

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
	appropriate Head of DOE Field Element the completed copy of the APHIS/CDC Form 2, documenting final disposition and/or destruction of the select agent or toxin, within 10 days of completion of the APHIS/CDC Form 2. (5) Confirms that the site safeguards and security plans and emergency management programs address biological etiologic agents, with particular emphasis on biological select agents. (6) Establishes an immunization policy for personnel working with biological etiologic agents based on the evaluation of risk and benefit of immunization.		
App A.7(b)	[Reserved]		• NA
Appendix A-8	Occupational Medicine Program	Applicable	DUF6 Implementing Documents
App A.8(a)	Contractors must establish and provide comprehensive Occupational Medicine Program services to workers employed at a covered work place who: (1) Work on a DOE site for more than 30 days in a 12-month period; or (2) Are enrolled for any length of time in a medical or exposure-monitoring program required by this rule and/or any other applicable Federal, State, or local regulation, or other obligation.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program Program
App A.8(b)	The occupational medicine services must be under the direction of a graduate of a school of medicine or osteopathy who is licensed for the practice of medicine in the state in which the site is located.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(c)	Occupational medical physicians, occupational health nurses, physician's assistants, nurse practitioners, psychologists, employee assistance counselors, and other occupational health personnel providing occupational medicine services must be licensed, registered, or certified as required by Federal or State law where employed.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.8(d)	Contractors must provide the occupational medicine providers access to hazard information by promoting its communication, coordination, and sharing among operating and environment, safety, and health protection organizations. (1) Contractors must provide the occupational medicine providers with access to information on the following: (1)(i) Current information about actual or potential work-related site hazards (chemical, radiological, physical, biological, or ergonomic); (1)(ii) Employee job-task and hazard analysis information, including essential job functions; (1)(iii) Actual or potential work-site exposures of each employee; and (1)(iv) Personnel actions resulting in a change of job functions, hazards, or exposures.	Yes	 WSHP, Section 12.8 DUF6-POL-060, Environment, Safety, and Health Policy DUF6-POL-048, Safety Culture OSMS-PLN-007, Radiation Protection Program OSMS-PLN-216, Environmental Radiation Protection Program DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(d)	(2) Contractors must notify the occupational medicine providers when an employee has been absent because of an injury or illness for more than 5 consecutive workdays (or an equivalent time period for those individuals on an alternative work schedule);	Yes	DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(d)	(3) Contractors must provide the occupational medicine provider information on, and the opportunity to participate in, worker safety and health team meetings and committees;	Yes	DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(d)	(4) Contractors must provide occupational medicine providers access to the workplace for evaluation of job conditions and issues relating to workers' health.	Yes	DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(e)	A designated occupational medicine provider must: (1) Plan and implement the occupation medicine services; and (2) Participate in worker protection teams to build and maintain necessary partnerships among workers, their representatives, managers, and safety and health protection specialists in establishing and maintaining a safe and healthful workplace.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.8(f)	A record, containing any medical, health history, exposure history, and demographic data collected for the occupational medicine purposes, must be developed and maintained for each employee for whom medical services are provided. All occupational medical records must be maintained in accordance with Executive Order 13335, Incentives for the Use of Health Information Technology. (1) Employee medical, psychological, and employee assistance program (EAP) records must be kept confidential, protected from unauthorized access, and stored under conditions that ensure their long-term preservation. Psychological records must be maintained separately from medical records and in the custody the designated psychologist in accordance with 10 CFR 712.38(b) (2). (2) Access to these records must be provided in accordance with DOE regulations implementing the Privacy Act and the Energy Employees Occupational Illness Compensation Program Act.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program Program
App A.8(g)	The occupational medicine services provider must determine the content of the worker health evaluations, which must be conducted under the direction of a licensed physician, in accordance with current sound and acceptable medical practices and all pertinent statutory and regulatory requirements, such as the Americans with Disabilities Act. (1) Workers must be informed of the purpose and nature of the medical evaluations and tests offered by the occupational medicine provider. (1)(i) The purpose, nature and results of evaluations and tests must be clearly communicated verbally and in writing to each worker provided testing; (1)(ii) The communication must be documented in the worker's medical record; and (2) The following health evaluations must be conducted when determined necessary by the occupational medicine provider for providing initial and continuing assessment of employee fitness for duty. (2)(i) At the time of employment entrance or transfer to a job with new functions and hazards, a medical placement evaluation of the individual's general health and physical and psychological capacity to perform work will establish a baseline record of physical condition and assure fitness for duty. (2)(ii) Periodic, hazard-based medical monitoring or qualification-based fitness for duty evaluations required by regulations and standards, or as recommended by the occupational medicine services provider, will be provided on the frequency required.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
	(2)(iii) Diagnostic examinations will evaluate employee's injuries and illnesses to determine work-relatedness, the applicability of medical restrictions, and referral for definitive care, as appropriate. (2)(iv) After a work-related injury or illness or an absence due to any injury or illness lasting 5 or more consecutive workdays (or an equivalent time period for those individuals on an alternative work schedule), a return to work evaluation will determine the individual's physical and psychological capacity to perform work and return to duty. (2)(v) At the time of separation from employment, individuals shall be offered a general health evaluation to establish a record of physical condition.		
App A.8(h)	The occupational medicine provider must monitor ill and injured workers to facilitate their rehabilitation and safe return to work and to minimize lost time and its associated costs. (1) The occupational medicine provider must place an individual under medical restrictions when health evaluations indicate that the worker should not perform certain job tasks. The occupational medicine provider must notify the worker and contractor management when employee work restrictions are imposed or removed.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program Program
App A8(i)	Occupational medicine provider physician and medical staff must, on a timely basis, communicate results of health evaluations to management and safety and health protection specialists to facilitate the mitigation of worksite hazards.	Yes	 WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(j)	The occupational medicine provider must include measures to identify and manage the principal preventable causes of premature morbidity and mortality affecting worker health and productivity.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(j)	(1) The contractor must include programs to prevent and manage these causes of morbidity when evaluations demonstrate their cost effectiveness.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(j)	(2) Contractors must make available to the occupational medicine provider appropriate access to information from health, disability, and other insurance plans (de-identified as necessary) in order to facilitate this process.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(k)	The occupational medicine services provider must review and approve the medical and behavioral aspects of employee counseling and health promotional programs, including the following types:	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(k)	(1) Contractor-sponsored or contractor supported EAPs;	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
App A.8(k)	(2) Contractor-sponsored or contractor supported alcohol and other substance abuse rehabilitation programs; and	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(k)	(3) Contractor-sponsored or contractor supported wellness programs.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program
App A.8(k)	(4) The occupational medicine services provider must review the medical aspects of immunization programs, blood-borne pathogens programs, and bio-hazardous waste programs to evaluate their conformance to applicable guidelines.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program Program
App A.8(k)	(5) The occupational medicine services provider must develop and periodically review medical emergency response procedures included in site emergency and disaster preparedness plans. The medical emergency responses must be integrated with nearby community emergency and disaster plans.	Yes	WSHP, Section 12.8 DUF6-U-SHP-0501, Occupational Medicine Program Program
Appendix A-9	Motor Vehicle Safety	Applicable	DUF6 Implementing Documents
App A.9(a)	Contractors must implement a motor vehicle safety program to protect the safety and health of all drivers and passengers in Government-owned or -leased motor vehicles and powered industrial equipment (i.e., fork trucks, tractors, platform lift trucks, and other similar specialized equipment powered by an electric motor or an internal combustion engine).	Yes	 WSHP, Section 12.9 DUF6-U-SHP-0102, General Safety Rules DUF6-U-GFP-0109, Management of Fleet Vehicles DUF6-U-SHP-0213, DUF6 Powered Industrial Trucks
App A.9(b)	The contractor must tailor the motor vehicle safety program to the individual DOE site or facility, based on an analysis of the needs of that particular site or facility.	Yes	 WSHP, Section 12.9 DUF6-U-SHP-0102, General Safety Rules DUF6-U-GFP-0109, Management of Fleet Vehicles DUF6-POL-071, Vehicle Safety Policy

