



<b>DOCUMENT NO.:</b> FBP-WM-PL-00051	<b>REV. NO.</b> 7	<b>EFFECTIVE DATE:</b> <u>07/27/23</u>
<b>TITLE:</b>  Transportation Training Plan	<b><u>5</u> YR PERIODIC REVIEW DATE:</b> <u>07/27/28</u>	
	<b>APPROVED BY</b> <b>DATE:</b>	Lindsay Adkins 07/27/23 (Signature on File)

<b>USE CATEGORY:</b>	<b>INFORMATION USE</b>	<b>Page 1 of 14</b>
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### Level 2 Plan

Revision	Record of Issue/Revision	Affected Pages
7	Revision/Periodic Review: update to current template, format, and SME; add Appendix A, <i>Regulatory Requirements Flow Down</i> , and associated Step in 2.0, <i>Purpose and Scope</i> ; minor editorial updates throughout; update current Appendix A to Appendix B; add new job functions of “OSWDF – WAO” and “Environmental Science Technician II ER Shipper”; add new training module “ EC6553 Transportation Security Plan for the Off-Site Shipments of Hazardous Materials.”	All

Previous Record of Issue/Revision information is available from the history files.

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## 1.0 INTRODUCTION

Fluor-BWXT Portsmouth LLC (FBP) is committed to the safe, compliant, and cost-efficient transportation of all shipments including hazardous, radioactive materials, wastes, non-regulated, universal shipments, and samples shipped from, or within the Portsmouth Gaseous Diffusion Plant (PORTS), Piketon, Ohio.

## 2.0 PURPOSE AND SCOPE

- 2.1** This Level 2 Plan is developed and implemented to ensure all FBP and FBP Contracted Labor Resources assigned to support on- or off-site transportation or related activities are trained and qualified.
- 2.2** This plan addresses the training requirements of the United States (US) Department of Transportation (DOT) 49 Code of Federal Regulations (CFR) 172 Subpart H, *Training*, and the US Department of Energy (DOE) Contractor Requirements Document, DOE Order 460.1D, *Hazardous Materials Packaging and Transportation Safety*.
- 2.3** Required DOT training is specified in the Hazardous Materials Regulations (HMR), 49 CFR 172 Subpart H and 177.816; and the Federal Motor Carrier Safety Regulations (FMCSR), 49 CFR 390.3(e)(1), 390.3(e)(2), 382.601 and 382.603. Ensure inspection (inspector qualifications) and maintenance personnel training (qualifications of brake inspectors), who inspect and work on commercial motor vehicles (CMVs), is specific to perform their duties, and their training meets acceptable standards as specified in FMCSR 49 CFR 396.19 and 49 CFR 396.25.
- 2.4** This plan also describes the FBP rail operations training and qualification program and identifies the requirements for personnel assigned to perform FBP rail operations. The FBP Rail Operations training and qualification program is intended to comply with 49 CFR Part 172 Subpart H. The training and qualification program will also establish criteria for Trackmobile Operator qualifications.
- 2.5** This document implements applicable regulatory requirements. They are listed in Appendix A, *Regulatory Requirements Flow Down*.

### Exceptions:

- 2.6** This plan does not address Certified Positions, as required by DOE O 426.2. When used, “certified/certification” refers to the certification of waste and those individuals who certify the waste.
- 2.7** DOE requires contractors to fully adopt DOT standards for on-site transport of hazardous materials unless exceptions are authorized by the DOE approved site specific Transportation Safety Document (TSD). The FBP TSD, POEF-FBP-010, *Transportation Safety Document for the On-Site Transport of Hazardous Material at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio*, does not grant exceptions from hazardous material (HAZMAT) training.

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**2.8** Since the Norfolk Southern Railroad (NS) operates on a limited part of the site rail system, only that section of rail is subject to the Federal Railroad Administration (FRA). Inspection and maintenance of this track is subject to FRA regulations. The training for maintenance and inspections are specific to the goal of maintaining the track to Class 1 standards. The portion of the PORTS Rail system on which FBP operates is not part of the general system of railroads and are not subject to FRA regulations.

