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USE CATEGORY:	INFORMATION USE	Page 1 of 65
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Level 2 Administrative Procedure

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TITLE:	FBP-WM-PRO-00044
	REV. NO. 24
	Page 2 of 65

CONTENTS

1.0	PURPOSE	4
2.0	SCOPE AND APPLICABILITY	4
3.0	GENERAL INFORMATION	4
4.0	USE REFERENCES	7
5.0	RESPONSIBILITIES	8
5.1	TS.....	8
5.2	WDS	8
5.3	Operations Supervisor.....	8
5.4	WCO	9
5.5	AWCO	9
5.6	Logistics Coordinator(s)	9
5.7	NMC&A	9
6.0	ACTIONS	10
6.1	Shipments to the NNSS	10
6.2	Shipments to Non-NNSS Facilities	18
6.3	Obtaining and Releasing Carrier Driver, Rail Shipments, and Final Paperwork Processing	24
7.0	RECORDS	33
7.1	Records Generated.....	33
7.2	Requirements	34
8.0	DEFINITIONS/ACRONYMS	34
8.1	Definitions	34
8.2	Acronyms.....	34
9.0	SOURCE REFERENCES	36
Appendix A	REGULATORY REQUIREMENTS FLOW DOWN	38
Attachment A	FLUOR-BWXT PORTSMOUTH LLC (FBP) SHIPMENT DOCUMENT FOLDER CHECKLIST	39
Attachment B	NEVADA NATIONAL SECURITY SITE (NNSS) DOCUMENT REVIEW CHECKLIST	40
Attachment C	FLUOR BWXT PORTSMOUTH LLC (FBP) LOW LEVEL WASTE (LLW) NEVADA NATIONAL SECURITY SITE (NNSS) CERTIFICATE OF DISPOSAL	41
Attachment D	TRUCK INSPECTION CHECKLIST	42
Attachment E	NRC 540/541 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST	43
Attachment F	TRANSPORTATION REGULATORY COMPLIANCE CHECKLIST	45

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 3 of 65

Attachment G FIELD INSPECTION REGULATORY COMPLIANCE CHECKLIST 48

Attachment H TRAILER INSPECTION CHECKLIST 50

Attachment I FLUOR-BWXT PORTSMOUTH LLC FOR THE USDOE INSTRUCTIONS
REGARDING ENROUTE SECURITY AND CONTROLS FOR SHIPMENTS
CONSIGNED AS EXCLUSIVE USE (SOLE USE OR FULL LOAD) 51

Attachment J FLUOR-BWXT PORTSMOUTH LLC (FBP) NEVADA NATIONAL SECURITY
SITE (NNSS) CARRIER’S DRIVER PACKET EXCLUSIVE USE SHIPMENT OR
DEDICATED SERVICE SHIPMENT 52

Attachment K DRIVERS ROUTE TO ENERGYSOLUTIONS, CLIVE UT 60

Attachment L NOTICE TO DRIVER 61

Attachment M DEDICATED TRUCK INSTRUCTIONS 62

Attachment N PROHIBITED AND CONTROLLED ARTICLES 65

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 4 of 65

1.0 PURPOSE

- 1.1 This procedure provides guidance for establishing a uniform set of actions and instructions for making shipments of hazardous materials.
- 1.2 When properly implemented, the protocols and methods described in this procedure partially meet the intent of FBP-PM-PDD-00001, *Integrated Safety Management System*, requirements for:
 - Hazardous Material Identification
 - Classification
 - Containerization
 - Hazard Communication
 - Personnel Training
- 1.3 This document implements applicable regulatory requirements. They are listed in Appendix A, *Regulatory Requirements Flow Down*.

2.0 SCOPE AND APPLICABILITY

- 2.1 This Level 2 procedure applies to Fluor-BWXT Portsmouth LLC (FBP) personnel or contract labor resource personnel employed at the Portsmouth Gaseous Diffusion Plant (PORTS) involved with making shipments of classified, hazardous materials, and other waste shipments off-site.
- 2.2 The actions and instructions set forth in this procedure will demonstrate packages of classified and hazardous material meet required Department of Transportation (DOT), Nuclear Regulatory Commission (NRC), Environmental Protection Agency (EPA), state, and local regulations for transportation in commerce.
- 2.3 Certain shipments may be authorized by the Department of Energy (DOE) to be shipped out of commerce on a case by case basis.

Exceptions:

- 2.4 This procedure does not apply to sample shipments or subcontracted (turnkey) transportation operations.