Section Number	Section Title/Description of General Requirements	Applicable	DUF6 Implementing Documents
Арр А.9(с)	The motor vehicle safety program must address, as applicable to the contractor's operations: (1) Minimum licensing requirements (including appropriate testing and medical qualification) for personnel operating motor vehicles and powered industrial equipment; (2) Requirements for the use of seat belts and provision of other safety devices; (3) Training for specialty vehicle operators; (4) Requirements for motor vehicle maintenance and inspection; (5) Uniform traffic and pedestrian control devices and road signs; (6) On-site speed limits and other traffic rules; (7) Awareness campaigns and incentive programs to encourage safe driving; and (8) Enforcement provisions	Yes	 WSHP, Section 12.9 DUF6-U-SHP-0102, General Safety Rules DUF6-U-GFP-0109, Management of Fleet Vehicles DUF6-U-SHP-0213, DUF6 Powered Industrial Trucks DUF6-POL-071, Vehicle Safety Policy
Appendix A-10	Electrical Safety	Applicable	DUF6 Implementing Documents
App A.10	Contractors must implement a comprehensive electrical safety program appropriate for activities at their site. This program must meet the applicable electrical safety code and standards referenced in 851.23.	Yes	 WSHP, Section 12.10 DUF6-U-SHP-0214, Electrical Safety DUF6-U-GFP-0216, Control of Hazardous Energy (Lockout/Tagout)
Appendix A-11	Nanotechnology Safety	Applicable	DUF6 Implementing Documents
	Reserved	No	• NA
Appendix A-12	Workplace Violence Prevention	Applicable	DUF6 Implementing Documents
	Reserved	No	• NA

Attachment B. Crosswalk of the 10 CFR 851 Implementing Procedures for the 4 Currently Approved Paducah/Portsmouth WSHPs Contained in the OSMS Contract

Each procedure is listed once in the crosswalk starting with FBP.

IF the other contractors have a implementing procedure listed, THEN the other contractor's similar procedure on that same line.

IF there is no direct corresponding procedure then an "X" is placed in the line. The line is "greyed" out if this implementing procedure is listed earlier.

Note: The absence of a procedure listed, does NOT mean that that contractor does not have a similar procedure, only that its procedure was not used to support the elements of 10 CFR 851 in their WSHP.

For example, DUF6 has a Hoisting and Rigging Program (DUF6-U-SHP-0203) but it was not used to support its WSHP therefore, that corresponding line for other contractors, who did use their hoisting and rigging procedure as evidence of element implementation, has an X.

	FBP	4 Rivers	SST	OSMS/DUF6
1	BS-PRO-00114, Vendor	CP3-SP-0018,	ISSC-ESH-PR-013,	DUF6 Form 9258 Subcontractor
	Oversight	Subcontractor Oversight	Environment, Safety, and Health Subcontractor	Readiness Checklist
	BS-PRO-00149, Integrated		Oversight Program	ESH Special Terms and Conditions,
	Vendor Oversight Process			DUF6 Form 9063
				DUF6-U-PRP-0034 Subcontract
				Technical Representative (STR
2	PI-PRO-00002, Administration of Shared Site Issues	CP3-SI-0001, Site Interface Agreement	X	X
3	NSE-PRO-00141, Facility	CP3-OP-1117, Facility	X	
	Management	Inspections		DUF6-U-SHP-0103 Safety
	FMD-PRO-00001, Facility	CP3-OP-1118, Facility		Walkthroughs
	Management Division (FMD)	Management		
	Facility Management			

	FBP	4 Rivers	SST	OSMS/DUF6
4	TRN-PL-00001, Training Program Plan	CP2-TR-0100, Training Program for the Paducah Gaseous Diffusion Plant Paducah, Kentucky	ISSC-ESH-PL-001, Training Program	DUF6-PLN-027 Personnel Selection, Training, and Qualification Management Plan DUF6-U-TRN-0001, Training and Qualification
5	BS-PRO-00062, Records Management Process	CP3-OP-0025, Document Control Process CP3-RD-0010, Records	ISSC-RM-PR-001, Controlled Documents PGDP-RM-PR-001, Records	OSMS-PLN-015 Records Management Plan DUF6-U-DMP-0002 Records
		Management Process CP3-RD-0014, Records Identification and File Plan Development CP2-RD-0001, Records Management Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky	Management	Management Procedure
6	X	X	X	OSMS-PLN-040 Integrated Safety Management System Plan
7	OS-PRO-00028, Work Stoppage Due to Environmental Safety and Health Quality Concerns	CP3-HS-2009, Stop/Suspend Work	ISSC-ESH-PR-009, Suspension of Work	DUF6-U-QAP-0022 Time-Out/Stop Work
8	NSE-PDD-00001, Nuclear Criticality Safety Program Description Document	CP2-NSE-1000, Nuclear Criticality Safety Program Description Document at the Paducah Gaseous	X	DUF6-U-SMP-005 Safety Management Program Description for the DUF6 Conversion Project
9	BS-PRO-00024, Developing and Maintaining Performance Documents	CP3-OP-0002, Developing and Maintaining Performance Documents	ISSC-RM-PR-001, Controlled Documents PGDP-RM-PR-001, Records Management	DUF6-U-GFP-0015 Technical Procedure Development

	FBP	4 Rivers	SST	OSMS/DUF6
10	WPC-PDD-00001, Integrated Work Control Program Description Piketon, Ohio	CP3-SM-1102, Activity Level Work Execution and Closeout	ISSC-PM-PR-003, Work Planning and Control	DUF6-U-GFP-0108 Control of Work
	WPC-PDD-0001, Integrated Work Control Program Description, Piketon Ohio	CP3-SM-1101, Work Package Development	ISSC-PM-PR-002, Project Work Process	
11	NSE-PRO-00090, Use of Procedures	X	X	DUF6-U-SMP-0005 Safety Management Program Description for the DUF6 Conversion Project
12	BOP-PRO-00002, Control of Construction Support Contractor Work	CP3-SP-0018, Subcontractor Oversight	ISSC-PM-PR-003, Work Planning and Control	ESH Special Terms and Conditions, DUF6 Form 9063
	BS-PRO-00113, Control of Contractors		ISSC-ESH-PR-013, Environment, Safety, and Health Subcontractor Oversight Program	DUF6-U-PRP-0034 Subcontract Technical Representative (STR DUF6-CHART-23-002 High Risk Review Board Charter
13	BOP-PRO-00003, Decontamination and Demolition/Construction Project Planning	CP2-SM-1000, Activity Level Work Planning and Control Program for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky X	ISSC-PM-PR-003, Work Planning and Control	X
14	BS-PRO-00115, Contract Labor	CP2-SM-1000, Activity Level Work Planning and Control Program for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky	ISSC-PM-PR-003, Work Planning and Control ISSC-PM-PR-002, Project Work Process	DUF6-U-PRP-0001 Purchasing Procedure ESH Special Terms and Conditions, DUF6 Form 9063
				DUF6-U-PRP-0034 Subcontract Technical Representative (STR
15	NSE-PRO-00024, Hazard and Accident Analysis	CP3-HS-2004, Job Hazard Analysis	ISSC-ESH-PR-001, Hazard Assessments	DUF6-U-SMP-005 Safety Management Program Description for the DUF6 Conversion Project
	NSE-PRO-00007, Preliminary Hazard Screening	CP3-SM-1101, Work Package Development		DUF6-U-GFP-0108 Control of Work
	IH-PRO-00022, Job Hazard Analysis	CP3-SM-1102, Activity Level Work Execution and Closeout		