### **3.0 RESPONSIBILITIES**

Transportation Manager ensures proper training is applied to Hazmat Employees. FBP is a HAZMAT employer as defined by 49 CFR 171.8 and has HAZMAT employees.

### **4.0 HAZMAT EMPLOYEE TRAINING**

#### **4.1 General Requirements**

- 4.1.1** HAZMAT training will be assigned per FBP-TRN-PL-00001, *Training Program Plan*, as specified in this plan. All contract and subcontract employees who meet at least one of the criteria of a HAZMAT employee per 49 CFR 171.8 are subject to the requirements of this plan and will complete required training. Certification statements of completion of HAZMAT training are available.
- 4.1.2** Per 49 CFR 172.704, HAZMAT training shall include general awareness/familiarization, safety, security awareness, function-specific, and in-depth security training.
- 4.1.3** All HAZMAT employees who handle hazardous materials covered by a security plan, perform a regulated function related to the hazardous materials covered by a security plan, or are responsible for implementing a security plan, must complete module #80109, *Transportation Security*. The Transportation Security plan is reviewed annually and retraining is required every three years for all HAZMAT employees required to complete the training.
- 4.1.4** The levels of HAZMAT Worker are General, Intermediate, and Advanced as defined below and in Appendix B, *Department of Transportation Training Matrix*.
  - A.** General HAZMAT Worker– someone who requires the most basic level of training who do not perform final preparation for HAZMAT transport. This includes activities such as loading containers, taking samples, or other preparation of hazardous materials or waste, but does not include final shipment preparation such as marking, labeling, storing, or loading transport conveyances. An example of this type of worker would be a Radiation Protection (RP) employee that completes a radiological survey on a package prior to shipping. These workers may also require additional function specific training for their functions (e.g., RP, truck driver, and rail operations employees).

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- B. Intermediate HAZMAT Worker– someone who requires more training in the areas of final preparation of a HAZMAT shipment such as storing, labeling, marking, placarding, and/or loading the conveyance. An example of this type of worker would be a Decontamination and Decommissioning (D&D) worker who prepares material for final shipment and assists with moving and storing transport conveyances. These workers may also require additional function specific training for their functions.
- C. Advanced HAZMAT Worker– someone who completes advanced transportation courses, which covers the HAZMAT requirements. An example of this type of worker would be a Transportation Specialist (TS) who is authorized to ship hazardous material. These workers may also require additional function specific training for their functions.

- 4.1.5 HAZMAT training is generally progressive so advanced training normally suffices for entry level training, and will be determined as described in Sections 4.2, 4.3, and 4.4. However, it is recommended entry level HAZMAT workers progress from basic HAZMAT training to more advanced HAZMAT training to ensure sufficient understanding of the regulations is known before moving on to more complicated technical curriculum.
- 4.1.6 HAZMAT training will be conducted by self-study guide, on-line module, classroom training, or subcontracted training, as described herein.
- 4.1.7 FBP shall provide certification the HAZMAT employee has been trained and tested, as required by 49 CFR Part 172 Subpart H.
- 4.1.8 Equivalencies to the requirements for specific training modules may be made if the HAZMAT employee has received equivalent training with respect to the work they have performed in the past three years. Such equivalencies are reviewed and granted in accordance with FBP-TRN-PRO-00006, *Equivalencies, Extensions, Challenge Exams and Training Status Reports*.
- 4.1.9 New hires or personnel who change positions have 90 days to complete their required training. During that time, they must work under the direct supervision of someone who is fully trained and certified.
- 4.1.10 A record of current HAZMAT employee training must be maintained by FBP for as long as that employee is employed and for 90 days thereafter. The record shall include: the HAZMAT employee name, most recent date of the HAZMAT employee training, description, a copy or the location of the training materials, name and address of the person providing the training, and certification the HAZMAT employee has been trained and tested as required for their position as specified by this plan.