3.0 GENERAL INFORMATION

- 3.1 The compilation of the applicable forms in the Shipment Documentation Folder (SDF) for a given shipment shall demonstrate programmatic and project compliance with applicable DOT, NRC, International Civil Aviation Organization (ICAO), International Air Transport Association (IATA), International Maritime Dangerous Goods (IMDG), and EPA regulations.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 5 of 65

- 3.2** Per 49 Code of Federal Regulations (CFR) 172.201 (e), *Retention and Recordkeeping for Shipping Papers Required by 172.200 (a)*, for a hazardous waste, the shipping paper copy must be retained for 3 years after the material is accepted by the initial carrier. For other hazardous materials, the shipping paper must be retained for 2 years after the material is accepted by the initial carrier.
- 3.3** In addition to DOT, NRC, ICAO, IATA, IMDG, EPA, Federal, State, and local regulations, DOE, and FBP requirements, shipments of waste shall also meet Waste Acceptance Criteria (WAC) as well as applicable permits and licenses of individual receiving facilities.
- 3.4** Quality Assurance (QA) interacts with transportation management to identify activities to be monitored or processes to be assessed, and provides independent oversight of shipments intended for transportation in commerce.
- 3.5** Upon discovery of events, such as:
- Safety concerns
- OR
- Damage to shipping container or package requiring rejection of the shipment or repair prior to shipment; then:
 - 1) Establish safe conditions at the project site and initiate a problem report in accordance with FBP-QP-PRO-00020, *Problem Reporting and Issues Management*. If the event is due to a non-conforming item such as a container or liner, FBP-QA-PRO-00128, *Control of Nonconforming Items*, must also be adhered to.
 - 2) Provide notification to Portsmouth Paducah Project Office (PPPO)/DOE/PORTS and the Waste Certification Official (WCO) if any of the following events occur pertaining to Nevada National Security Site (NNSS) shipments:
 - Non-conforming conditions are identified that could possibly affect the quality of previously shipped waste.
 - Motor carrier(s) is being evaluated.
 - Change in the motor carrier route.
 - Motor carrier discrepancy, non-compliance, or inadequate performance has been identified.
 - Motor carrier transportation incident or emergency situation.
- 3.6** For NNSS shipments, the Low-Level Waste Information System for Generators (LWIS-G) software is developed, revised, and distributed to site WCOs by the NNSS Management and Operations Contractor for use to standardize documentation for shipments to the NNSS. Documentation produced by LWIS-G includes the Package Shipment and Disposal Request (PSDR) and bar code labels required for each package in the shipment.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 6 of 65

3.7 IF calculation spreadsheets are to be utilized, **THEN** they must be designed, developed, reviewed, and approved in accordance with FBP-SMPO-PDD-00005, *Software Management*, and FBP-BS-PRO-00138, *Creating and Maintaining Controlled Spreadsheets*.

3.8 Regulated Asbestos Low-Level Waste (RALLW) containing packages shall meet the applicable shipping requirements for the radioactive contents of the package.

3.9 Prerequisites:

- Contact Nuclear Materials Control and Accountability (NMC&A) for concurrence to ship reportable quantities of nuclear material in hazardous wastes.
- Contact NMC&A five (5) days in advance for off-site shipments requiring generation of DOE/NRC Form 741, *Nuclear Material Transaction Report*.
- Ensure trailer inbound survey is completed by Radiological Protection (RP) and reported on FBP-RP-PRO-00177-F02, *Radiological Survey Form*, per FBP-RP-PRO-00036, *Radiological Surveys for the Receipt, Transport, and Movement of Radioactive Materials*, and a copy is provided to Transportation Specialist (TS).
- Waste planned for treatment or disposal has been properly characterized and packaged in accordance with requirements defined in approved Waste Profiles (WP) licenses and permits of the receiving facility.
- Personnel designated to generate/sign shipping papers and/or perform regulatory evaluations are trained and qualified in accordance with FBP-WM-PL-00051, *Transportation Training Plan*.
- Personnel designated to perform transportation inspections per Federal Motor Carrier Safety Regulations (FMCSR) are trained and qualified in accordance with FBP-WM-PL-00051.
- Personnel designated to perform functions in this procedure for shipments going to the NNSS have met the training requirements for NNSS, Course #EC8523, *Nevada National Security Site Acceptable Waste*.
- Off-site carrier services have been properly registered with the DOT.
- Ensure FBP has party status required to use DOT special permits and/or exceptions as required by 49 CFR 107, *Hazardous Materials Program Procedures*.
- Confirm road transport of hazardous materials, including hazardous and/or radioactive waste, is conducted by trucking companies approved through the US DOE Motor Carrier Evaluation Program (MCEP).
- Visitor identification information for off-site carrier services personnel operating transport vehicles has been submitted to PORTS Security 24 hours prior to arrival on-site with adherence to DOE requirements for handling Personally Identifiable Information (PII) by completing NWD SS PE FOR 2347, *Visit Request*.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 7 of 65

- The WCO must be notified for NNSS shipments if special handling of waste or material will be required.
- Ensure the following prior to use of Type B or certified fissile material packaging (DOE Order 460.1D, *Packaging and Transportation Safety*):
 - 1) FBP or FBP sub-contractors shall be registered in writing with the DOE Headquarters Certifying Official (HCO) before the packaging is used.
 - 2) The QA program shall be approved and audited by the HCO for certified Type B and fissile radioactive materials packagings satisfying the requirements of 10 CFR Part 71, Subpart H, *Quality Assurance*.
- Personnel performing peer reviews are to be qualified as an FBP TS, or be a person who has successfully completed Advanced Mixed Waste Shipper Training, or Advanced Hazardous and Radioactive Shipper Training, and be authorized in writing by the FBP Transportation Manager to perform peer reviews.