	FBP	4 Rivers	SST	OSMS/DUF6
16	IH-PRO-00024, Industrial	CP4-HS-2000, Industrial	ISSC-ESH-PR-032, General	DUF6-U-SHP-0505 Exposure
	Hygiene Sampling	Hygiene Sampling	Industrial Hygiene Program	Assessments (Non-Radiological
17	OS-PRO-00021, Personal	X	ISSC-ESH-PR-020,	DUF6-U-SHP-0210 Personal
	Protective Equipment and		Personal Protective	Protective Equipment
	Protective Clothing		Equipment	
18	QP-PRO-00010,	CP3-OP-1117, Facility	ISSC-ESH-PR-013,	DUF6-U-QAP-0013 Management
	Management Assessment	Inspections	Environment, Safety, and Health Subcontractor	Assessments
	QP-PRO-00011,	CP3-OP-1118, Facility	Oversight Program	DUF6-U-SHP-0103 Safety
	Independent Assessment	Management		Walkthroughs -
	QP-PRO-00029,			
	Management Field			
	Observations and Job Safety			
	Observations			
	QP-PRO-00023,			
	Surveillances			
19	QP-PRO-00019, Occurrence	CP3-QA-3005, Occurrence	ISSC-QA-PR-008,	DUF6-U-CPL-0016 Occurrence
	Reporting and Processing	Reporting	Occurrence Notification and Reporting	Notification and Reporting
		CP3-QA-3004, Evaluation		DUF6-U-CPL-0015 Nuclear Safety
		and Reporting of Potential		and WSHP Noncompliance
		PAAA/WSH Non-		Reporting
		compliances		
20	FP-PRO-00072, Welding,	CP3-FP-2005, Welding,	ISSC-ESH-PR-016,	DUF6-U-SHP-0801 Hot Work
	Burning, and Hot Work	Burning and Hotwork	Welding, Burning, and	
			Hotwork	
21	FB-PRO-00005,	CP3-FP-2031, Control of	CP2-FP-2000, Fire	DUF6-POL-003, Fire Protection
	Combustible Control	Combustible Material and	Protection Program	Statement
	Program	Ignition Source	Description for the Paducah	
			Gaseous Diffusion	DUF6-PLN-024 Fire Protection
				Description for the DUF6
				Conversion Project
22	IH-PRO-00028, Respiratory	CP2-HS-2003, Respiratory	ISSC-ESH-PR-015,	DUF6-U-SHP-0504 Respiratory
	Protection Program	Protection Program	Respiratory Protection	Protection Program
			Program	

	FBP	4 Rivers	SST	OSMS/DUF6
23	IH-PRO-00082, Process Safety Management of Highly Hazardous Chemicals	CP2-HS-2007, Hazardous Chemical Management Program	Х	X
		CP3-HS-2018, Process Safety Management of Highly Hazardous Chemicals		
24	IH-PRO-00049, Confined Space Program	CP3-HS-2055, Confined Space	ISSC-ESH-PR-019, Confined Space Program	DUF6-U-SHP-0512 Confined Space Program
25	IH-PRO-00017, Ergonomics Program	CP3-HS-2030, Ergonomics Applications	X	DUF6-U-SHP-0508 Ergonomics Program
26	IH-PRO-00038, Indoor Air Quality	CP3-HS-2033, Indoor Air Quality	X	X
27	IH-PRO-00006, Bulk Sampling of Material Suspected of Containing Asbestos	CP2-HS-2040, Asbestos Controls Program at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky	Х	Х
28	IH-PDD-00006, Biological Monitoring for Industrial Chemicals	CP2-HS-2014, Biological Monitoring for Industrial Chemicals	X	DUF6-U-SHP-0511 Biological Monitoring for Industrial Chemicals
29	IH-PDD-00002, Lead Compliance Program Description	CP3-HS-2034, Lead and Inorganic Arsenic Protection	Х	Х
30	IH-PRO-00050, Bloodborne Pathogens Exposure Control Plan	CP2-HS-4001, Bloodborne Pathogens and Other Potentially Infectious Material Exposure Control	ISSC-ESH-PR-029, Bloodborne Pathogens Program	Х
31	IH-PDD-00005, Chronic Beryllium Disease Prevention Program	CP2-HS-2001, Site Chronic Beryllium Disease	ISSC-ESH-PR-024, Chronic Beryllium Disease Integration Plan	Х
32	IH-PDD-00007, Occupational Health Program	CP3-HS-4002, Implementation of the Occupational Medicine Program	ISSC-ESH-PR-010, Occupational Health Program	DUF6-U-SHP-0501 Occupational Medicine Program

	FBP	4 Rivers	SST	OSMS/DUF6
33	OS-PRO-00010, Vehicle Safety	CP3-HS-5000, Vehicle Safety	ISSC-OM-PR-004, Industrial Equipment Operator Qualification	DUF6-U-GFP-0109 Management of Fleet Vehicles
	DD-PRO-00044, Vehicle Safety Inspection	CP3-PR-4000, Authorization For Use of Government Vehicles		DUF6-POL-071 Vehicle Safety Policy
		CP3-WM-3030, Commercial Motor VehicleOperations		
34	OS-PRD-00003, Electrical Utility Safety Program	CP3-SM-0019, Electrical Safety Guidelines	ISSC-ESH-PR-006, Electrical Safety	DUF6-U-SHP-0214, Electrical Safety
	OS-PRD-00001, Electrical Safety	CP3-SM-0052, Energized Electrical Work Permit		
35	OS-PRO-00068, Instructions for Lockout/Tagout	CP3-HS-2010, Instructions for Lockout/Tagout	ISSC-ESH-PR-007, Instructions for Lockout/Tagout	DUF6-U-GFP-0216 Control of Hazardous Energy (Lockout/Tagout
36	SM-PDD-00001, Hoisting and Rigging Program	CP3-SM-0051, Hoisting and Rigging	ISSC-ESH-PR-022, Hoisting and Rigging	Х
	DD-PRO-00136 Hoisting and Rigging Procedure			
37	OS-PRO-00020, Fall Prevention and Protection	CP3-HS-2014, Fall Prevention and Protection	ISSC-ESH-PR-030, Fall Protection	DUF6-U-SHP-0204 Fall Protection
38	OS-PRO-00031, Portable Ladders	CP3-HS-2011, Portable Ladders	X	X
39	OS-PRO-00061, Scaffolds	CP3-HS-2015, Scaffolds	X	X
40	QP-PRO-00030, Response to Abnormal Events and Conditions	X	ISSC-QA-PR-003, Event Fact-Finding	DUF6-U-SHP-0301 Accident/Incident Reporting
41	NSE-PRO-00002, Pre-Job Briefing and Post Job Review	Х	ISSC-PM-PR-002, Project Work Process	DUF6-U-SHP-0211, Hazard Analysis
			ISSC-ESH-PR-013, Environment, Safety, and Health Subcontractor Oversight Program	

