

Environment, Safety and Health for Onsite Work

Work must be performed in accordance with the U.S. Department of Energy Acquisition Regulation (Integrated Safety Management DEAR 970.5223-1 clause), 10 CFR 851, Worker Safety and Health Program (WSHP), and all applicable federal regulations and site-specific requirements.

For the purposes of DUF6 Form 9063,

- "Safety" encompasses environment, safety, and health, including pollution prevention and waste minimization; and
- 2. "Employees" include subcontractor and lower-tier subcontractor employees.
- A. Suspect/Counterfeit Materials and Equipment

The Subcontractor will comply with the requirements established in the contract terms and conditions related to restrictions and controls of suspect and counterfeit materials and equipment.

- B. DUF6 operates with a zero accident philosophy and a belief that all accidents are preventable. In performing work under this Subcontract, the Subcontractor shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of work. The Subcontractor shall exercise a degree of care commensurate with the work and the associated hazards. The Subcontractor shall ensure that management of environment, safety, and health functions and activities becomes an integral, but visible, part of the Subcontractor's work planning and execution processes. It is expected that the subcontractor will follow the values and core principles identified in the DUF6 ESH Policy (DUF6-POL-060) Attachment A.
- C. DUF6 provides 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 ensures that work is performed in accordance with applicable requirements of 10 CFR 851, including any compliance order(s).
- D. Attachment B, *List of Workplace Safety and Health Requirements*, lists the health and safety <u>requirements</u> for DUF6 (and its subcontractors) work. This list details requirements such as ANSI, ASME, DOE, NFPA, and various CFRs. (SEND COPY OF PLN-074 & PLN-040 TO ALL AWARDEEs).

DUF6's WS&H Program and Integrated Safety Management System (ISMS) requirements apply to all operations including design, construction, operation, maintenance, and environmental restoration activities.

Unless otherwise specified in the contract document, DUF6 subcontractors working on-site will work under the DUF6 Worker Safety and Health and Integrated Safety Management Systems program requirements established in this document.

Management Commitment and Employee Involvement

"Line Management" is responsible for the protection of employees, the public, and the environment. Line Management includes those Subcontractor and lower-tier subcontractor employees managing or supervising employees performing work. Line Management shall:

- 1. Hold personnel accountable for meeting responsibilities.
- 2. Establish clear and unambiguous lines of authority and responsibility for ensuring ES&H are established and maintained at all organizational levels.
- Assign responsibilities so those members of the organization know what performance is expected of them.



- 4. Provide adequate authority and resources so that responsibilities can be met.
- 5. Ensure personnel possess the experience, knowledge, skills, and abilities that are necessary to discharge their responsibilities. Ensure that this knowledge, skills, and/or abilities are documented as necessary to provide verifiable evidence such as training certificates, qualification cards, or similar as applicable.
- 6. Ensure employee understands the hazards and how to prevent exposure to such hazards.
- Ensure supervisory responsibilities include reinforcing employee training through feedback and enforcement.
- 8. Have a new-hire orientation program.
- 9. Ensure resources are effectively allocated to address ES&H, programmatic, and operational considerations. Protecting employees, the public, and the environment is a priority whenever activities are planned and performed.
- 10. Report all near-misses, *potential* employee exposures/injuries/illnesses/environmental releases/spills/leaks IMMEDIATELY.

E. Green Purchasing

The Subcontractor, pursuant to DOE Order 436.1, Departmental Sustainability, Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, and 13514, Federal Leadership in Environmental, Energy, and Economic Performance, shall provide its services in a manner that promotes the natural environment, reduces greenhouse gas emissions and protects the health and well-being of Federal employees, contract service providers and visitors using the facility, including supporting the DOE environmentally preferable initiatives for recycled products, bio-based products, energy efficient products, computer products, non-ozone depleting alternative products and water efficient plumbing products to the extent that the services provided by subcontractor require provision of any of the above types of products. The initiatives important to these Orders are explained on the following Government or Industry Internet Sites:

- Recycled Content Products are described at http://epa.gov/cpg.
- 2. Biobased Products are described at http://www.biopreferred.gov/.
- 3. Energy efficient products are at http://energystar.gov/products for Energy Star products.
- 4. Energy efficient products are at http://femp.energy.gov/procurement for FEMP designated products.
- 5. Environmentally preferable and energy efficient electronics including desktop computers, laptops and monitors are at http://www.epeat.net the Electronic Products Environmental Assessment Tool (EPEAT) the Green Electronics Council site.
- 6. Greenhouse gas emission inventories are required, including Scope 3 emissions which include contractor emissions. These are discussed at Section 13 of Executive Order 13514 which can be found at http://www.archives.gov/federal-register/executiveorders/disposition.html.
- 7. Non-Ozone Depleting Alternative Products are at http://www.epa.gov/ozone/strathome.html.
- 8. Water efficient plumbing products are at http://epa.gov/watersense.

Subcontractor shall flow down the requirement for Green Purchasing to subcontractors to support the DOE environmentally preferable initiatives for recycled products, bio-based products, energy efficient products, computer products, non-ozone depleting alternative products and water efficient plumbing products.



DUF6 Form 9063 incorporates DEAR 952.223-78, Sustainable Acquisition Program (Oct 2010) by reference as if it was incorporated in its entirety. For Department of Energy Acquisition Regulation (DEAR) provisions incorporated by reference, "Contractor" means Subcontractor and "Contracting Officer" means the Contractors Procurement Representative. Government means the owner or the Contractor except that the term "Government" or its authorized representatives shall retain its original meaning where (1) the provision pertains to, addresses or governs rights and obligations in property (real, personal or intellectual), (2) a right, act, authorization or obligation can be granted or performed only by the Government (e.g., under the Nuclear Hazards Indemnity Agreement provision), (3) the intent of the provision is to provide benefit or protection to the Government, or (4) when access to the subcontractor's proprietary financial or other data is required. DEAR clauses can be found at http://www.management.energy.gov/DEAR.htm. Upon request, DUF6 will make their full text available.

F. Hazard Prevention and Control

- Before work is performed, the associated hazards must be evaluated, and an agreed-upon set of ES&H standards and requirements must be established which, if properly implemented, provide adequate assurance that employees, the public, and the environment are protected from adverse consequences.
- 2. Written, properly authorized, current permits (e.g., confined space, LO/TO, environmental) or other technical work documents (e.g. work packages) are required <u>before</u> work begins. Technical work documents provide details on the type of activity to be performed and the safety requirements necessary to perform the job. DUF6 shall provide the technical work documents, unless ES&H approves the Subcontractor's program documents. All technical work documents, including those provided by Subcontractor, shall be kept at a designated area of the workplace and the documents must be strictly followed.
- 3. Line Management's responsibilities shall include analyzing the work to identify hazards and implementing appropriate controls, as well as ensuring that the technical work documents are adhered to and to be vigilant for changing conditions which may require modifications to the technical work documents and/or a pause until the newly recognized hazards may be effectively controlled.
- 4. Engineering and administrative controls shall be incorporated to prevent and mitigate hazards and tailored to the work being performed and the associated hazards whenever possible. Personal protective equipment will only be used to supplement the engineering/administrative controls and will used as a "last line of defense". Emphasis should be on designing the work and/or controls to reduce or eliminate the hazards, thus preventing "accidents."
- 5. Releases and exposures shall be eliminated, mitigated, or otherwise controlled. All potential exposures/releases shall be reported IMMEDIATELY!!!
- 6. Line Management shall ensure that current and potential scope of work hazards are analyzed, identified, correct and/or controlled as work progresses being ever vigilant for changing conditions or unanticipated/recognized hazards. Hazards shall be eliminated/controlled via the following methodology:
 - a. First through elimination or substitution of the hazards where feasible and appropriate;
 - b. Then through engineering controls where feasible and appropriate;