4.0 USE REFERENCES

- A. FBP-BS-PRO-00062, *Records Management Process*
- B. FBP-BS-PRO-00138, *Creating and Maintaining Controlled Spreadsheets*
- C. FBP-EM-PRO-00050, *Response to an Off-Site Transportation Incident*
- D. FBP-MC-PRO-00010, *Uranium-bearing Equipment and Waste Item Transfers*
- E. FBP-QA-PRO-00128, *Control of Nonconforming Items*
- F. FBP-QP-PRO-00020, *Problem Reporting and Issues Management*
- G. FBP-RP-PRO-00004, *Release of Material and Equipment from Department of Energy Control*
- H. FBP-RP-PRO-00036, *Radiological Surveys for the Receipt, Transport, and Movement of Radioactive Materials*
- I. FBP-RP-PRO-00177, *Documentation of Radiological Surveys*
- J. FBP-SMPO-PDD-00005, *Software Management*
- K. FBP-WM-PL-00051, *Transportation Training Plan*
- L. FBP-WM-PRO-00039, *Waste Container Operations*
- M. FBP-WM-PRO-00043, *Waste Package Marking and Labeling Requirements for Shipment and Disposal at the Nevada National Security Site (NNSS)*
- N. FBP-WM-PRO-00046, *Waste/Recyclables Tracking*

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 8 of 65

O. FBP-WM-PRO-00295, *Waste Container Labeling and Marking Requirements for Storage*

5.0 RESPONSIBILITIES

NOTE

Waste Management Personnel includes:

- Waste Disposition Specialist (WDS)
- Supervisor (Transportation or Project)
- WCO
- Alternate Waste Certification Official (AWCO)
- Waste Package Certifier (WPC)
- TS
- Logistics Coordinator
- Transportation Manager

5.1 TS

- 5.1.1** Ensures hazardous material is classified, packaged, and transported in accordance with State and Federal regulations.
- 5.1.2** Acts as the shipper for “Fluor-BWXT Portsmouth LLC for the US Department of Energy.”

5.2 WDS

- 5.2.1** Ensures waste or material is classified and characterized in accordance with State and Federal regulations for disposal and confirms with TS that the material is acceptable for transport.
- 5.2.2** Coordinates packaging and transportation requirements with the TS.
- 5.2.3** Selects packaging in concert with TS and Waste Certification (WC).
- 5.2.4** Ensures material is acceptable under the licenses, profiles, and permits of the receiving facility.

5.3 Operations Supervisor

- 5.3.1** Ensures shipment is marked and labeled as directed by the TS assigned to the shipment.
- 5.3.2** Schedules outbound surveys.
- 5.3.3** Directs loading of the shipment.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 9 of 65

5.4 WCO

5.4.1 Ensures the Waste Certification Program is administered in accordance with applicable WAC for waste, packaging, and documentation, and is appropriately certified to meet the criteria for disposal at the designated Treatment, Storage and Disposal Facility (TSDF) including, but not limited to, the NNSS.

5.4.2 Directs the oversight and certification activities of the AWCO and WPC to ensure that all documentation is provided and all notifications are made before materials are shipped.

5.5 AWCO

5.5.1 Reviews shipment document records for completeness and accuracy before certifying waste as acceptable for loading and shipment to the designated TSDF including the NNSS.

5.5.2 Performs assessments to ensure materials are packaged in accordance with the WAC for the designated TSDF including the NNSS.

5.6 Logistics Coordinator(s)

Interfaces with the carriers to obtain power units, schedules delivery and pick up of trailers, and performs Federal Motor Carrier Safety Administration (FMCSA) inspections.

5.7 NMC&A

5.7.1 Issues DOE/NRC Form 741 and initiates electronic updates of the Nuclear Materials Management and Safeguards System (NMMSS).

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 10 of 65

6.0 ACTIONS

NOTE

External contamination levels for transport vehicles and waste packages shall meet the release limits specified in Title 10 CFR Part 835, *Occupational Radiation Protection*, Appendix D to Part 835, *Surface Contamination Values*.

6.1 Shipments to the NNSS

NOTE

In addition to meeting the NNSSWAC requirements, low level waste (LLW) and mixed waste (MW) packages planned for disposal at the NNSS must meet applicable DOE Orders, Title 10, Title 40, and Title 49 CFR requirements in such areas as design, nuclear safety, radiation levels, activity limits, nuclear heating, and multiple hazards. Waste must be radioactive, unless the material is classified, and be handled, stored, and shipped in accordance with DOE, DOT, NRC, EPA, state, and local hazardous waste regulations and requirements.