	FBP	4 Rivers	SST	OSMS/DUF6
42	WPC-GUI-00004-F01, Walkdown Checklist	Х	ISSC-ESH-PR-013, Environment, Safety, and Health Subcontractor Oversight Program	DUF6 Form 9258 Subcontractor Readiness Checklist
43	QP-PRO-00004, Processing Operating Experience and Lessons Learned	Х	ISSC-QA-PR-003, Event Fact Finding	DUF6-U-CPL-0017 Operating Experience Program
44	EM-PRO-00026, Employee Response to Severe Weather	X	X	X
45	BS-PRO-00039, Request for Purchase	CP3-CP-0001, Request for Purchase	ISSC-BM-PR-005, Request for Proposal and Request for Quote	DUF6-U-PRP-0001 Purchasing Procedure
46	POEF-FBP-009, Owner/User Accreditation Program	CP3-EN-0313, Pressure Safety	Х	DUF6-U-PEP-1316 Pressure Safety Program
47	OS-PRO-00034, Storage, Handling, and Using Compressed Gases	X	ISSC-ESH-PR-033, Compressed Gases	DUF6-U-SHP-0102 General Safety Rules
48	EM-PDD-00002, Emergency Management Program	CP2-EP-1000, Paducah Site Emergency Management Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky CP2-EP-1001, Emergency Management Program for the U.S. Department of Energy Paducah Site, Paducah, Kentucky	CP2-EP-1000, Paducah Site Emergency Plan for Paducah Gaseous Diffusion Plant ISSC-ESH-PR-031, Emergency Operations Center Activities	DUF6-U-SHP-0307 Development/Maintenance of Hazards Surveys, Emergency Planning Hazards Assessments, and Emergency Action Levels FBP-EM-PL-0026 Site Emergency Plan 48CP2-EP-1000, Paducah Site Emergency Plan for Paducah Gaseous Diffusion Plant
49	IH-PRO-00051, Carcinogen Control	X	X	X
50	IH-PRO-00015, Occupational Noise Exposure and Hearing Conservation Program	CP2-HS-2002, Occupational Noise Exposure and Hearing Conservation Program	ISSC-ESH-PR-023, Occupational Noise Exposure and Hearing Conservation Program	DUF6-U-SHP-0502 Hearing Conservation Program

FBP	4 Rivers	SST	OSMS/DUF6
IH-PDD-00003, Reproductive Health Program Description	X	ISSC-RAD-PR-017, Reproductive Health Program	X
IH-PDD-00009, Silica	Χ	X	X
IH-PRO-00025, Release of Medical Records	Х	X	X
IH-PRO-00086, Controlled Substances (Drug) Testing	Х	Х	X
IH-PRO-00087 Health Services Radiographic (X-	Х	X	X
IH-PDD-00008, Fitness for Duty	Х	Х	DUF6-U-SHP-0501 Occupational Medicine Program
IH-PRO-00090, Calibration Program Biomedical Equipment	Х	X	X
IH-PRO-00091, Medical Radiological Decontamination	Х	X	X
IH-PRO-00093, Medical Visits and Employee Work Restrictions	Х	X	X
IH-PRO-00068, Transportation of III or Injured Off Site	Х	X	X
OS-PRO-00100, Reporting, Investigating, and Managing Occupational Injuries/Illnesses QP-PRO-00020, Problem	Х	ISSC-QA-PR-003, Event Fact Finding	DUF6-U-CPL-0018 Root Cause Analysis DUF6-U-QAP-0005 Issues Management
	IH-PDD-00003, Reproductive Health Program Description IH-PDD-00009, Silica IH-PRO-00025, Release of Medical Records IH-PRO-00086, Controlled Substances (Drug) Testing IH-PRO-00087 Health Services Radiographic (X-Ray) Program Requirements IH-PDD-00008, Fitness for Duty IH-PRO-00090, Calibration Program Biomedical Equipment IH-PRO-00091, Medical Radiological Decontamination IH-PRO-00093, Medical Visits and Employee Work Restrictions IH-PRO-00068, Transportation of III or Injured Off Site OS-PRO-00100, Reporting, Investigating, and Managing Occupational Injuries/Illnesses	IH-PDD-00003, Reproductive Health Program Description IH-PDD-00009, Silica IH-PRO-00025, Release of Medical Records IH-PRO-00086, Controlled Substances (Drug) Testing IH-PRO-00087 Health Services Radiographic (X- Ray) Program Requirements IH-PDD-00008, Fitness for Duty IH-PRO-00090, Calibration Program Biomedical Equipment IH-PRO-00091, Medical Radiological Decontamination IH-PRO-00093, Medical Visits and Employee Work Restrictions IH-PRO-00068, Transportation of Ill or Injured Off Site OS-PRO-00100, Reporting, Investigating, and Managing Occupational Injuries/Illnesses QP-PRO-00020, Problem	IH-PDD-00003, Reproductive Health

	FBP	4 Rivers	SST	OSMS/DUF6
62	OS-PRO-00057, Powered Industrial Trucks OS-PRO-00025, Government Owned/Fluor-BWXT Portsmouth LLC (FBP) Leased Equipment Procedure WM-PRO-00061, Material	CP3-SM-0020, Administrative Controls for Powered Industrial Trucks CP3-SM-0054, Mobile Construction Equipment	ISSC-OM-PR-004, Industrial Equipment Operator Qualification	DUF6-U-SHP-0213 DUF6 Powered Industrial Trucks
63	Handling NO-PRO-00065, Inspection of UF6 Handling Forklift and Forklift Fixture	X	X	X
64	OS-PRO-00022, Excavation/Penetration	CP3-HS-2016, Excavation and Penetration	ISSC-PM-PR-006, Excavation/Penetration Activities	Х
65	OS-PRO-00041, Housekeeping	Х	X	DUF6-U-SHP-0102 General Safety Rules
66	OS-PRO-00060, Safe Work Practices Around Water	CP3-HS-2017, Safe Work Practices Around Water	X	Х
67	OS-PRO-00014, Accident Prevention/Equipment Control Tags	X	ISSC-ESH-PR-017, Defective Equipment Tags	DUF6-C-GFP-0107 Accident Prevention, Equipment, and System Control Tags and Locks DUF6-X-GFP-0107 Administrative- Control and Defective-Equipment Tags DUF6-U-SHP-0208 Safety Signs, Tags, and Barriers
68	Х	Х	Х	OSMS-PLN-007 Radiation Protection Program OSMS-PLN-216, Environmental Radiation Protection Program
69	IH-PRO-00027, Laser Controls	X	X	X

	FBP	4 Rivers	SST	OSMS/DUF6
70	FP-PRO-00006, Fire Hazard Analysis FP-PRO-00004, Fire Protection Program FP-PDD-00001, Fire Protection Program Description FB-PRO-00006, Fire Hazard	CP2-FP-2000, Fire Protection Program Description for the Paducah Gaseous Diffusion CP3-FP-2006, Fire Safety Inspection, Facility Assessment, and Fire Hazard Analysis CP3-FP-2031, Control of	CP2-FP-2000, Fire Protection Program Description for the Paducah Gaseous Diffusion Plant, Paducah Kentucky ISSC-ESH-PR-027, Fire Protection and Evacuation Alarms	DUF6-POL-003, Fire Protection Statement DUF6-PLN-024 Fire Protection Description for the DUF6 Conversion Project DUF6-U-FPP-0803 Fire Prevention and Good Housekeeping Practices
	Analysis	Combustible Material and Ignition Source		
71	OS-PRO-00029, Construction and Work Zone Barricades and Signs	CP3-HS-2012, Construction and Work Zone Barricades and Signs	Х	DUF6-C-GFP-0107 Accident Prevention, Equipment, and System Control Tags and Locks DUF6-X-GFP-0107 Administrative- Control and Defective-Equipment Tags DUF6-U-SHP-0208 Safety Signs, Tags, and Barriers X
72 73	X	X	X	DUF6-U-QAP-0014 Supplier Quality Program Evaluation OSMS-PLN-003 Quality Assurance Program
74	X	CP1-HR-0123, Release of Employee Information	X	X
75	Х	CP1-HS-1000, Health and Safety Policy	X	DUF6-POL-060 Environment, Safety, and Health Policy
76	Х	CP1-HS-1001, Employee Safety Council	Х	DUF6-U-SHP-0101 Safety First Program