- c. Next through safe work procedures and administrative controls that are understood, followed, and reinforced where feasible and appropriate; and
- d. Finally, by use of personal protective equipment (PPE).
- Line Management shall ensure that all equipment is maintained per manufacturer's instructions or per an established technical basis.
- 8. The conditions/requirements for operations must be established and agreed upon by DUF6 and the Subcontractor. These agreed-upon subcontract conditions/requirements are binding upon the Subcontractor. The extent of documentation and level of authority shall be tailored to the complexity and hazards associated with the work.
- 9. Upon request, the Subcontractor shall complete and submit a Major Equipment Declaration that reflects maintenance, operation, and inspection of their equipment.
- 10. The Subcontractor shall provide to the DUF6 Subcontract Technical Representative (STR) copies of Safety Data Sheets (SDS) and receive approval <u>prior</u> to bringing chemicals on site. All chemicals brought on site shall be labeled in accordance with 29 CFR 1910.1200. In addition, the Subcontractor shall provide the DUF6 STR with a Form 1389, Chemical Procurement Form (Attachment C), prior to being brought on site. All chemicals stored on site shall follow the chemical's manufacturer's and DUF6 storage guidelines, as applicable.
- 11. Hoisting and Rigging including crane/hoist operations will follow the requirements contained in DOE Standard 1090 (DOE-STD-1090-11, Hoisting and Rigging).
- a. Proof of crane operator certification will be provided to the DUF6 STR at least 2 days prior to bringing the certified operator on site, as applicable.
- b. Additionally, all designed flagmen, signalers, riggers, and associated hoisting and rigging related personnel shall have the required proof of qualification submitted at least 1 day prior to their being approved to perform the designated function, as applicable.
- Outrigger pad mats SHALL BE USED on all lifts where outriggers are used for lifting unless permission is obtained to waive this requirement.
- d. All hoisting and rigging equipment will be inspected by the DUF6 Project prior to being allowed to operate/be used for the first time on Site.
- 12. The Subcontractor shall establish a medical program that provides first aid treatment and medical approval if required for specific activities. Upon request, the Subcontractor must provide DUF6 with the company's principal medical provider and evidence of employee medical approvals, as applicable.
- 13. The Subcontractor shall establish a medical clearance/surveillance program, as applicable. The program shall include monitoring employees who may be occupationally exposed to health hazards associated with heavy metals, occupational noise, and other agents that are covered under OSHA health standards.



- 14. The Subcontractor shall manage and perform work in accordance with the documented Worker Safety and Health plan. The Subcontractor will have provisions describing how they will perform/comply with the following requirements:
 - a. Perform the scope of work;
 - b. Identify and analyze hazards associated with the work;
 - Develop/implement feedback on adequacy of controls and continue to improve safety management;
 - d. Perform work within controls and applicable regulations.
 - e. Provide the tools and equipment necessary for safe performance of work. Tools and equipment (i.e., PPE, hand tools, power tools, ladders, scaffolds, hoists, vehicles, and mobile equipment, etc.) brought onto the site shall meet all federal, state, and local laws, regulations, and standards (OSHA, American National Standards Institute [ANSI], NFPA, etc.) and are subject to inspection and approval by DUF6 personnel. Tools and equipment shall be regularly inspected and maintained by the Subcontractor. Subcontractor employees shall be responsible for using the proper tool for the job.
- 15. The Subcontractor will describe how they will:
 - a. Establish and communicate a clear goal for the ES&H plan and objectives for meeting that goal.
 - b. Provide for compliance with daily safety and health inspections of the workplace, to include abatement of safety and health issues as necessary.
 - c. Maintain daily housekeeping standards.
 - d. Establish, document and implement safety performance objectives, performance measures and commitments.
 - e. Ensure that all subcontractor personnel and visitors understand that they Have "Stop Work Authority" and this authority may be exercised without fear of reprisal.
 - f. The Subcontractor may maintain it's company's ES&H plan while working under this Subcontract. However, the subcontractor will adhere and follow the provisions of the DUF6 Worker Safety and Health Program (DUF6-PLN-074 and the ISMS Plan, DUF6-PLN-040). Additionally, the subcontractor will follow the DUF6 Hazardous Energy Control Program (DUF6-U-GFP-0216), the DUF6 Confined Space Entry Program (DUF6-U-SHP-0512), among others dependent upon the scope of work to be performed. DUF6 will demand the contractor adhere to the requirements of 10 CFR 851 as described in Programs DUF6-PLN-074 and 040 as a minimum. Any request for a variance or exemption must be requested from DUF6 in writing and approval granted in writing.