WDS

- 6.1.1 Provide Transportation with inventory of containers being prepared for shipment.
- 6.1.2 Confirm quantity of fissionable (fissile) material in a waste package is limited so that an infinite array of such packages will remain subcritical under “as packaged” conditions and if the array were to be flooded with water to any credible degree.
- 6.1.3 Review radiological and chemical characterization data for the material in the shipment, as documented in eMWaste, for compliance with the receiving facility requirements.
- 6.1.4 Request Supervisor to coordinate with Radiological Control Technician (RCT) to perform pre-shipment radiological surveys of the packages.
- 6.1.5 Provide eMWaste all Waste/Material Generation Forms (WMGs) and supporting documentation, such as Change to Waste Tracking(s) (CWTs), movement sheets, etc.
- 6.1.6 Provide Transportation with the following information for the proposed shipment, as applicable:
 - 1) Container size, number of packages, NNSS Profile Number, ft³ of waste.
 - 2) WMG and any FBP-WM-PRO-00046-F05, *Change to Waste Tracking Information*, (CWT) for each package in the shipment, refer to FBP-WM-PRO-00046, *Waste/Recyclables Tracking*).

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 11 of 65

- 3) Pre-shipment radiological surveys, FBP-RP-PRO-00177-F02, to support waste shipments to the NNSS which have been signed by both RCT and RP Supervisor.
- 4) Documentation used to determine characterization/classification of material in shipment.

6.1.7 Ensure packages do not exceed the limits specified in the appropriate WP.

TS

NOTE

Action steps and checklists from step 6.1.10 thru step 6.1.16 are not required to be performed in the exact order as listed.

- 6.1.8 Generate FBP-WM-PRO-00039-F02, *Shipment Load List*, and provide to loading Supervisor.
- 6.1.9 Ensure instrument uncertainty from Nondestructive Assay (NDA) has been taken into account to generate compliant packages that meet shipping and disposal regulations. Record nominal values on shipping papers in alignment with those values used for NMC&A.
- 6.1.10 Assign NNSS shipment number, Bill of Lading (BOL) or Uniform Hazardous Waste Manifest (UHW) Number, and record shipment information into the Shipment Log.

NOTE

RALLW containing packages shall meet the applicable shipping requirements for the radioactive contents of the package.

RALLW shall be packaged, marked, and labeled in accordance with the requirements of Title 40 CFR Part 763, *State of Nevada Solid Waste Disposal Site Permit* (SW 532, current revision), and state-of-generation regulations.

All packages generated from repackaging of rejected waste (progeny) shall have the original rejected package number (parent) entered in parentheses in the comment section of the PSDR.

- 6.1.11 **IF** a package is rejected from the NNSS and returned to the generator, **THEN** record the original rejected package number (parent) in parentheses in the comments section of the PSDR.
- 6.1.12 Ensure the PSDR for asbestos shipments has the word “asbestos” in the comment section.

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 12 of 65

- 6.1.13** IF the shipment contains Polychlorinated Biphenyl (PCB)-contaminated remediation LLW or bulk product waste, **THEN** ensure a written notice containing information specified in 40 CFR 761.61, *PCB remediation waste.*, or 40 CFR 761.62, *Disposal of PCB bulk product waste.*, has been emailed to wminfo@nv.doe.gov a minimum of 15 days prior to the first shipment of that particular waste stream.
- 6.1.14** Ensure PSDR contains the EPA Code “PCBS” for PCB shipments.
- 6.1.15** The Waste Generator (WG) shall complete and submit an NNSS Advance Shipment Notification, available on SharePoint, to the Radioactive Waste Management Complex (RWMC) Waste Operations Supervisor via email to wminfo@nv.doe.gov for each inbound shipment of classified waste requiring protection from visual observation.
- 6.1.16** IF the shipment is classified as Radioactive-SCO per 49 CFR 173.403, **THEN** consider a wipe efficiency per 49 CFR 173.443 and unless a better efficiency is known and documented, assume the efficiency is 10%.

WDS

NOTE

A Land Disposal Restriction (LDR) Notification/Certification is required for the initial shipment of the MW stream or when the WP/LDR information changes.

A peer review by a qualified person (another WDS for example) is required and is to be documented on the LDR form.

Waste meeting the alternative LDR treatment standard for contaminated soil, as defined in Nevada Administrative Code (NAC) 444.8632 (incorporating Title 40 CFR 268.49) is also accepted.

- 6.1.17** IF waste is a MW and it is the initial shipment or information changes, **THEN** generate the LDR Notification/Certification ensuring the waste meets the treatment standard requirements in NAC 444.8632 (incorporating Title 40 CFR 268.40 and 268.45), including standards for underlying hazardous constituents (UHCs).
- 6.1.18** Forward completed LDR Notification to the TS.

WDS/TS

- 6.1.19** Request NMC&A to evaluate shipment for termination of safeguards and DOE/NRC Form 741 requirement. NMC&A requests a five (5) day notice of shipments.
- 6.1.20** IF shipment contains ≥ 0.5 grams uranium enriched in ^{235}U (Special Nuclear Material [SNM]), or ≥ 500 grams of depleted/normal uranium (source material), **THEN** NMC&A will provide DOE/NRC Form 741.

TITLE:	FBP-WM-PRO-00044
	REV. NO. 24
	Page 13 of 65

- 6.1.21 Request a GBT VAB number from NMC&A and assign to a corresponding NNSS shipment number.

TS

- 6.1.22 **IF** shipment requires a DOE/NRC Form 741, **THEN** generate the DOE/NRC Form 741 and submit to NMC&A.

