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Level 2 Plan

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1.0 INTRODUCTION

- 1.1 Fluor-BWXT Portsmouth LLC (FBP) is committed to the safe, compliant, and cost-effective transport of all material shipped from the Portsmouth Gaseous Diffusion Plant (PORTS), Piketon, Ohio. The shipment of all material associated with the Decontamination and Decommissioning (D&D) of a gaseous diffusion plant are covered under this plan, including but not limited to, abatement and demolition debris, solids and liquids, non-radioactive, radioactive, hazardous, industrial, universal, substances, equipment, wastes, and samples. This plan takes into account extensive shipping campaigns, smaller waste streams, and individual shipments made by highway, rail, air, or vessel.
- 1.2 This Transportation Execution Plan is being developed and implemented as a basis for off-site transportation activities at the PORTS. FBP will comply with all applicable Department of Energy (DOE) Orders, federal, state, local, and tribal laws and receiving site acceptance criteria.

2.0 PURPOSE AND SCOPE

- 2.1 The purpose of this plan is to detail the process and methods that will be used to ensure safe and compliant execution of transportation-related work. Implementation of this plan and the supporting procedures will include the elements of Integrated Safety Management System (ISMS).
- 2.2 This Level 2 plan covers FBP shipments prepared for off-site shipment and released through the Waste Management Organization, unless otherwise noted.
- 2.3 This plan is not intended to address the transportation of specific waste streams and includes all the elements outlined in the Contractor Requirements Document in DOE Order (O) 460.2B, *Departmental Materials Transportation Management*. If directed by DOE or required by DOE Order, FBP will develop waste stream/campaign specific transportation plans, as needed.
- 2.4 On-site transfers are excluded from this Transportation Plan and will be addressed in POEF-FBP-010, *Transportation Safety Document for the On-Site Transport of Hazardous Material at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio*, in compliance with the requirements of 10 Code of Federal Regulations (CFR) 830.200.
- 2.5 The use of international transport standards and regulations (i.e., International Civil Aviation Organization [ICAO], Technical Instructions for the Safe Transport of Dangerous Goods, International Maritime Dangerous Goods [IMDG] Code, and International Atomic Energy Agency [IAEA] Regulations for the Safe Transport of Radioactive Material) for the transport of hazardous materials are authorized, as limited by 49 CFR Part 171, Subpart C
- 2.6 This document implements applicable regulatory requirements. They are listed in Appendix A, *Regulatory Requirements Flow Down*.

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3.0 RESPONSIBILITIES

3.1 Director Waste Management

This Transportation Plan covers FBP shipments prepared for off-site shipment and released through the Waste Management Organization. The Waste Management Director has overall responsibility for the implementation of the Waste Management Program, including the Transportation Program within FBP.

3.2 Transportation Manager (TM)

Ensures all hazardous materials are identified, classified, packaged, marked, labeled, and offered for transport in accordance with the Department of Transportation (DOT) regulations and any other applicable requirements. Oversees the activities of the Logistics Coordinator, Transportation Specialists (TS), and the Railroad (RR) Specialist.

3.3 Logistics Coordinator

Implements the transportation program through the procedures and work plans. Ensures that all transportation activities are performed safely, cost effectively and in compliance with all applicable federal, state, and local regulations as well as DOE and site requirements. Ensures all conveyances are surveyed before loaded, containers are inspected, shipping papers generated and checked, and all transportation inspections are performed. Oversees the activities of the TSs. The TM may also function as the Logistics Coordinator, if necessary. Implements the FBP Motor Carrier Program and ensures cost effective procurement of highway transport equipment and services. Interfaces with the service providers, schedules the delivery and pick up of trailers, and reviews and approves invoices.

3.4 Rail Supervisor

The Rail Supervisor is an additional duty assigned to a supervisor in the Waste Management Division. Implements the RR Program and ensures cost effective procurement of rail transport equipment and services. Interfaces with the service providers, schedules the delivery and pick up of railcars, and reviews and approves invoices.