- g. On an annual basis, or as otherwise reasonably requested by DUF6, the Subcontractor shall review and update, for DUF6 approval, its safety performance objectives, performance measures, and commitments consistent with and in response to DUF6 program and budget execution guidance and direction. Subcontractor shall identify and allocate sufficient resources to meet the safety objectives and performance commitments as well as maintain the integrity of the entire ES&H Program. Accordingly, the ES&H Program and costs associated with maintaining it shall be integrated into the Subcontractor's business processes, including, but not necessarily limited to, work planning, budgeting, authorization, execution, and change control.
- h. Subcontractor shall maintain the current year OSHA 300 Log and Summary at DUF6. DUF6 strives to work with companies that maintain and EMR <1.0 and a Total Recordable Case Rate or <1.0</p>
- i. The Subcontractor shall comply with all identified technical work documents and assist DUF6 in complying with ES&H requirements, all applicable laws, regulations, and DOE directives. The Subcontractor shall cooperate with federal and nonfederal agencies having jurisdiction over ES&H matters under this Subcontract.
- j. Environmental Compliance The Subcontractor shall comply with all applicable environmental protection laws, Executive Orders, ordinances, regulations, directives, and codes. The Subcontractor shall adhere to the applicable environmental regulations as delineated in the Statement of Work. Upon request, the Subcontractor shall submit an Environmental Compliance Plan (ECP) outlining the methods proposed to address the environmental requirements specified in the statement of work, including waste management, storage, and disposal. The ECP shall specify the person responsible for ensuring the requirements are met.
- k. Radiological Control Compliance The Subcontractor shall comply with all applicable radiological control regulations and requirements of the DOE, and shall take all reasonable precautions in the performance of the work under this order to protect the safety and health of employees and members of the public. The Subcontractor shall adhere to the applicable radiological control as delineated in the Statement of Work. 10 CFR 835, Occupational Radiation Protection and other DOE contractual radiological control requirements flow down to Subcontractors All Subcontractor personnel shall conform to applicable DUF6 and area specific radiological control rules and procedures. The Subcontractor moving any nonexempt sealed radioactive source and/or radiation generating devices to or from DUF6 shall include in the radiological control plan specific methods, operational procedures, and person responsible for compliance with regulations in performance of this activity.
- I. Compliance to Federal, State, and Local Regulations All subcontract personnel on DUF6 property shall comply with the requirements of 10 CFR 851; DOE Orders 225.1A; 231.1A, Change I; and 420.1B and other applicable federal, state, and local standards. These laws, regulations, and standards include, but are not limited to, OSHA, Department of Transportation/traffic laws, ANSI, American Society of Mechanical Engineers, and NFPA.
- m. Subcontractors shall comply with the applicable safety and health requirements for their covered workplace as referenced in 10 CFR 851.23, Safety and Health Standards. All Subcontractor personnel shall conform to applicable DUF6 and/or specific occupational safety and health rules and procedures as delineated in Statement of Work.