NMC&A

- 6.1.23 Evaluate shipment as described in FBP-MC-PRO-00010, *Uranium-bearing Equipment and Waste Item Transfers*, for termination of safeguards.
- 6.1.24 Complete the evaluation sheet (DOE/NRC Form 741), and return to the TS.

TS

NOTE

Waste shipments to the NNSS shall be made by either “exclusive-use vehicles” when required, or by “dedicated service” when exclusive use is not required. The words “Dedicated Service” shall be listed in the comments section on the BOL or UHWM. Sharing of conveyances with other DOE waste generators and shipping directly to the NNSS is acceptable if previously approved.

- 6.1.25 Enter relevant transportation data from the WMG forms into eMWaste in accordance with FBP-WM-PRO-00046 to generate an NRC Form 540/541, *Uniform Low-Level Radioactive Waste Manifest*, containing the isotopic distribution for all WP radionuclides. This will be used as information only to populate the LWIS-G software or the WDIG database.
- Once shipment has been entered, change status from Planning to Loaded. This will lock the containers in the shipment and any further changes to the individual containers cannot be made in eMWaste until Transportation is notified and changes the status of the shipment back to Planning.
- 6.1.26 **IF** a secondary container identification (ID) is to be used for tracking by NMC&A, **THEN** develop the shipment summary using information obtained from the WMGs for the containers being offered for shipment, compare the primary and secondary ID numbers on the WMG to the shipment summary to ensure they match exactly, and then use the shipment summary primary and secondary container numbers to populate the NMC&A 741 request.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 14 of 65

NOTE

Activity of each nuclide in a waste package as documented on the PSDR shall not exceed the corresponding maximum radionuclide concentration specified on the applicable WP.

If activity exceeds high-range concentration OR reportable nuclide(s) are not listed on WP, then contact WDS for further guidance.

6.1.27 Enter NNSS required data for the specific shipment into the LWIS-G software program, latest revision, or the WDIG database.

6.1.28 Generate/obtain the following documentation and place into the SDF, as applicable:

- Shipping paper (BOL/UHWM), addressed to the following:

U.S. NNSA in care of (Current NNSS M&O Contractor) Waste Management
Nevada National Security Sites – Area 5 RWMC
Attn: Waste Operations Supervisor (optional)
Mercury, NV 89023

Classified Shipments:

- Shipments containing classified waste and/or matter shipped to the Area 5 RWMC shall be consigned to the address listed in the current Safeguards and Security Information Management System (SSIMS). The address can be obtained from the WG's security department.
- **IF** the WG does not have a DOE/Nevada National Security Administration (NNSA) security department, **THEN** contact the NNSS Senior Security Specialist identified in Appendix A of DOE/NV-325-24-00.
- Shippers are to verify the address via the Facility Data and Approval Record (FDAR). Per DOE 471.6, this verification must be accomplished within 30 days prior to tendering the shipment,
- Appendix G of DOE/NV-325-24-00
MSTS in Care of USDOE
Waste Management Area 5, RWMC, Nevada National Security Site
Mercury, NV 89023
- Shipment summary spreadsheet
- NRC Form 540, *Uniform Low-Level Radioactive Waste Manifest, Shipping Paper* (for information only)
- NRC Form 541, *Uniform Low-Level Radioactive Waste Manifest, Container and Waste Description* (for information only)

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 15 of 65

- WMG and, when attached, CWT for each package in the shipment
- Pre-shipment radiological surveys, FBP-RP-PRO-00177-F02 per FBP-RP-PRO-00036, which have been signed by both RCT and RP Supervisor
- Inbound radiological survey, FBP-RP-PRO-00177-F02, per FBP-RP-PRO-00036, which has been signed by both RCT and RP Supervisor
- Outbound radiological survey, FBP-RP-PRO-00177-F02, per FBP-RP-PRO-00036, which has been signed by both RCT and RP Supervisor
- Approved copy of 741 request from NMC&A and Portsmouth Materials Accountability System (PORTSMAS) Report, as applicable
- LDR/UHC for initial shipment of MW or information changes only
- Calculation spreadsheet(s)
- Radiological surveys of the contents in the packages
- Documentation provided by the WDS used to determine characterization/classification
- Material Safety Data Sheets/Safety Data Sheets (MSDS/SDS), as applicable

6.1.29 Complete FBP-WM-PRO-00044-F02, *Nevada National Security Site (NNSS) Document Review Checklist*, and include in the SDF.

6.1.30 Generate the following documentation, as applicable, and add to the SDF: File SDF in accordance with FBP-BS-PRO-00062, *Records Management Process*.

- Specific instructions on dedicated and prohibited routes to the NNSS, FBP-WM-PRO-00044-F11, *Fluor-BWXT Portsmouth LLC (FBP) Nevada National Security Site (NNSS) Carrier's Driver Packet EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE SHIPMENT*.
- FBP-WM-PRO-00044-F16, *Notice to Driver* (signed copy)
- FBP-WM-PRO-00044-F01, *Fluor BWXT Portsmouth LLC (FBP) Shipment Document Folder Checklist*

6.1.31 Ensure peer review of SDF is performed by TS or other approved peer reviewer using FBP-WM-PRO-00044-F07, *Transportation Regulatory Compliance Checklist*. Resolve any issues found.