3.5 Transportation Specialist (TS)

Ensures proper identification, classification, communication, containment, and control of hazardous materials being offered for transport. Verifies the consignee's ability to receive materials, schedules the shipment, makes required notifications, tracks shipments, and ensures appropriate records are maintained.

3.6 Waste Management Programs Manager

Ensures hazardous materials are properly characterized and profiled for the material, or waste disposition site; and ensures the characterization data is collected in a timely manner to allow the Transportation Department to assess compliance with DOT packaging and transport requirements.

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3.7 Waste Disposition Specialist (WDS)

Provides guidance to the D&D Projects on the characterization and packaging requirements identified by the Waste Management Programs Manager and TM.

3.8 Container and Field Services Manager

Performs inventory of empty and filled containers, container repairs, and ensures containers are marked, labeled and placarded in accordance with the guidance provided by the TS or Logistics Coordinator or designee. Supervises the activities of the field personnel in the movement and loading of conveyances, as applicable.

3.9 Waste Certification Official (WCO)

Ensures FBP materials are packaged and disposed of in accordance with the Nevada National Security Site (NNSS) Waste Acceptance Criteria (WAC). Supervises the activities of the Alternate Waste Certification Official (AWCO) and the Waste Package Certifiers (WPC).

3.10 Radiological Protection (RP) Manager

Supervises the activities of the Radiation Safety Department; including the Radiological Control Technicians (RCTs) and Radiological Engineers (RE) supporting characterization and packaging of waste, and assists in the receipt and release of transport vehicles and trailers.

3.11 RCTs/REs

Provides job coverage to minimize the spread of contamination and ensure contamination and radiation limits are not exceeded prior to release from a Radioactive Material Storage Area (RMSA). Ensures all applicable surveys are completed prior to relinquishing a package (i.e., drum, van, intermodal, trailer, etc.) to transportation personnel. Performs contamination surveys on all conveyances prior to and after loading. Provides radiological technical evaluations/support, as needed, throughout the process of planning, preparing, processing and transporting a shipment of radiologically contaminated waste and/or materials.

4.0 ACTIONS

4.1 Characterization

Waste Management Programs will determine the method for characterizing FBP project wastes using sampling and analysis plans, process knowledge, surveys, nondestructive assay (NDA), analytical data, visual verification, safety data sheets (SDS)/materials safety data sheets (MSDS), and any other available resource as a basis for characterization and provide characterization information to Transportation

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4.2 Identification

Based on the characterization information provided, hazardous materials shall be identified in accordance with 49 CFR Part 172.

4.3 Classification

Material for transport by highway or rail will be classified in accordance with (IAW) 49 CFR Part 173, Subparts C, D and I and precedence of hazard for materials having more than one hazard will be determined IAW 173.2a. The most appropriate proper shipping name will be determined IAW 49 CFR 172.101 and selected from the 49 CFR 172.101 Hazardous Materials Table. As permitted by 49 CFR 171, Subpart C, materials intended for shipment by air will be classified IAW the ICAO Technical Instructions/International Air Transportation Association (IATA) requirements, and material intended for shipment by vessel will be classified IAW the IMDG Code.

4.4 Packaging

4.4.1 Packaging determinations will be based upon the chemical and physical properties and compatibility of the material intended for shipment, as well as the classification. Once a determination has been made, packaging selection will consider cost-savings measures. The following are currently being used or could be utilized at the PORTS:

- Excepted packaging
- Industrial packaging
- Type A
- Specification 7A
- Fissile (Type AF)
- Performance Oriented Packaging (POP)
- Type B
- Packaging authorized by DOE or Nuclear Regulatory Commission (NRC)
- Packaging authorized by DOT Special Permit
- Packaging authorized by DOT-IAEA Certificate of Competent Authority

4.4.2 A person trained to the requirements of 49 CFR 172 Subpart H will review and approve all packaging requisitions for hazardous materials.