## **4.2 General HAZMAT Worker Training Requirements (General Awareness)**

- 4.2.1 General HAZMAT employees will complete Module X05765, *General Awareness for HAZMAT Workers*, or an equivalent course every three years.

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**4.2.2** Exceptions – The following training modules cover the HAZMAT, safety, security awareness, and a portion of the function specific training of the HAZMAT employee requirements, so any employee who completes and receives certification in one of these modules will not need to take the X05765.

- Module 70107, *DOT Hazardous Materials 8 Hr. Training*
- Module 70115, *Advanced Radioactive Material Shipper Certification Training*
- Module 70116, *Advanced Hazardous Waste Shipper Certification Training*
- Module 70117, *Advanced Mixed Waste Shipper Certification Training*
- Module 23291, *IATA/ICAO – Air Transportation of Dangerous Goods Seminar/Workshop*
- Module 75827, *Basic Radioactive, Hazardous, and Mixed Packaging, Transportation and Disposal Training*

**NOTE**

FBP HAZMAT workers must have a General Awareness training module X05765 before taking intermediate HAZMAT courses.

**4.3 Intermediate HAZMAT Worker Training Requirements**

**4.3.1** Intermediate HAZMAT employees will complete classroom Module 70107 or an equivalent course every three years.

**4.3.2** Exceptions – The following training modules cover the HAZMAT, safety, security awareness, and a portion of the function specific training of the HAZMAT employee requirements, so any employee who completes and receives certification in one of these modules will not need to take the classroom Module 70107.

- Module 70115, *Advanced Radioactive Material Shipper Certification Training*
- Module 70116, *Advanced Hazardous Waste Shipper Certification Training*
- Module 70117, *Advanced Mixed Waste Shipper Certification Training*
- Module 23291, *IATA/ICAO – Air Transportation of Dangerous Goods Seminar/Workshop*
- Module 75827, *Basic Radioactive, Hazardous, and Mixed Packaging, Transportation and Disposal Training*

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#### NOTE

Advanced HAZMAT employees should complete classroom Modules 70107 or 75827 or an equivalent in order to have a more developed understanding of Transportation Requirements prior to taking advanced classes.

### 4.4 Advanced HAZMAT Worker Training Requirements

**4.4.1** Advanced HAZMAT employees will complete one of the courses listed below or an equivalent course every three years. The specific courses taken are dependent of the function to be performed as listed below:

- Module 70115, *Advanced Radioactive Material Shipper Certification Training*
- Module 70116, *Advanced Hazardous Waste Shipper Certification Training*
- Module 70117, *Advanced Mixed Waste Shipper Certification Training*
- Module 23291, *IATA/ICAO – Air Transportation of Dangerous Goods Seminar/Workshop*
- Module 75827, *Basic Radioactive, Hazardous, and Mixed Packaging, Transportation and Disposal Training*
- Module 75828, *Specification Packaging Training*

**4.4.2** Module 70115, 70116, courses combined are equivalent to Module 70117. Module 70117 can also be taken in lieu of Module 70115 and Module 70116.

Only those TS's that will be responsible for air or water shipments will be trained in Module 23291 or International Maritime Dangerous Goods (IMDG) respectively.

Only Those TS's that Ship Hazardous Materials should take Advanced Shipper Certification Courses. All others should consider taking the Module 75827 *Basic Radioactive, Hazardous, and Mixed Packaging, Transportation and Disposal Training which provides advanced instruction for the non-shipper.*

### 4.4.3 Transportation Specialist (TS)

- A.** TS shall successfully complete and receive certification in Module 70116, 70115, and 70117 courses, or courses that are deemed to be equivalent.
- B.** TS shall not complete a shipment for a hazardous material that they have not been certified and authorized to ship and shall not sign shipping papers “*on behalf of the U.S. Department of Energy*” until they are given written authorization by the Transportation Manager, Waste Management Director, or qualified designee.