6.1.32 Provide approved SDF to Waste Certification for review and certification.

TITLE:	FBP-WM-PRO-00044
	REV. NO. 24
	Page 16 of 65

- 6.1.33** Documents, as applicable, added to the SDF following certification of the shipment may include but are not limited to:
- Receipt Inspection/Certificate of Compliance for packages in the shipment
 - Signed copy of the certified PSDR
 - FBP-WM-PRO-00039-F02
- 6.1.34** IF using TRANSCOM for the shipment, THEN enter pre-notification information into TRANSCOM with at least 24-hour notice whenever possible, and confirm they have received the information.
- 6.1.35** Provide Operations Supervisor with DOT, NNSS markings and labels, as required, for application on packages.

Operations Supervisor

- 6.1.36** Direct marking and labeling of packages in accordance with TS and Waste Certification instructions per FBP-WM-PRO-00043, *Waste Package Marking and Labeling Requirements for Shipment and Disposal at the Nevada National Security Site (NNSS)*, and FBP-WM-PRO-00295, *Waste Container Labeling and Marking Requirements for Storage*.

TS

- 6.1.37** Perform a walk-down to visually inspect the integrity of the packages and the accuracy of the applied markings and labels.
- 6.1.38** Initiate FBP-WM-PRO-00044-F08, *Field Inspection Regulatory Compliance Checklist*.

Logistics Coordinator and/or Operations Supervisor

- 6.1.39** Schedule inbound surveys of the transport vehicle.
- 6.1.40** Provide a copy of inbound survey to WC prior to loading containers.

TS

- 6.1.41** Provide driver and equipment information to WC.

Operations Supervisor

- 6.1.42** Confirm a pre-load package inspection has been successfully performed.
- 6.1.43** Load the conveyance in accordance with applicable approved procedure or work package.
- 6.1.44** Complete FBP-WM-PRO-00039-F02.

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 17 of 65

6.1.45 Ensure Waste Certification representative is present during loading to perform loading inspection.

6.1.46 Schedule outbound surveys of the transport vehicle.

TS

6.1.47 Obtain outbound radiological surveys signed by the RCT Supervisor, as reported on FBP-RP-PRO-00177-F02 per FBP-RP-PRO-00036, and place in SDF.

Logistics Coordinator

NOTE

Select and schedule off-site carrier services in a timely manner in order to maintain schedule as best as possible.

6.1.48 Perform inspections of outbound carrier equipment and document results on FBP-WM-PRO-00044-F09, *Trailer Inspection Checklist*, FBP-WM-PRO-00044-F05, *Truck Inspection Checklist* and FBP-WM-PRO-00044-F18, *Prohibited and Controlled Articles*.

6.1.49 Provide results and signed copies to TS.

TS

6.1.50 **WHEN** requested, **THEN** provide the As Low As Reasonably Achievable (ALARA) planning spreadsheet showing the highest package contents radiological survey (smear data) for the shipment to wminfo@nv.doe.gov.

TS

NOTE

The BOL will allow the driver to return the empty intermodals back to PORTS.

6.1.51 Create a return BOL for any FBP-owned (or other that will be returned) intermodals that are shipped to NNSS.

6.1.52 **WHEN** the BOL is created and the intermodal shipment has left site, **THEN** send the signed BOL to wmdata@nv.doe.gov, the WCO, and the Transportation Manager.

A. **WHEN** the shipment is received at NNSS, **THEN** the trailer and empty container will be surveyed to ensure requirements are met and container will be shipped back as “Rad Empty”.

B. The signed BOL and surveys will be submitted by NNSS to the shipper for verification the DOT requirements have been met and for populating the shipment document folder.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 18 of 65

6.1.53 Ensure the following documents are added to the SDF prior to or following release of the shipment for PORTS, as applicable:

- Email printout of notification to Plant Shift Superintendent (PSS), NMC&A, Transportation Manager, WCO, and eMWaste Database Administrator upon shipment departure.
- FBP-WM-PRO-00044-F09
- FBP-WM-PRO-00044-F05
- FBP-WM-PRO-00044-F08
- Inbound and outbound radiological surveys signed by the RCT and Supervisor, as reported on FBP-RP-PRO-00177-F02.
- FBP-WM-PRO-00039-F02

NOTE

Any requirements regarding spacing of conveyances carrying fissile material must be included in the applicable work control documents and instructions to the drivers.

6.1.54 Proceed to Subsection 6.3, *Obtaining and Releasing Carrier Driver, Rail Shipments, and Final Paperwork Processing*.