4.4.3 Procurement of Type B and fissile material packaging will comply with the quality assurance requirements of 10 CFR 71, Subpart H and DOE O 460.1D.

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- 4.4.4 Procurement of all other hazardous and radioactive material packaging will comply with the quality assurance requirements of DOE Order 414.1D and DOE O 461.1C.
- 4.4.5 FBP must have party status to use DOT special permits as required by 49 CFR 107.
- 4.4.6 FBP and DOE must be registered users of packaging that has a Certificate of Competent Authority or a Certificate of Compliance issued by the DOE, DOT, or NRC.

4.5 Shipping Papers

- 4.5.1 Shipping papers will be completed in accordance with the latest version of the applicable regulations.
- 4.5.2 Shipping papers for highway and rail shipments will be prepared IAW the requirements of 49 CFR 172, Subpart C. Air shipments will be prepared IAW the ICAO/IATA requirements.
- 4.5.3 Transportation will utilize the Automated Transportation Logistics Accounting System (ATLAS) to the extent possible in the preparation of shipping papers or a similar program (e.g., eMWaste).
- 4.5.4 RADCALC or a similar validated software application may be used in developing shipping documents. Spreadsheets or software used to make shipping determinations will be verified and validated (V&V) in accordance with FBP Quality Assurance (QA) requirements.
- 4.5.5 Shipping documents undergo a peer review by an equally, or more senior qualified reviewer.

4.6 Markings

- 4.6.1 All markings must be durable, in English, displayed on a background of sharply contrasting color, must not be obscured, and must be located away from any other marking that could substantially reduce its effectiveness.
- 4.6.2 All packages, freight containers, and transport vehicles used for ground transport will be marked IAW 49 CFR Part 172, Subpart D and Part 173. Hazardous and mixed wastes will also be marked IAW 40 CFR 262, Subpart C. Polychlorinated biphenyl (PCB) waste will be marked IAW 40 CFR 761, Subpart C. Regulated asbestos containing material (ACM) will be marked IAW 40 CFR 61.150.
- 4.6.3 Packages prepared for transport by air will be marked IAW ICAO Regulations/IATA Technical Instructions, as permitted by 49 CFR Part 171, Subpart C.
- 4.6.4 Packages prepared for transport by vessel will be marked IAW IMDG Code, as permitted by 49 CFR Part 171, Subpart C.

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4.7 Labels

- 4.7.1** All labels must meet the requirements of 172, Subpart E.
- 4.7.2** Each label must be printed on or affixed to a background of contrasting border, or have a dotted line or solid line outer border, and must be clearly visible and may not be obscured by markings or attachments.
- 4.7.3** All packages required to be labeled will be labeled IAW 49 CFR 172, Subpart E. Those packages required to be labeled and transported by air will be labeled IAW ICAO/IATA.

4.8 Placards

- 4.8.1** Each placard must be affixed to a background of contrasting color, or must have a dotted or solid line outer border which contrasts with the background color, and be located clear of appurtenances, and devices such as ladders, pipes, doors and tarpaulins.
- 4.8.2** Each bulk packaging, freight container, transport vehicle, or rail car requiring placards will be placarded IAW with 49 CFR 172, Subpart F.

4.9 Separation and Segregation

The requirements of 49 CFR Part 177, Subpart C will be met for shipments prepared for off-site transport.

4.10 Special Permits/Exemptions

- 4.10.1** FBP may ship under authorized Special Permits. FBP must have party status to use DOT special permits as required by 49 CFR 107.
- 4.10.2** FBP may also apply for Special Permits through DOE to DOT.
- 4.10.3** FBP may also ship under DOE exemptions, as approved by the DOE Headquarters Certifying Official (HCO) IAW DOE O 460.1D.

4.11 Load Securement

Proper load securement will be executed for all shipments prepared for off-site transport IAW 49 CFR Part 177, Subpart B, Loading and Unloading, and 49 CFR Part 393, Federal Motor Carrier Safety Regulations (FMCSR), Subpart I.