	FBP	4 Rivers	SST	OSMS/DUF6
77	X	CP2-EC-0131, Four Rivers Nuclear Partnership, LLC, Employee Concerns Program Paducah Gaseous Diffusion Plant, Paducah, Kentucky	X	DUF6-U-SHP-0101 Safety First Program
78	X	CP2-EN-0201, Configuration Management Program Description at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky	X	DUF6-U-PEP-1110, Operations Design Change Control
79	EM-PDD-00002, Emergency Management Program	CP2-EP-1000, Paducah Site Emergency Management Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky	CP2-EP-1000, Paducah Site Emergency Plan for Paducah Gaseous Diffusion Plant	DUF6-U-SHP-0307 Development/Maintenance of Hazards Surveys, Emergency Planning Hazards Assessments, and Emergency Action Levels FBP-EM-PL-0026 Site Emergency Plan CP2-EP-1000, Paducah Site Emergency Plan for Paducah Gaseous Diffusion Plant
80	Х	CP2-ES-0101, Environmental Management System for the Deactivation and Remediation Project, Paducah Gaseous Diffusion Plant, Paducah, Kentucky	ISSC-ESH-PL-006, Environmental Management System Description	X
81	Х	CP2-ES-0201, Laboratory Chemical Hygiene Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky	Х	X

	FBP	4 Rivers	SST	OSMS/DUF6
82	O FP-PRO-00006, Fire Hazard Analysis FP-PRO-00004, Fire Protection Program FP-PDD-00001, Fire Protection Program Description FB-PRO-00006, Fire Hazard Analysis	CP2-FP-2000, Fire Protection Program Description for the Paducah Gaseous Diffusion	CP2-FP-2000, Fire Protection Program Description for the Paducah Gaseous Diffusion	DUF6-POL-003, Fire Protection Statement DUF6-PLN-024 Fire Protection Description for the DUF6 Conversion Project
83	X	CP2-HR-0001, Four Rivers Nuclear Partnership, LLC, Human Resources Program, Paducah, Kentucky	SSI-HR-HBK-1, Employee Handbook	DUF6-U-HRP-0001 Human Resources Policy Manual
84	X	Х	X	OSMS-PLN-040 Integrated Safety Management System Plan
85	Х	CP2-HS-1007, General Safety Requirements Paducah Gaseous Diffusion Plant, Paducah, Kentucky	Х	DUF6-U-SHP-0102 General Safety Rules
86	Х	X	Х	OSMS-PLN-074, DUF6 Worker Safety and Health Program
87	X	X	X	OSMO-PLN-326 OSMS Chronic Beryllium Disease Prevention Program Paducah, Kentucky- OSMO-PLN-325 OSMS Chronic Beryllium Disease Prevention Program Portsmouth, Ohio-
88	IH-PRO-00015, Occupational Noise Exposure and Hearing Conservation Program	CP2-HS-2002, Occupational Noise Exposure and Hearing Conservation Program	ISSC-ESH-PR-023, Occupational Noise Exposure and Hearing Conservation Program	DUF6-U-SHP-0502 Hearing Conservation Program
89	IH-PRO-00028, Respiratory Protection Program	CP2-HS-2003, Respiratory Protection Program	ISSC-ESH-PR-015, Respiratory Protection Program	DUF6-U-SHP-0504 Respiratory Protection Program

	FBP	4 Rivers	SST	OSMS/DUF6
90	X	CP2-HS-2007, Hazardous Chemical Management Program	ISSC-ESH-PR-002, Hazard Communications	DUF6-U-SHP-0601, Hazardous Communications
91	IH-PDD-00006, Biological Monitoring for Industrial Chemicals	CP2-HS-2014, Biological Monitoring for Industrial Chemicals	X	DUF6-U-SHP-0511 Biological Monitoring for Industrial Chemicals
92	IH-PRO-00006, Bulk Sampling of Material Suspected of Containing Asbestos	CP2-HS-2040, Asbestos Controls Program at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky	Х	X
93	IH-PRO-00050, Bloodborne Pathogens Exposure Control Plan	CP2-HS-4001, Bloodborne Pathogens and Other Potentially Infectious Material Exposure Control	ISSC-ESH-PR-029, Bloodborne Pathogens Program	X
94	NSE-PDD-00001, Nuclear Criticality Safety Program Description Document	CP2-NSE-1000, Nuclear Criticality Safety Program Description Document at the Paducah Gaseous	X	DUF6-U-SMP-005 Safety Management Program Description for the DUF6 Conversion Project
95	X	CP2-OP-1100, Conduct of Operations Program at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky	X	X
96	BOP-PRO-00003, Decontamination and Demolition/Construction Project Planning WPC-PDD-00001, Integrated Work Control Program Description Piketon, Ohio	CP2-SM-1000, Activity Level Work Planning and Control Program for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky	ISSC-PM-PR-003, Work Planning and Control	DUF6-U-PRP-0001 Purchasing Procedure ESH Special Terms and Conditions, DUF6 Form 9063 DUF6-U-PRP-0034 Subcontract Technical Representative (STR
97	TRN-PL-00001, Training Program Plan	CP2-TR-0100, Training Program for the Paducah Gaseous Diffusion Plant Paducah, Kentucky	ISSC-ESH-PL-001, Training Program	DUF6-PLN-027 Personnel Selection, Training, and Qualification Management Plan DUF6-U-TRN-0001, Training and Qualification
98	X	CP2-TS-1000, Roles, Responsibilities, Authorities,	X	X

	FBP	4 Rivers	SST	OSMS/DUF6
99	BS-PRO-00039, Request for Purchase	CP3-CP-0001, Request for Purchase	ISSC-BM-PR-005, Request for Proposal and Request for Quote	DUF6-U-PRP-0001 Purchasing Procedure
100	Х	CP3-CP-0002, Acquisition Management	Х	X
101	X	CP3-EC-0121, Code of Business Conduct and Ethics	X	X
102	Х	CP3-EC-0147, Differing Professional Opinions	Х	X
103	Х	CP3-EN-0213, Design Analysis and Calculations	Х	DUF6-U-PEP-1110, Operations Design Change Control
104	POEF-FBP-009, Owner/User Accreditation Program	CP3-EN-0313, Pressure Safety	Х	DUF6-U-PEP-1316 Pressure Safety Program
105	FP-PRO-00072, Welding, Burning, and Hot Work	CP3-FP-2005, Welding, Burning and Hotwork	ISSC-ESH-PR-016, Welding, Burning, and Hotwork	DUF6-U-SHP-0801 Hot Work
106	FP-PRO-00006, Fire Hazard Analysis FP-PRO-00004, Fire Protection Program FP-PDD-00001, Fire Protection Program Description FB-PRO-00006, Fire Hazard	CP3-FP-2006, Fire Safety Inspection, Facility Assessment, and Fire Hazard Analysis	CP2-FP-2000, Fire Protection Program Description for the Paducah Gaseous Diffusion	DUF6-POL-003, Fire Protection Statement DUF6-PLN-024 Fire Protection Description for the DUF6 Conversion Project
	Analysis			