- n. The Subcontractor shall regularly inspect the workplace to ensure compliance to these standards and immediately correct any identified deficiencies.
- All DUF6 subcontractors working on-site will work under DUF6's approved Worker Safety and Health program unless a written variance or exemption is issued to the subcontractor by DUF6. The contract between DUF6 and the subcontractor will contain specific contract scope, applicable worker safety and health requirements, and other terms and conditions.
- p. Safety and Health Training shall ensure supervisory responsibilities include ensuring compliance to OSHA, DOE, and State specific OSHA mandated training requirements, where applicable, to include but not limited to, hearing conservation, respiratory protection medical clearances/fit testing/training, crane operators certification, and hazard communication, as applicable.
- q. The Subcontractor shall promptly evaluate and resolve any noncompliance with applicable ES&H requirements. If the Subcontractor fails to provide resolution or, if at any time, the Subcontractor's acts or failures to act causes substantial harm or an imminent danger to the environment or health and safety of employees or the public, DUF6 may issue an order stopping work in whole or in part. Any stop work order issued by DUF6 under DUF6 Form 9063, or issued by the Subcontractor to a lower-tier subcontractor in accordance with requirements of this Clause shall be without prejudice to any other legal or contractual rights of DUF6. In the event that DUF6 issues a stop work order, an order authorizing the resumption of the work may be issued at the discretion of DUF6. The Subcontractor shall not be entitled to an extension of time or additional fee for damages by reason of, or in connection with, any work stoppage order in accordance with this Clause.
- r. The Subcontractor is responsible for compliance with the ES&H requirements applicable to this Subcontract regardless of the performer of the work.
 - 1. Subcontractor must ensure that legal, contractual, and technical requirements are flowed down to lower tier subcontractors. These include, but are not limited to, Stop Work Authority, Worker Safety and Health Program, and Integrated Safety Management (ISM) DOE Acquisition Regulation (DEAR) clause. The prime subcontractor is responsible for ensuring that these requirements are flowed down to their lower tier subcontractors. DUF6 will hold the prime contractor responsible for the performance of the lower tier subcontractors in adhering to the requirements spelled out in these terms and conditions as well as the identified technical work documents.
 - 2. The Subcontractor shall include a clause substantially the same as DUF6 Form 9063 in lower-tier subcontracts involving complex or hazardous work on site at a DOE-owned or leased facility. Such lower-tier subcontracts shall provide for the right to stop work under the conditions described in DUF6 Form 9063. Depending on the complexity and hazards associated with the work, the Subcontractor may require that the lower-tier subcontractor(s) submit an ES&H plan for the DUF6's review and approval.
 - The Subcontractor shall include in all of its lower-tier subcontracts involving performance of work at the site, the provisions of Section D. Inclusion of these provisions in lower-tier subcontracts shall not relieve the Subcontractor of its obligations with respect to environment, occupational safety, and health aspects of the work.



- s. Injury/Illness and/or Off-Normal Occurrence Reporting—All occupational injuries/illnesses of Subcontractor employees, off-normal occurrences including property/equipment damage, and injuries or near miss-type incidents shall be reported immediately to the Plant Shift Supervisor for emergency situations. All NON-emergency situations will be reported to the Subcontract Technical Representative. The subcontractor shall investigate and take corrective action to prevent recurrence. Copies of incident/injury/illness reports must be submitted to the Site ES&H Organization. The Subcontractor shall participate in critiques and in investigations, as appropriate.
- Subcontractor Files—Subcontractor shall maintain files on the project to document all training, inspections, certifications, qualifications, permits, and noncompliance notifications/responses.
- u. The Subcontractor will report all hours worked on the DUF6 project to their STR. The hours shall be reported at the completion of the job, or at the end of each month, whichever comes first."



Attachment A, DUF6-POL-060, *Environment, Safety, and Health Policy*Page 1 of 5



DUF6-POL-060 Rev.: 0 Effective Date: 06/22/2017 Page 1 of 5

Environment, Safety, and Health Policy

Prepared by: Environmental, Safety, and Health

Approved by: See Form 4320.
Todd Butz
ESH&Q Manager

DISCLAIMER

This document was prepared by Mid-America Conversion Services, LLC (MCS) under U.S. Department of Energy (DOE) Contract DE-EM0004559, and is intended for use solely in conjunction with the Depleted Uranium Hexafluoride (DUFs) Conversion Project. The information contained herein shall not be disclosed, duplicated, or released in whole or in part for any purpose other than the DUFs Conversion Project without the express written consent of DOE and MCS.