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4.12 Transport Vehicles

4.12.1 FBP will be shipping large numbers of shipments off-site via highway and rail and to a lesser extent, air and vessel. Transport vehicles are expected to include but are not limited to the following:

A. Highway

- Flatbed trailers (various designs including those with specialty tarp systems a.k.a. Vango or Conestoga)
- International Organization for Standardization (ISO) Container trailers
- Closed vans
- Dump trucks
- Drop deck trailers (single and double)

B. Rail

- Flatcars
- Articulated Bulk Container cars
- Boxcars
- Gondolas

4.12.2 Many of these transport vehicles, like spine cars and trailers, have integrated locking mechanisms that will be used in securing the containers to the conveyance. For those lacking integrated methods of securement, loads shall be secured IAW the requirements of 49 CFR Part 177, Subpart B and 49 CFR Part 393, Subpart I.

4.13 Federal Motor Carrier Safety Regulations

FBP-WM-PL-00049, *Motor Carrier Compliance Plan* details compliance with the FMCSA, including carrier selection and rates.

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4.14 Preferred/Alternative Routes

- 4.14.1** Transportation will supply preferred routes to all highway carriers. In addition, specific requirements will be relayed regarding areas to be avoided and routes for classified shipments that must be strictly adhered to. Drivers will be given specific instructions to notify FBP Plant Shift Superintendent (PSS) if any deviation from the route is required, due to construction, weather, or any other condition outside the driver's control.
- 4.14.2** Rail routing is controlled by the RRs and typically follows the most direct route from origin to destination. Rail shipments can be diverted due to maintenance of way, fires, floods, ice and snow events. Rail customer service programs will advise customers when conditions cause major RR traffic impacts.

4.15 Environmental Protection Agency (EPA) Regulations

- 4.15.1** In addition to DOT requirements, hazardous waste will be characterized, identified, classified, packaged, marked and labeled and shipped in full compliance with the requirements of 40 CFR 262-263, and 700-789, as applicable.
- 4.15.2** Hazardous waste shall be marked as specified in 40 CFR 262.32 and PCBs shall be marked as specified in 40 CFR 761.40-45. Regulated ACM will be marked as specified in 40 CFR 61.150 with the marking described at 29 CFR 1926.1101(k)(8)/1910.1001(j)(4).

4.16 Emergency Response

- 4.16.1** Emergency response information, as set forth in 49 CFR 172, Subpart G, will be supplied to all carriers of hazardous materials, and samples requiring a shipping paper, prior to release from the site. All shipping papers will include the PSS phone number; a 24-hour manned emergency response telephone number.
- 4.16.2** Carriers are responsible for emergency response and cleanup while a shipment is in transit.
- 4.16.3** The PSS is provided information regarding upcoming shipping campaigns as well as notification by close of business of all shipments released that day. The PSS is also provided copies of the shipping papers and applicable Emergency Response Guides (ERG) which will be held until safe delivery of the load in case of transportation incident.
- 4.16.4** The PSS is provided with technical contact information for transportation activities and is instructed to provide immediate information to a caller reporting an emergency with an FBP shipment.
- 4.16.5** All carriers who accept hazardous materials for transport will be supplied a copy of all applicable ERGs along with the shipping papers.

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4.17 Transportation Safeguards and Security

4.17.1 FBP-WM-PL-00102, *Fluor-BWXT Portsmouth (FBP) Transportation Security Plan for the Off Site Shipment of Hazardous Material*, meets the requirements of 49 CFR Part 172, Subpart I and addresses the risks related to the transport of hazardous materials in commerce, and dictates additional security training requirements.

4.17.2 Safeguards and security measures included for highway transport are:

- Included in approved security plans.
- Driver has proper security clearance for classified shipments.
- List of drivers prior to pick up of shipments.
- Verify driver is a citizen of the United States.
- Verify the driver's Commercial Driver's License (CDL) with proper hazardous materials endorsement.
- Ensure safety/security inspections of all incoming and outgoing shipments.
- Verify the transport vehicle has tracking (e.g., Qualcomm) and/or two-way voice communication.