	FBP	4 Rivers	SST	OSMS/DUF6
107	O FP-PRO-00006, Fire Hazard Analysis FP-PRO-00004, Fire Protection Program FP-PDD-00001, Fire Protection Program Description	CP3-FP-2031, Control of Combustible Material and Ignition Source	CP2-FP-2000, Fire Protection Program Description for the Paducah Gaseous Diffusion Plant, Paducah Kentucky	DUF6-POL-003, Fire Protection Statement DUF6-PLN-024 Fire Protection Description for the DUF6 Conversion Project O
	FB-PRO-00006, Fire Hazard Analysis			
108	X	CP3-FP-2032, Means of Egress	Х	X
109	Х	CP3-HR-0112, Employee Discipline	Х	DUF6-U-HRP-0001 Human Resources Policy Manual
110	Х	CP3-HS-2000, Temperature Extremes	ISSC-ESH-PR-021, Temperature Extremes	DUF6-U-SHP-0514 Temperatures Extremes
111	X	CP3-HS-2003, Hazard Communication	ISSC-ESH-PR-002, Hazard Communication	DUF6-U-SHP-0601 Hazard Communications
112	IH-PRO-00022, Job Hazard Analysis	CP3-HS-2004, Job Hazard Analysis	ISSC-PM-PR-003, Work Planning and Control ISSC-ESH-PR-001, Hazard Assessments	DUF6-U-SHP-0211, Hazard Analysis
113	OS-PRO-00028, Work Stoppage Due to Environmental Safety and Health Quality Concerns	CP3-HS-2009, Stop/Suspend Work	ISSC-ESH-PR-009, Suspension of Work	DUF6-U-QAP-0022 Time-Out/Stop Work
114	OS-PRO-00068, Instructions for Lockout/Tagout	CP3-HS-2010, Instructions for Lockout/Tagout	ISSC-ESH-PR-007, Instructions for Lockout/Tagout	DUF6-U-GFP-0216 Control of Hazardous Energy (Lockout/Tagout
115	OS-PRO-00031, Portable Ladders	CP3-HS-2011, Portable Ladders	Х	X

	FBP	4 Rivers	SST	OSMS/DUF6
116	OS-PRO-00029, Construction and Work Zone Barricades and Signs	CP3-HS-2012, Construction and Work Zone Barricades and Signs	ISSC-ESH-PR-017, Defective Equipment Tags	DUF6-C-GFP-0107 Accident Prevention, Equipment, and System Control Tags and Locks
				DUF6-X-GFP-0107 Administrative- Control and Defective-Equipment Tags
				DUF6-U-SHP-0208 Safety Signs, Tags, and Barriers
117	OS-PRO-00020, Fall Prevention and Protection	CP3-HS-2014, Fall Prevention and Protection	ISSC-ESH-PR-030, Fall Protection	DUF6-U-SHP-0204 Fall Protection
118	OS-PRO-00061, Scaffolds	CP3-HS-2015, Scaffolds	X	X
119	OS-PRO-00022, Excavation/Penetration	CP3-HS-2016, Excavation and Penetration	ISSC-PM-PR-006, Excavation/Penetration Activities	, X
120	OS-PRO-00060, Safe Work Practices Around Water	CP3-HS-2017, Safe Work Practices Around Water	X	Х
121	IH-PRO-00082, Process Safety Management of Highly Hazardous Chemicals	CP3-HS-2018, Process Safety Management of Highly Hazardous Chemicals	Х	Х
122	IH-PRO-00017, Ergonomics Program	CP3-HS-2030, Ergonomics Applications	X	DUF6-U-SHP-0508 Ergonomics Program
123	IH-PRO-00038, Indoor Air Quality	CP3-HS-2033, Indoor Air Quality	Х	X
124	IH-PDD-00002, Lead Compliance Program Description	CP3-HS-2034, Lead and Inorganic Arsenic Protection	Х	Х
125	Х	CP3-HS-2035, Chromium (VI) and Cadmium Protection	X	Х
126	Х	CP3-HS-2036, Aerial Devices	X	X
127	IH-PRO-00049, Confined Space Program	CP3-HS-2055, Confined Space	ISSC-ESH-PR-019, Confined Space Program	DUF6-U-SHP-0512 Confined Space Program
128	IH-PDD-00007, Occupational Health Program	CP3-HS-4002, Implementation of the Occupational Medicine Program	ISSC-ESH-PR-010, Occupational Health Program	DUF6-U-SHP-0501 Occupational Medicine Program

	FBP	4 Rivers	SST	OSMS/DUF6
129	OS-PRO-00010, Vehicle Safety	CP3-HS-5000, Vehicle Safety	ISSC-OM-PR-004, Industrial Equipment Operator Qualification	DUF6-U-GFP-0109 Management of Fleet Vehicles
	DD-PRO-00044, Vehicle Safety Inspection	CP3-PR-4000, Authorization For Use of Government Vehicles		DUF6-POL-071 Vehicle Safety Policy
		CP3-WM-3030, Commercial Motor VehicleOperations		
130	BS-PRO-00024, Developing and Maintaining Performance Documents	CP3-OP-0002, Developing and Maintaining Performance Documents	ISSC-RM-PR-001, Controlled Documents	DUF6-U-GFP-0015 Technical Procedure Development
131	X	CP3-OP-0500, Performance/Process Observations and Tour Process	X	X
132	BS-PRO-00062, Records Management Process	CP3-OP-0025, Document Control Process	ISSC-RM-PR-001, Controlled Documents	DUF6-PLN-015 Records Management Plan
		CP3-RD-0010, Records Management Process	PGDP-RM-PR-001, Records Management	DUF6-U-DMP-0002 Records Management Procedure
		CP3-RD-0014, Records Identification and File Plan Development		
		CP2-RD-0001, Records Management Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky		
133	NSE-PRO-00141, Facility Management	CP3-OP-1117, Facility Inspections	Х	
	FMD-PRO-00001, Facility Management Division (FMD) Facility Management	CP3-OP-1118, Facility Management		DUF6-U-SHP-0103 Safety Walkthroughs
134	X	CP3-OP-2024, Initial Incident/Event Reporting	Х	X

	FBP	4 Rivers	SST	OSMS/DUF6
135	OS-PRO-00010, Vehicle Safety	CP3-PR-4000, Authorization For Use of Government Vehicles	ISSC-OM-PR-004, Industrial Equipment Operator Qualification	DUF6-U-GFP-0109 Management of Fleet Vehicles
	DD-PRO-00044, Vehicle Safety Inspection	CP3-WM-3030, Commercial Motor VehicleOperations		DUF6-POL-071 Vehicle Safety Policy
136	QP-PRO-00020, Problem Reporting and Issues Management	CP3-QA-3001, Issues Management	X	DUF6-U-QAP-0005 Issues Management
137	Xa	CP3-QA-3003, Standards and Requirements Management	Х	Х
138	QP-PRO-00019, Occurrence Reporting and Processing	CP3-QA-3005, Occurrence Reporting	ISSC-QA-PR-008, Occurrence Notification and Reporting	DUF6-U-CPL-0016 Occurrence Notification and Reporting
		CP3-QA-3004, Evaluation and Reporting of Potential PAAA/WSH Non-compliances		DUF6-U-CPL-0015 Nuclear Safety and WSHP Noncompliance Reporting
139	IH-PRO-00006, Bulk Sampling of Material Suspected of Containing Asbestos	CP2-HS-2040, Asbestos Controls Program at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky	X	X
140	X	CP3-QA-3008, Fact Finding	ISSC-QA-PR-003, Event Fact Finding	X
141	X	CP3-SI-0001, Site Interface Agreement	X	X
142	OS-PRD-00003, Electrical Utility Safety Program	CP3-SM-0019, Electrical Safety Guidelines	ISSC-ESH-PR-006, Electrical Safety	DUF6-U-SHP-0214, Electrical Safety
	OS-PRD-00001, Electrical Safety			
143	OS-PRD-00003, Electrical Utility Safety Program	CP3-SM-0052, Energized Electrical Work Permit	Х	Х