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#### **4.4.4 Packaging Selection**

Employees selecting or approving specification packaging for use; developing or modifying packaging specifications; designing packaging; or developing or approving packaging repairs or modifications shall complete and receive certification of completion for module 75828 course, as well as 75827. Employees who have completed and received certification in advanced transportation courses per Section 4.3 above, will not be required to complete these classes.

#### **4.4.5 Packaging Inspection**

Employees inspecting specification packages for Quality Assurance (QA) approval and acceptance of specification containers (i.e., receipt inspection), shall complete and receive certification of completion for Module 75828, or equivalent, as applicable.

#### **4.4.6 Packaging Technical Review**

Waste Management personnel, who perform technical reviews of packaging purchase requisitions and other purchase documents/specifications, shall have training and receive certification of completion for Module 75828, or equivalent as applicable.

#### **4.4.7 Waste Disposition Specialist (WDS)**

Employees who characterize waste shall complete and receive certification in module 75828 course, as well as 75827. Employees who have completed and received certification of completion in advanced transportation courses per Section 4.3, will not be required to complete these classes.

#### **4.4.8 DOT Special Permit Training**

Each HAZMAT employee who performs a function subject to a specific special permit must receive training on the requirements and conditions of the special permit.

- A.** Employees who are required to receive special permit training for each specific special permit will be determined on a case by case basis by the Transportation Department.
- B.** All drivers of shipments affected by each specific special permit must receive that particular special permit training and pass the test prior to transporting.
- C.** TS will administer a special permit test to each over the road driver affected by the specific special permit.
- D.** TS will ensure every affected over the road driver has been tested and submit completed test to training for retention.



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### 4.5 Other Function Specific Training

Other job functions may require function-specific training that is not outlined in this plan in order to fulfill their role. In most cases, additional function-specific training will be required for HAZMAT workers.

## 5.0 FEDERAL MOTOR CARRIER SAFETY REGULATIONS REQUIREMENTS

### NOTE

The following training requirements for those employees involved in the Federal Motor Carrier Program at FBP, are outlined in FBP-WM-PRO-00052, *FBP Motor Carrier Operations*.

Required DOT training is specified in the HMR, 49 CFR 172 Subpart H, and 177.816; and the FMCSR 49 CFR 390.3(e)(1) and (2), 382.601 and 382.603.

- 5.1 The qualifications for inspection and maintenance personnel who inspect and work on CMV must have specific job function training in order to perform their duties. This training must meet acceptable standards as specified in FMCSR (49 CFR 396.19 and 49 CFR 396.25). This training includes annual inspection and brake inspector training that does not expire.
- 5.2 Drivers, driver supervisors, maintenance, and garage personnel will have refresher training in the FMCSR every three years. Module# 1395, *Federal Motor Carrier*, is required for those individuals.
  - 5.2.1 Commercial Driver's License (CDL) holders shall be issued educational materials in accordance with 49 CFR 382.601 and their supervisors shall be trained in accordance with 49 CFR 382.603.

### NOTE

A driver with an "H" or "X" endorsement on his/her CDL may be excused from the driver training requirements of 49 CFR 177.816(a) if the CDL is less than three years old.

- 5.2.2 A driver with a cargo tank endorsement on his/her CDL must have training every three years as stated at 177.816(b).

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**NOTE**

A driver with an “N” or “X” endorsement on his/her CDL may be excused from the cargo tank training requirements of 49 CFR 177.816(b) if the license is less than three years old.

**5.3** Exceptions – The following training modules are equivalent to Module# 1395, and meet the driver and supervisor requirements of 49 CFR 382.601 and 40 CFR 382.603.

- Module X05693, *Commercial Motor Vehicle Program*

## **6.0 RAIL OPERATIONS**

**6.1** This section describes the FBP rail operations training as outlined in FBP-WM-PL-00047, *Rail Operations Program Plan*, and identifies the requirements for personnel assigned to perform FBP rail operations and inspections. These requirements are intended to comply with 49 CFR 172.700

**6.2** FBP rail operations training will include two areas:

- 1) Trackmobile Operation
- 2) Inspections

**6.3** Trackmobile Operation training will include trackmobile inspection and operation. Employees who will perform this function shall complete modules X01314, *Rail Car Mover OJT*, and EC5629, *Incidental Operator Training (Repairmen/Inspectors)*.