4.17.3 Safeguards and security measures for rail shipments include:

- Provide PSS a list and schedule for inbound and outbound rail shipments.
- Receive daily notification of the location of the cars/train.
- Have a mechanism/plan to monitor rail shipments en route to determine when there are unexpected occurrences with railcars and/or RRs.
- Ensure safety/security inspections of all incoming and outgoing shipments.
- Ensure the RR maintains central dispatch communication with rail cars.

4.18 Government Self Insurance Policy

Consistent with the Government's self-insurance policy, FBP, for and on behalf of the U.S. Department of Energy, must ensure that government funds will not be expended to insure property against loss, damage, or destruction while in transit, unless the shipment qualifies as a special circumstance under the Federal Acquisition Regulations under 48 CFR 47.102.

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4.19 Tracking Systems

- 4.19.1** Carriers hauling non-classified hazardous materials from PORTS are required to have tracking (e.g., Qualcomm) and/or two-way voice communication in the transport vehicles.
- 4.19.2** Transportation will utilize the Transportation Tracking and Communications System (TRANSCOM) for all classified loads departing PORTS, if required by the Integrated Site Services (ISS) Safeguards and Security Plan. Although FBP will utilize the TRANSCOM system for tracking purposes, the states the shipments are going through will not be given direct access to this information.
- 4.19.3** Rail shipments will be tracked using web-based RR tracking programs, routine reports from the RRs, and reports from subcontract logistics providers.

4.20 Carrier Selection

Carrier selection is in accordance with FBP-WM-PL-00049, *Motor Carrier Compliance plan*.

4.21 Transportation Rates and Services

Carrier rates and services are discussed in the FBP-WM-PL-00049, *Motor Carrier Compliance Plan*.

4.22 Verification of Receipt

- 4.22.1** Receiving facilities must acknowledge receipt of shipment by providing a signed copy of the shipping document per regulatory or generator requirements within the mandated time constraints. Transportation shall contact the receiving facility if notice is not received.
- 4.22.2** For fissile, more than a Type A quantity, and classified shipments, the consignee must notify Transportation by the end of the first working day after the estimated arrival date if the shipment has not been received.

4.23 Training

- 4.23.1** FBP Hazardous Materials (HAZMAT) employees, as defined in 49 CFR 171.8, are trained and certified by FBP in accordance with the requirements of 49 CFR Part 172, Subpart H. All HAZMAT employees will receive, at a minimum, the following training:
- General awareness/familiarization training
 - Function-specific training
 - Safety training

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- Security awareness training

And

- In-depth security training

4.23.2 In addition to the above requirements, personnel qualified to certify shipments of HAZMAT on behalf of DOE will successfully complete advanced shipper certification training courses, and be re-tested every three years for DOT and IMDG and every two years for IATA.

5.0 RECORDS

5.1 Records related to the shipment of hazardous materials shall be retained by the Transportation Group until notification of receipt is obtained from the receiving facility and as follows:

- Hazardous waste manifests and associated documentation is maintained on-site for three years after the shipment.
- Hazardous material shipping papers and associated documentation shall be maintained on-site for two years after the shipment.
- Packaging documentation shall be maintained for two years after the last shipment using a particular packaging.

5.2 At the completion of the aforementioned retention periods, these records, along with package certification, operation and maintenance records, will be turned over to Records Management and be retained as QA records in accordance with site records retention criteria.

5.3 Shipping files will be retained as QA records in accordance with FBP-BS-PRO-00061, *Document Control Process*, and FBP-BS-PRO-00062, *Records Management Process*, for the life of the Project plus 3 years.