	FBP	4 Rivers	SST	OSMS/DUF6
144	O OS-PRO-00057, Powered Industrial Trucks OS-PRO-00025, Government Owned/Fluor-BWXT Portsmouth LLC (FBP) Leased Equipment Procedure	CP3-SM-0020, Administrative Controls for Powered Industrial Trucks	ISSC-OM-PR-004, Industrial Equipment Operator Qualification	DUF6-U-SHP-0213 DUF6 Powered Industrial Trucks
145	SM-PDD-00001, Hoisting and Rigging Program DD-PRO-00136 Hoisting and Rigging Procedure	CP3-SM-0051, Hoisting and Rigging	ISSC-ESH-PR-022, Hoisting and Rigging	Х
146	OS-PRO-00057, Powered Industrial Trucks OS-PRO-00025, Government Owned/Fluor-BWXT Portsmouth LLC (FBP) Leased Equipment Procedure WM-PRO-00061, Material Handling	CP3-SM-0020, Administrative Controls for Powered Industrial Trucks CP3-SM-0054, Mobile Construction Equipment	ISSC-OM-PR-004, Industrial Equipment Operator Qualification	DUF6-U-SHP-0213 DUF6 Powered Industrial Trucks
147	WPC-PDD-00001, Integrated Work Control Program Description Piketon, Ohio	CP3-SM-1101, Work Package Development	ISSC-PM-PR-003, Work Planning and Control	DUF6-U-GFP-0108, Control of Work
148	WPC-PDD-00001, Integrated Work Control Program Description Piketon, Ohio	CP3-SM-1102, Activity Level Work Execution and Closeout	ISSC-PM-PR-003, Work Planning and Control	DUF6-U-GFP-0108, Control of Work
149	BS-PRO-00039, Request for Purchase	CP3-SP-0005, Preparation of Request for Proposal	ISSC-BM-PR-005, Request for Proposal and Request for Quote	DUF6-U-PRP-0001, Purchasing Procedure

	FBP	4 Rivers	SST	OSMS/DUF6
150	BS-PRO-00114, Vendor Oversight	CP3-SP-0018, Subcontractor Oversight	ISSC-ESH-PR-013, Environment, Safety, and Health Subcontractor	DUF6 Form 9258 Subcontractor Readiness Checklist
	BS-PRO-00149, Integrated Vendor Oversight Process		Oversight Program	ESH Special Terms and Conditions, DUF6 Form 9063
				DUF6-U-PRP-0034 Subcontract Technical Representative (STR
151	IH-PRO-00024, Industrial Hygiene Sampling	CP4-HS-2000, Industrial Hygiene Sampling	ISSC-ESH-PR-032, General Industrial Hygiene Program	DUF6-U-SHP-0505 Exposure Assessments (Non-Radiological
152	NSE-PRO-00024, Hazard and Accident Analysis NSE-PRO-00007, Preliminary Hazard Screening	CP4-NS-2005, Preliminary Hazard Screening Process	ISSC-ESH-PR-013, Environment, Safety, and Health Subcontractor Oversight Program ISSC-PM-PR-003, Work Planning and Control	DUF6-U-SMP-005 Safety Management Program Description for the DUF6 Conversion Project DUF6-U-GFP-0108 Control of Work
			ISSC-ESH-PR-001, Hazard Assessments	
153	Х	CP4-SS-IRRA, C-208 Indoor Live Fire Range Risk Analysis	Х	X
154	X	CP4-SS-MOTSOP Chapter 1, Firearms, Ammunition, and Safety Procedures	Х	Х
155	Х	CP4-SS-MOTSOP Chapter 2, Indoor Range Operations	Х	X
156	Х	CP4-SS-MTSOP Chapter 15, PF Armorer Procedure	Х	X
157	X	CP4-SS-MTSOP Chapter 3, Instructor Recertification Requirements	Х	X
158	X	CP4-SS-MTSOP Chapter 4, Weapons Cleaning	Х	X
159	Х	CP4-SS-MTSOP Chapter 5, Duds, Damaged and Unusable Ammunition and Explosives	Х	X

	FBP	4 Rivers	SST	OSMS/DUF6
160	Х	CP4-SS-PFGO 1, Duty Standards	X	X
161	Х	CP4-SS-PFSA, Protective Force Self-Assessment Program	Х	Х
162	Х	CP4-SS-SOP 10, Weapons Authorization Credential Submittal	Х	Х
163	Х	CP5-HS-0007, TAKE-2 Incentive Award Team Charter	Х	Х
164	Х	X	SSI-HR-HBK-1, Employee Handbook	DUF6-U-HRP-0001 Human Resources Policy Manual
165			CP2-EP-1000, Paducah Site Emergency Plan for Paducah Gaseous Diffusion Plant	-
166			CP2-FP-2000, Fire Protection Program Description for the Paducah Gaseous Diffusion Plant, Paducah Kentucky	
167	Х	X	CP3-OP-0301, Operation of the Criticality Accident Alarm System	Х
168			ISSC-ESH-PL-001, Training Program	
169	X	X	ISSC-ESH-PL-002, Waste Management Plan	OSMS-PLN-005 Waste Management Plan
170			ISSC-ESH-PL-006, Environmental Management System Description	management ran
171			ISSC-ESH-PL-008, Radiation Protection Program	
172			ISSC-ESH-PL-010, Integrated Safety Management System Description	

	FBP	4 Rivers	SST	OSMS/DUF6
173	X	X	ISSC-ESH-PL-013,	OSMS-PLN-216, Environmental
			Environmental Radiological	Radiation Protection Program
			Protection Program	
174	X	X	ISSC-QA-PL-001, Quality	DUF6-U-QAP-0014 Supplier Quality
			Assurance Plan	Program Evaluation
				OSMS-PLN-003 Quality Assurance
475			1000 5011 50 004 0	Program
175	Χ	X	ISSC-ESH-PO-001, See,	X
470			Flee, and Notify	V
176	Χ	X	PGDP-OM-PR-001,	X
			Operation of the C-752-B	
177			Fuel Dispensing Station PGDP-RM-PR-001, Records	
177				
178			Management ISSC-BM-PR-005, Request	
170			for Proposal and Request for	
			Quote	
179			ISSC-ESH-PR-001, Hazard	
175			Assessments	
180			ISSC-ESH-PR-002, Hazard	
			Communication	
181			ISSC-ESH-PR-006,	
			Electrical Safety	
182			ISSC-ESH-PR-007,	
			Instructions for	
			Lockout/Tagout	
183			ISSC-ESH-PR-008,	
			Accident/Incident Reporting	
184			ISSC-ESH-PR-009,	
			Suspension of Work	
185			ISSC-ESH-PR-010,	
			Occupational Health	
			Program	
186			ISSC-ESH-PR-013,	
			Environment, Safety, and	
			Health Subcontractor	
			Oversight Program	

	FBP	4 Rivers	SST	OSMS/DUF6
187			ISSC-ESH-PR-015,	
			Respiratory Protection	
			Program	
188			ISSC-ESH-PR-016,	
			Welding, Burning, and	
			Hotwork	
189			ISSC-ESH-PR-017,	
			Defective Equipment Tags	
190			ISSC-ESH-PR-019,	
			Confined Space Program	
191	X	X	ISSC-ESH-PR-020,	DUF6-U-SHP-0210, Personal
			Personal Protective	Protective Equipment
			Equipment	
192			ISSC-ESH-PR-021,	
			Temperature Extremes	
193	Χ	X	ISSC-ESH-PR-022, Hoisting	X
			and Rigging	
194			ISSC-ESH-PR-023,	
			Occupational Noise	
			Exposure and Hearing	
			Conservation Program	
195			ISSC-ESH-PR-024, Chronic	X
			Beryllium Disease	
			Integration Plan	
196	X	X	ISSC-ESH-PR-027, Fire	X
			Protection and Evacuation	
			Alarms	
197			ISSC-ESH-PR-029,	X
			Bloodborne Pathogens	
			Program	
198			ISSC-ESH-PR-030, Fall	
			Protection	
199	X	X	ISSC-ESH-PR-031,	X
			Emergency Operations	
			Center Activities	
200			ISSC-ESH-PR-032, General	
			Industrial Hygiene Program	