6.2 Shipments to Non-NNSS Facilities

WDS

- 6.2.1** Provide Transportation with inventory of containers being prepared for shipment and the TSDF expected to receive the shipment.
- 6.2.2** Confirm the quantity of fissionable (fissile) material in a waste package is limited so that an infinite array of such packages will remain subcritical under “as packaged” conditions and if the array were to be flooded with water to any credible degree.
- 6.2.3** Review radiological and chemical characterization data for the material in the proposed shipment, as documented in eMWaste.
- 6.2.4** Request Supervisor to coordinate with RCT to perform a shipment radiological survey of the package(s).
- 6.2.5** Provide eMWaste with all WMGs, supporting documentation, and complete characterization radiological surveys.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 19 of 65

6.2.6 Provide Transportation with the following required information for the shipment, as applicable:

- Container size, number of packages, TSDF Profile #, ft³ of waste
- WMG and, when attached, any FBP-WM-PRO-00046-F05 for each package in the shipment (refer to FBP-WM-PRO-00046)
- Characterization surveys of the contents and packages reported on FBP-RP-PRO-00177-F02, per FBP-RP-PRO-00036, which have been signed by both RCT and RP Supervisor
- MSDS/SDS, as applicable
- TSDF Profile and EnergySolutions, CL-WM-PR-001-F3 (EC-0230-SNM), *Special Nuclear Material Exemption Certification*
- LDR, as applicable
- Documentation used to determine characterization/classification of material in shipment
- Verification the material is within the limits specified in the licenses and permits of receiving facility
- Verification the licenses and permits of the receiving facility are current and receiving facility is in good standing with the regulatory agencies
- Verification the TSDF is able to accept Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as applicable

6.2.7 **IF** profile, license, or permit limits are exceeded and profile issues cannot be resolved with the TSDF, **THEN** notify Transportation and pull affected packages from the shipment.

6.2.8 Determine if disposal contract has been funded for shipment.

TS

NOTE

Action steps and checklists from step 6.2.10 through step 6.2.14 are not required to be performed in the exact order as listed.

6.2.9 Take in to account instrument uncertainty from NDA in order to generate compliant packages that meet shipping and disposal regulations. Nominal values will be used for shipping.

6.2.10 Generate FBP-WM-PRO-00039-F02 and provide to loading Supervisor.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 20 of 65

- 6.2.11** Assign TSDF shipment number, Control No., BOL, or UHWM Number, and record shipment information into the Shipment Log.

NOTE

Contact the TSDF for pre-shipment notification requirements.

- 6.2.12** **IF** the shipment contains RALLW, **THEN** prepare a Regulated Asbestos Waste Shipment Record.

- 6.2.13** Obtain completed LDR Notification/Certification from WDS.

NOTE

NMC&A requests a five (5) day notice of shipments.

- 6.2.14** Request NMC&A to evaluate shipment for termination of safeguards and DOE/NRC Form 741 requirement.

- 6.2.15** **IF** shipment contains ≥ 0.5 gram uranium enriched in ^{235}U (SNM) or ≥ 500 grams of depleted/normal uranium (source material), **THEN** NMC&A will provide a DOE/NRC Form 741.

- 6.2.16** Enter relevant transportation data from the WMG forms into eMWaste in accordance with FBP-WM-PRO-00046, or other appropriate database to generate an NRC Form 540/541, and Isotopic Summary containing the isotopic distribution for all WP radionuclides.

NOTE

When status is changed from Planning to Loaded, it will lock the containers in the shipment and any further changes to the individual containers cannot be made in eMWaste until Transportation is notified and changes the status of the shipment back to Planning.

- 6.2.17** Once shipment has been entered, change status from Planning to Loaded.

- 6.2.18** Enter shipment information into Energy*Solutions* or Waste Control Specialist (WCS) Portal as applicable and request shipment to be scheduled.

Logistics Coordinator

- 6.2.19** Select and schedule off-site carrier services in a timely manner in order to maintain schedule as best as possible. For certain TSDFs where vendor carriers are used, a WDS may schedule for services.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 21 of 65

TS

NOTE

The provisions for separation can be met by placing barriers (i.e., impediments, obstructions, dividers, non-reactive material) between packages inside of the transport vehicle or freight container that prevent commingling of materials in the event of leakage from the package.

6.2.20 Verify separation and segregation requirements of 49 CFR by mode of transportation are met.

6.2.21 Generate/obtain the following documentation for SDF, as applicable:

- Shipping Paper (BOL/UHWM)
- Shipment Summary Spreadsheet
- NRC Form 540
- NRC Form 541
- NRC, *Isotopic Summary*
- WMG and, when attached, CWT for each package in the shipment
- Pre-shipment radiological surveys, FBP-RP-PRO-00177-F02, per FBP-RP-PRO-00036, which have been signed by both the RCT and RP Supervisor
- Inbound and outbound radiological surveys, FBP-RP-PRO-00177-F02, per FBP-RP-PRO-00036, which have been signed by both the RCT and RP Supervisor
- Radiological surveys of the contents in the packages
- FBP-RP-PRO-00004-F01, *Request to Release Material/Equipment from Department of Energy Control*
- Approved copy of 741 request from NMC&A and PORTSMAS Report, as applicable
- Specific instructions on preferred and prohibited routes to TSDFs
- Regulated Asbestos Waste Shipment Record
- TSDF funding and WP limits verified
- Calculation spreadsheet(s)