U.S. Department of Energy Portsmouth/Paducah Project Office Portsmouth Site Paducah Site



Attachment A, DUF6-POL-060, *Environment, Safety, and Health Policy*Page 2 of 5





Attachment A, DUF6-POL-060, Environment, Safety, and Health Policy

Page 3 of 5



Environment, Safety, and Health Policy DUF6-POL-060 Rev.: 0 Effective Date: 06/22/17 Page 3 of 5

1 INTRODUCTION

This policy was developed to ensure the safety and health of every worker, the public, and the environment. This is the way Mid-America Conversion Services, LLC (MCS) achieves its mission. It is paramount in all that we do. We maintain a safe workplace and conduct our work to prevent and elliminate hazards. We protect the environment not only by complying with applicable requirements, but also striving to continuously improve. We expect everyone on our site — employee, contractor, or visitor — to take personal responsibility for their actions, to hold to the same high standards.

1.1 WE EXPECT THAT EVERY EMPLOYEE, CONTRACTOR, AND VISITOR:

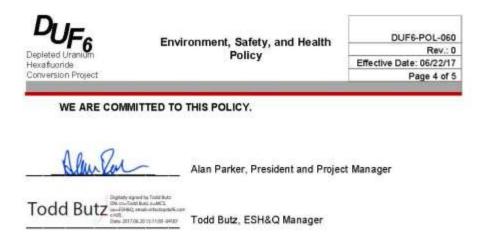
- Is responsible for their own safety and the safety of others.
- Is committed to an accident and injury free workplace.
- · Acknowledges that people are fallible, and even the best make mistakes.
- Actively anticipates and communicates error-likely situations and failed defenses.
- · Does not perform or permit an unsafe act.
- · Has the responsibility and authority to stop unsafe acts.
- · Encourages and reinforces the safe behavior of others.
- Makes these commitments part of every day at work, home, and play.

1.2 IN SUPPORT OF THIS POLICY, WE PLEDGE:

- To foster and maintain a work environment of mutual respect and teamwork that encourages free and open expression and ES&H programs.
- To ensure direct, open and truthful communication of this policy and our ES&H performance.
- To continuously work to provide a clean and efficient workplace, free of occupational injuries and illnesses.
- To integrate ES&H into our business processes for work planning, budgeting, authorization, execution, and change control in accordance with our Integrated Safety Management System.
- To continuously improve our processes and systems by establishing, tracking, and achieving goals and incorporating lessons learned to drive performance excellence.
- To comply with all Federal, State, and local environmental laws and regulations.
- To minimize the impact of our operations on the environment by using sustainable practices for energy and water efficiency, pollution prevention, recycling/reuse, source reduction, resource conservation, and environmentally preferable purchasing.
- To manage the operational controls that limit environmental impacts and improve sustainability through an ISO 14001-conforming Environmental Management System.

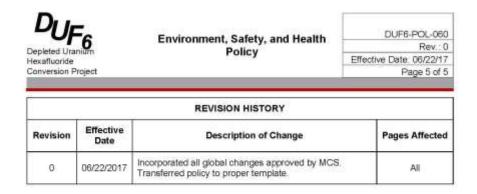


Attachment A, DUF6-POL-060, *Environment, Safety, and Health Policy*Page 4 of 5





Attachment A, DUF6-POL-060, *Environment, Safety, and Health Policy*Page 5 of 5



END OF DOCUMENT



Attachment B, List of Workplace Safety and Health Requirements*

*(as applicable to the subcontractor's scope of work)

Page 1 of 1

29 CFR 1910, Occupational Safety and Health Standards for General Industry

29 CFR 1926, Safety and Health Regulations for Construction

10 CFR 835, Occupational Radiation Protection Program

10 CFR 830, Nuclear Safety Management

The following requirements from 10 CFR 851.23 and 10 CFR 851.27 when applicable to work performed at DUF6 sites, will be strictly adhered to:

- 1. American Conference of Governmental Industrial Hygienists (ACGIH®), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices," (2016) (incorporated by reference, see § 851.27) when the ACGIH® Threshold Limit Values (TLVs) are lower (more protective) than permissible exposure limits in 29 CFR part 1910 for general industry and/or part 1926 for construction. When the ACGIH TLVs are used as exposure limits, contractors must nonetheless comply with the other provisions of any applicable expanded health standard found in 29 CFR part 1910 and/or part 1926.
- 2. ANSI Z49.1-2012, American National Standard Safety in Welding, Cutting and Allied Processes, sections 4.3 and E4.3.
- 3. ANSI/ASSE Z88.2-2015, American National Standard Practices for Respiratory Protection.
- 4. ANSI Z136.1-2014, American National Standard for Safe Use of Lasers.
- 5. The American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (BPVC)-2015, 2015 edition.
 - (a) ASME BPVC.I-2015, Section I—Rules for Construction of Power Boilers:
 - (b) ASME BPVC.II.A-2015, Section II—Materials, Part A—Ferrous Material Specifications (Beginning to SA-450);
 - (c) ASME BPVC.II.A-2015, Section II—Materials, Part A—Ferrous Material Specifications (SA-451 to End);
 - (d) ASME BPVC.II.B-2015, Section II—Materials, Part B—Nonferrous Material Specifications;
 - (e) ASME BPVC.II.C-2015, Section II—Materials, Part C—Specification for Welding Rods, Electrodes, and Filler Metals;
 - (f) ASME BPVC.II.D.C-2015, Section II—Materials, Part D—Properties (Customary);
 - (g) ASME BPVC.II.D.M-2015, Section II—Materials, Part D—Properties (Metric);
 - (h) ASME BPVC.III.A-2015, Section III—Rules for Construction of Nuclear Facility



- Components, Appendices;
- (i) ASME BPVC.III.1.NB-2015, Section III—Rules for Construction of Nuclear Facility Components, Division I—Subsection NB, Class 1 Components;
- (j) ASME BPVC.III.1.NC-2015, Section III—Rules for Construction of Nuclear Facility Components, Division I—Subsection NC, Class 2 Components;
- (k) ASME BPVC.III.1.ND-2015, Section III—Rules for Construction of Nuclear Facility Components, Division I—Subsection ND, Class 3 Components;
- (I) ASME BPVC.III.1.NE-2015, Section III—Rules for Construction of Nuclear Facility Components, Division I—Subsection NE, Class MC Components;
- (m) ASME BPVC.III.1.NF-2015, Section III—Rules for Construction of Nuclear Facility Components, Division I—Subsection NF, Supports;
- (n) ASME BPVC.III.1.NG-2015, Section III—Rules for Construction of Nuclear Facility Components, Division I—Subsection NG, Core Support Structures;
- (o) ASME 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;
- (p) ASME BPVC.III.NCA-2015, Section III—Rules for Construction of Nuclear Facility Components, Subsection NCA, General Requirements for Division 1 and Division 2;
- (q) ASME BPVC.III.2-2015, Section III—Rules for Construction of Nuclear Facility Components, Division 2, Code for Concrete Containments;
- (r) ASME BPVC.III.3-2015, Section III—Rules for Construction of Nuclear Facility Components, Division 3, Containment for Transportation and Storage of Spent Nuclear Fuels and High Level Radioactive Material and Waste;
- (s) ASME BPVC.III.5-2015, Section III—Rules for Construction of Nuclear Facility Components, Division 5, High Temperature Reactors;
- (t) ASME BPVC.IV-2015, Section IV, Rules for Construction of Heating Boilers;
- (u) ASME BPVC.V-2015, Section V. Nondestructive Examination:
- (v) ASME BPVC.VI-2015, Section VI, Recommended Rules for the Care and Operation of Heating Boilers;
- (w) ASME BPVC.VII-2015, Section VII, Recommended Guidelines for the Care of Power Boilers;
- (x) ASME BPVC.VIII.1-2015, Section VIII—Rules for Construction of Pressure Vessels, Division 1; □
- (y) ASME BPVC.VIII.2-2015, Section VIII—Rules for Construction of Pressure Vessels, Division 2, Alternative Rules;
- (z) ASME BPVC.VIII.3-2015, Section VIII—Rules for Construction of Pressure Vessels, Division 3, Alternative Rules for Construction of High Pressure Vessels;
- (aa) ASME 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;
- (bb) ASME BPVC.X-2015, Section X, Fiber-Reinforced Plastic Pressure Vessels;
- (cc)ASME BPVC.XI-2015, Section XI, Rules for In-service Inspection of Nuclear Power Plant Components;
- (dd) ASME BPVC.XII-2015, Section XII, Rules for Construction and Continued Service



of Transport Tanks;