	FBP	4 Rivers	SST	OSMS/DUF6
201		X	ISSC-ESH-PR-033,	X
			Compressed Gases	
202	X	X	ISSC-OM-PR-004, Industrial	DUF6-U-SHP-0213 DUF6 Powered
			Equipment Operator	Industrial Trucks
			Qualification	
203			ISSC-PM-PR-002, Project	
			Work Process	
204			ISSC-PM-PR-003, Work	
			Planning and Control	
205	X	X	ISSC-PM-PR-005, Control of	X
			Measuring and Test	
			Equipment	
206			ISSC-PM-PR-006,	X
			Excavation/Penetration	
			Activities	
207	X		ISSC-QA-PR-003, Event	
			Fact-Finding	
208	X	X	ISSC-QA-PR-004, Control of	X
			Nonconforming Items and	
			Services	
209			ISSC-QA-PR-008,	
			Occurrence Notification and	
			Reporting	
210		X	ISSC-RAD-PR-017,	X
			Reproductive Health	
			Program	
211			ISSC-RM-PR-001,	
			Controlled Documents	
212				OSMS-PLN-001 Project
				Management Plan
213				OSMS-PLN-003 Quality Assurance
				Program
214				OSMS-PLN-005 Waste
				Management Plan
215				OSMS-PLN-007 Radiation
				Protection Program
216	X	X	X	DUF6-PLN-011 Cylinder
				Surveillance and Maintenance Plan

	FBP	4 Rivers	SST	OSMS/DUF6
217	X	X	X	DUF6-PLN-014 Conversion
				Facilities Operations and
				Maintenance Plan
218				OSMS-PLN-015 Records
				Management Plan
219				DUF6-PLN-024 Fire Protection
				Description for the DUF6
000				Conversion Project
220				DUF6-PLN-027 Personnel
				Selection, Training, and
004				Qualification Management Plan
221				OSMS-PLN-040 Integrated Safety
200		V	V	Management System Plan
222	X	X	X	PGDP-SS-PL-007 Paducah Gaseous Diffusion Plant Site
223	X	X	X	Security Plan PMA/PORTS/16-0754 Portsmouth
223	*	^	^	Gaseous Diffusion Plant Site
				Security Plan
224				CP2-EP-1000 Paducah Site
224				Emergency Management Plan
225				FBP-EM-PL-0026 Site Emergency
223				Plan
226				DUF6-POL-003 Fire Protection
				Statement
227	Х	X	X	DUF6-PLN-047 Sampling and
				Analysis Plan
228				DUF6-POL-060 Environment.
				Safety, and Health Policy
229				DUF6-POL-071 Vehicle Safety
				Policy
230				DUF6-U-SMP-0005 Safety
				Management Program Description
				for the DUF6 Conversion Project
231				DUF6-U-DMP-0002 Records
				Management Procedure
232				DUF6-U-PEP-1316 Pressure Safety
				Program

	FBP	4 Rivers	SST	OSMS/DUF6
233				DUF6-U-HRP-0001 Human
				Resources Policy Manual
234	X	X	X	DUF6-C-CYP-2426 Cold Pressure
				Check
235	X	X	X	DUF6-C-CYP-2524 Replacement of
				Non-Fissile UF6 Cylinder Valves
				and Plugs
236				DUF6-C-GFP-0107 Accident
				Prevention, Equipment, and System
				Control Tags and Locks
237				DUF6-U-GFP-0015 Technical
				Procedure Development
228				DUF6-U-GFP-0108 Control of Work
239				DUF6-U-GFP-0109 Management of
				Fleet Vehicles
240				OSMS-U-QAP-0005 Issues
				Management
241				DUF6-U-QAP-0012 Independent
				Assessments
242				DUF6-U-QAP-0013 Management
				Assessments
243	X	X	X	DUF6-U-QAP-0014 Supplier Quality
				Program Evaluation
244				DUF6-U-QAP-0022 Time-Out/Stop
				Work
245				DUF6-U-CPL-0015 Nuclear Safety
				and WSHP Noncompliance
				Reporting
246				DUF6-U-CPL-0016 Occurrence
				Notification and Reporting
247	QP-PRO-00004, Processing	X	X	DUF6-U-CPL-0017 Operating
	Operating Experience and			Experience Program
	Lessons Learned			
248	X	X	X	DUF6-U-CPL-0018 Root Cause
				Analysis
249	X	X	X	DUF6-U-CPL-0019 Trending

	FBP	4 Rivers	SST	OSMS/DUF6
250	Χ	X	X	DUF6-U-CPL-0104 Computerized
				Accident and Incident Reporting
				System (CAIRS) Reporting
				Procedure
251				DUF6-U-GFP-0216 Control of
				Hazardous Energy (Lockout/Tagout
252				DUF6-U-SHP-0101 Safety First
				Program
253				DUF6-U-SHP-0102 General Safety
				Rules
254				DUF6-U-SHP-0103 Safety
				Walkthroughs
255				DUF6-U-SHP-0204 Fall Protection
256				DUF6-U-SHP-0208 Safety Signs,
				Tags, and Barriers
257				DUF6-U-SHP-0210 Personal
				Protective Equipment
258				DUF6-U-SHP-0211 Hazard Analysis
259				DUF6-U-SHP-0213 DUF6 Powered
				Industrial Trucks
260				DUF6-U-SHP-0214 Electrical
				Safety
261				DUF6-U-SHP-0301
				Accident/Incident Reporting
262				DUF6-U-SHP-0307
				Development/Maintenance of
				Hazards Surveys, Emergency
				Planning Hazards Assessments,
				and Emergency Action Levels
263				DUF6-U-SHP-0501 Occupational
				Medicine Program
264				DUF6-U-SHP-0502 Hearing
				Conservation Program
265				DUF6-U-SHP-0504 Respiratory
				Protection Program
266				DUF6-U-SHP-0505 Exposure
				Assessments (Non-Radiological

	FBP	4 Rivers	SST	OSMS/DUF6
267				DUF6-U-SHP-0508 Ergonomics
				Program
268				DUF6-U-SHP-0511 Biological
				Monitoring for Industrial Chemicals
269				DUF6-U-SHP-0512 Confined Space
				Program
270				DUF6-U-SHP-0514 Temperatures
				Extremes
271				DUF6-U-SHP-0601 Hazard
				Communications
272				DUF6-U-SHP-0801 Hot Work
273				DUF6-U-PRP-0001 Purchasing
				Procedure
274				DUF6-U-PRP-0034 Subcontract
				Technical Representative (STR
275	X	X	Χ	DUF6-U-FPP-0803 Fire Prevention
				and Good Housekeeping Practices
276	X	X	Χ	DUF6-X-CYP-2520 Portsmouth
				UF6 Cylinder Surveillance and
				Maintenance Program
277	X	X	Χ	DUF6-X-CYP-2521 UF6 Field Cold
				Pressure Check and Minor Valve
				Repair
278			X	DUF6-X-GFP-0107 Administrative-
				Control and Defective-Equipment
				Tags
279	Χ	X	X	DUF6 Form 9257 High Risk Review
				Board Form
280				DUF6 Form 9258 Subcontractor
				Readiness Checklist
281				DUF6-CHART-23-002 High Risk
			.,	Review Board Charter
282	X	X	X	DUF6-POL-048, Safety Culture
283				DUF6-PLN-040, Integrated Safety
004				Management System Plan
284				DUF6-U-TRN-0001, Training and
				Qualification

	FBP	4 Rivers	SST	OSMS/DUF6
285				ESH Special Terms and Conditions,
				DUF6 Form 9063
286				DUF6-U-HRP-0001, Human
				Resources Policy Manual
287				DUF6-PLN-216, Environmental
				Radiation Protection Program
288				DUF6-U-PRP-0001, Purchasing
				Procedure
289				DUF6-U-PEP-1110, Operations
				Design Change Control