6.0 DEFINITIONS/ACRONYMS

6.1 Definitions

A. HAZMAT employee

a. A person who is:

- i.** Employed on a full-time, part time, or temporary basis by a hazmat employer and who in the course of such full time, part time or temporary employment directly affects hazardous materials transportation safety

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- ii. Self-employed (including an owner-operator of a motor vehicle, vessel, or aircraft) transporting hazardous materials in commerce who in the course of such self-employment directly affects hazardous materials transportation safety
 - iii. A RR signalman
 - Or
 - iv. A RR maintenance-of-way employee
- b. This term includes an individual, employed on a full time, part time, or temporary basis by a hazmat employer, or who is self-employed, who during the course of employment:
 - i. Loads, unloads, or handles hazardous materials.
 - ii. Designs, manufactures, fabricates, inspects, marks, maintains, reconditions, repairs, or tests a package, container, or packaging component that is represented, marked, certified, or sold as qualified for use in transporting hazardous material in commerce.
 - iii. Prepares hazardous materials for transportation.
 - iv. Is responsible for safety of transporting hazardous materials.
 - v. Operates a vehicle used to transport hazardous materials.

6.2 Acronyms

- A. ACM** – asbestos containing material
- B. CFR** – Code of Federal Regulations
- C. D&D** – Decontamination and Decommissioning
- D. DOE** – Department of Energy
- E. DOT** – Department of Transportation
- F. ERG** – Emergency Response Guide
- G. FBP** – Fluor-BWXT Portsmouth LLC
- H. HAZMAT** – Hazardous Material
- I. IAEA** – International Atomic Energy Agency
- J. IATA** – International Air Transportation Association

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- K. IAW** – In accordance with
- L. ICAO** – International Civil Aviation Organization
- M. IMDG** – International Maritime Dangerous Goods
- N. NRC** – Nuclear Regulatory Commission
- O. PCB** - Polychlorinated biphenyl
- P. PORTS** – Portsmouth Gaseous Diffusion Plant
- Q. PSS** – Plant Shift Superintendent
- R. QA** – Quality Assurance
- S. RCT** – Radiological Control Technician
- T. RE** – Radiological Engineer
- U. RR** – Railroad
- V. TRANSCOM** – Transportation Tracking and Communications System
- W. TM** – Transportation Manager
- X. TS** – Transportation Specialist

7.0 REFERENCES

- A.** 10 CFR 71, 73, 830 and 835
- B.** 29 CFR 1910 and 1926
- C.** 40 CFR 61, 262-263, 700-789
- D.** 49 CFR 40, 100-185, 325, and 355-399
- E.** DOE Order 460.1D, *Packaging and Transportation Safety*
- F.** DOE Order 460.2B, *Departmental Materials Transportation Management*
- G.** DOE Order 461.1C, *Packaging and Transportation for Offsite Shipment of Materials of National Security Interest*
- H.** FBP-BS-PRO-00061, *Document Control Process*
- I.** FBP-BS-PRO-00062, *Records Management Process*
- J.** FBP-WM-PL-00049, *Motor Carrier Compliance Plan*

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- K.** FBP-WM-PL-00102, *Fluor-BWXT Portsmouth (FBP) Transportation Security Plan for the Off Site Shipment of Hazardous Material*
- L.** FBP-WM-PRO-00044, *Preparing Off-Site Shipments of Hazardous Materials*
- M.** IAEA Regulations for the Safe Transport of Radioactive Material
- N.** ICAO Technical Instructions for the Safe Transport of Dangerous Goods
- O.** International Maritime Dangerous Goods Code
- P.** North American Emergency Response Guidebook
- Q.** POEF-FBP-010, *Transportation Safety Document for the On-Site Transport of Hazardous Material at the Portsmouth Gaseous Diffusion Plant Piketon, Ohio*

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2. 29 CFR 1910 and 1926
3. 40 CFR 61, 262-263, 700-789
4. 49 CFR 40, 100-185, 325, and 355-399
5. DOE Order 460.1D, *Packaging and Transportation Safety*
6. DOE Order 460.2B, *Departmental Materials Transportation Management*
7. DOE Order 461.1C, *Packaging and Transportation for Offsite Shipment of Materials of National Security Interest*