- (ee) ASME BPVC.CC.BPV-2015, Code Cases, Boilers and Pressure Vessels; and (ff) ASME BPVC.CC.NC-2015, Code Cases, Nuclear Components.
- 6. ASME B31.1-2016, Power Piping, ASME Code for Pressure Piping.
- 7. ASME B31.3-2014, Process Piping, ASME Code for Pressure Piping.
- 8. ASME B31.4-2016, Pipeline Transportation Systems for Liquids and Slurries, ASME Code for Pressure Piping.
- ASME B31.5-2016, Refrigeration Piping and Heat Transfer Components, ASME Code for Pressure Piping.
- 10. ASME B31.8-2016, Gas Transmission and Distribution Piping Systems, ASME Code for Pressure Piping.
- 11. ASME B31.8S-2014, Managing System Integrity of Gas Pipelines, ASME Code for Pressure Piping, B31, Supplement to ASME B31.8.
- 12. ASME B31.9-2014, Building Services Piping, ASME Code for Pressure Piping.
- 13. ASME B31G-2012, Manual for Determining the Remaining Strength of Corroded Pipelines, Supplement to ASME B31 Code for Pressure Piping.



Attachment C, DUF6 Form 1389, Chemical Procurement Form

Page 1 of 2

DUF6	Chen	nical Procurement Form			
Submitted By:		Phone:	Date:		
This Form Applies 1	o The Following Chemicals				
Potential Reviewers	Question		Yes	No	N/A
Nuclear Safety Manager	Is the chemical to be procured identified as Safety Significant?				
	Does the chemical to be pro impact SS items?				
ES&H Manager	Is the chemical a hazardous material?				
	Is a non-hazardous or less available?				
	Does the chemical to be procured reside on the banned chemical list?				
WM&T Manager	Can the hazardous materia RCRA or TSCA regulated v				
	Will the chemical to be prod Certification Program?				
Emergency Management		Will the chemical require additional screening in ccordance with DUF6-C/X-SHP-0307?			
Approving Manage	er Print	Sign		Date	
Nuclear Safety Manager					
Environment, Safety & Health Manager					
WM&T Manager					

Upon completion of this checklist:

- If a chemical is to be a stock item, the requestor shall attach the approved DUF6 Form 1389 to the DUF6 Form 8200.
- If a chemical is a non-stock item, the requestor shall attach the approved DUF6 Form 1389 to the
 electronic purchase requisition and shall also attach any documentation needed for hazard
 communication, such as an SDS, to the purchase requisition.

DUF6 Form 1389, Rev. 0 (02/17) Page 1 of 2 Information Contained Within
DOES NOT CONTAIN
OFFICIAL USE ONLY EXPORT CONTROLLED INFORMATION
Reviewed by: Beth A. Hummel-Keener Date: 02/24/17



Attachment C, DUF6 Form 1389, Chemical Procurement Form

Page 2 of 2

DUF6	Chemical Procurement Form	
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	Approval for purchase is	requested for the following che	emical/product:	
Product Trade Name:				
CAS Number:				
Type (e.g., Paint, Lubricant, Gas)	:			
Product Manufacturer:				
Manufacturer's Address:				
Telephone:				
Special Storage / Use Controls?	Yes No No			
Process where chemical will be used: Note: The applicable SDS(s) sha	II be attached to this form oner to	o submitting for approval		
Area of Use	Storage Area	COLUMN TO THE PARTY OF THE PART	Expected Amount Used Annually	
Review / Approval	Print	Sign	Date	
Supervisor Requesting Chemical				
Facility Manager Where Chemical Used				
Waste Management				
Emergency Management				
Plant Manager (if MCS banned chemical)				

DUF6 Form 1389, Rev. 0 (02/17) Page 2 of 2

END OF DOCUMENT