**6.4** Inspectors will meet the requirements of 49 CFR 213.7, *Designation of Qualified Persons to Supervise Certain Renewals and Inspect Track*.

**6.5** All training activities will be documented and maintained in the FBP training records.

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## 7.0 DEFINITIONS/ACRONYMS

### 7.1 Definition

- A. Hazardous Material** – Per 49 CFR 171.8, means a substance or material the Secretary of Transportation has determined is capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and has designated as hazardous under section 5103 of Federal hazardous materials transportation law (49 U.S.C. 5103). (For full citation, see 49 CFR 171.8.)
- B. HAZMAT employer** – Per 49 CFR 171.8, is an employer who employs or uses at least one hazmat employee on a full-time, part time, or temporary basis; and who transports hazardous materials in commerce; causes hazardous materials to be transported in commerce; or designs, manufactures, fabricates, inspects, marks, maintains, reconditions, repairs, or tests a package, container, or packaging component that is represented, marked, certified, or sold by that person as qualified for use in transporting hazardous materials in commerce. (For full citation see 49 CFR 171.8.)
- C. HAZMAT employee** – is a person who is: (citation edited for clarity)
- Employed on a full-time, part time, or temporary basis by a HAZMAT employer (FBP is a hazmat employer), and who in the course of such employment, directly affects hazardous materials transportation safety.

This also includes an individual, employed on a full time, part time, or temporary basis by a hazmat employer, who during the course of employment:

- Loads, unloads, or handles hazardous materials
- 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
- Prepares hazardous materials for transportation
- Is responsible for safety of transporting hazardous materials
- Operates a vehicle used to transport hazardous materials

### 7.2 Acronyms

- A. CDL** – Commercial Driver’s License
- B. CMV** – Commercial Motor Vehicles
- C. FMCSR** – Federal Motor Carrier Safety Regulations
- D. HAZMAT** – Hazardous Materials

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- E. HMR** – Hazardous Material Regulations
- F. ORO** – Oak Ridge Operations
- G. RP** – Radiation Protection
- H. TS** – Transportation Specialist
- I. TSD** – Transportation Safety Document

## **8.0 REFERENCES**

- A.** 49 CFR 171.8, *Definitions and Abbreviations*
- B.** 49 CFR 172 Subpart H, *Training*
- C.** 49 CFR 177.816, *Driver Training*
- D.** 49 CFR 213.7, *Designation of Qualified Persons to Supervise Certain Renewals and Inspect Track*
- E.** DOE Order 460.1D, *Hazardous Materials Packaging and Transportation Safety*
- F.** FBP-TRN-PRO-00006, *Processing Training Equivalencies, Extensions, and Providing Monthly Status Reports/Work Limitations*
- G.** FBP-WM-PL-00047, *Rail Operations Program Plan*
- H.** FBP-WM-PRO-00052, *Portsmouth Gaseous Diffusion Plant (PORTS) Motor Carrier Operations*

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**Appendix A**  
**REGULATORY REQUIREMENTS FOR FLOW DOWN**

1. 49 CFR 171.8, *Definitions and Abbreviations*
2. 49 CFR 172 Subpart H, *Training*
3. 49 CFR 177.816, *Driver Training*
4. 49 CFR 213.7, *Designation of Qualified Persons to Supervise Certain Renewals and Inspect Track*
5. DOE Order 460.1D, *Hazardous Materials Packaging and Transportation Safety*

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**Appendix B**  
**DEPARTMENT OF TRANSPORTATION TRAINING MATRIX**  
**FOR FLUOR-BWXT PORTSMOUTH LLC**

**Department of Transportation Training Matrix for Fluor-BWXT Portsmouth LLC**

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