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 22 of 65

- FBP-WM-PRO-00044-F16 (signed copy)
- FBP-WM-PRO-00044-F10, *Fluor-BWXT Portsmouth LLC for the USDOE Instructions Regarding Enroute Security and Controls for Shipments Consigned as Exclusive Use (Sole Use or Full Load)*
- FBP-WM-PRO-00044-F17, *Dedicate Truck Inspections* (signed copy)
- Center of Gravity Sheet (Rail Shipments)
- EnergySolutions CL-WM-PR-001-F3 (EC-0230-SNM, *Special Nuclear Material Exemption Certification*)
- Any additional documentation required by the intended TSDF
- Documentation provided by the WDS used to determine characterization/classification
- LDR
- FBP-WM-PRO-00044-F01
- FBP-WM-PRO-00044-F06, *NRC 540-541 Uniform Low-Level Radioactive Waste Manifest*
- Receipt Inspection/Certificate of Compliance for packages in the shipment

- 6.2.22** Perform peer review (or other authorized peer reviewer) of SDF using FBP-WM-PRO-00044-F07 and resolve any issues found.
- 6.2.23** **IF** shipment contains fissile material or greater than a Type A quantity of radioactive material, **THEN** notify consignee prior to shipment of the shipment date, expected time of arrival, and any special loading/unloading instructions.
- 6.2.24** Provide SDF to Waste Certification for review and certification.
- 6.2.25** File SDF in accordance with FBP-BS-PRO-00062.
- 6.2.26** For EnergySolutions (ES) shipments, enter the EnergySolutions Portal once the shipment schedule has been approved by ES and validate and upload the manifest.
- 6.2.27** **IF** TSDF requires a Low Track Compatible E-File for the shipment, **THEN** send the file(s).
- 6.2.28** Provide Supervisor with DOT, TSDF markings and labels, as required, for application on packages.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 23 of 65

Operations Supervisor/TS

- 6.2.29** Direct marking and labeling of packages in accordance with TS and Waste Certification instructions per FBP-WM-PRO-00043 and FBP-WM-PRO-00295.

TS

- 6.2.30** Perform a walk-down to visually inspect integrity of the packages and accuracy of the applied markings and labels.
- 6.2.31** Initiate FBP-WM-PRO-00044-F08.

Logistics Coordinator and/or Supervisor

- 6.2.32** Schedule inbound surveys of the transport vehicle.
- 6.2.33** Perform a pre-loading trailer inspection and document on top portion of FBP-WM-PRO-00044-F09.
- 6.2.34** Provide a copy of inbound survey to WC prior to loading containers.

Operations Supervisor

- 6.2.35** Load the conveyance per applicable approved procedure or work package.
- 6.2.36** Complete FBP-WM-PRO-00039-F02, sign, and provide original to TS.
- 6.2.37** Schedule outbound surveys of the transport vehicle.

Logistics Coordinator(s)

- 6.2.38** Perform inspections of outbound carrier equipment and document results on FBP-WM-PRO-00044-F09 and FBP-WM-PRO-00044-F05.
- 6.2.39** Have driver complete FBP-WM-PRO-00044-F18.
- 6.2.40** Provide results to TS.

TS

- 6.2.41** Obtain inbound and outbound radiological surveys signed by the RCT and Supervisor, as reported on FBP-RP-PRO-00177-F02, per FBP-RP-PRO-00036.
- 6.2.42** Add the following documents to the SDF at this point, as applicable:
- Email printout of notification to PSS, NMC&A, Transportation Manager, WCO, and eMWaste Database Administrator upon shipment departure.
 - FBP-WM-PRO-00039-F02
 - FBP-WM-PRO-00044-F05

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 24 of 65

- FBP-WM-PRO-00044-F08
- FBP-WM-PRO-00044-F09
- FBP-WM-PRO-00044-F18
- Inbound and outbound radiological surveys, FBP-RP-PRO-00177-F02, which have been signed by both the RCT and RP Supervisor

6.3 Obtaining and Releasing Carrier Driver, Rail Shipments, and Final Paperwork Processing

TS

- 6.3.1** Verify driver's Commercial Driver's License (CDL) and hazardous materials (HAZMAT) endorsement are valid and meet requirements of shipment. Indicate CDL and HAZMAT endorsement have been verified and are valid by putting a check in the appropriate box on FBP-WM-PRO-00044-F08.

NOTE

If CDL has expired, carrier shall be contacted immediately for resolution. If satisfactory resolution is not obtained, do not proceed and Transportation Manager shall be contacted. Tamper Indicating Devices (TID) referenced in this procedure are **NOT** related to Nuclear Materials Control & Accountability (NMC&A) TIDs.

- 6.3.2** Record TID and Security Lock control numbers, as applicable, on shipment documentation.
- 6.3.3** **IF** mode of shipment is by rail, **THEN** obtain the waybill from the Logistics Service Company (broker) prior to the shipment departing to verify shipping documents match by putting a check in the appropriate box on FBP-WM-PRO-00044-F07.
- 6.3.4** Verify the reporting mark and number displayed on the railcar match the paperwork by putting a check in the appropriate box on FBP-WM-PRO-00044-F07.
- 6.3.5** **IF** mode of shipment is by rail, **THEN** scan in the BOL or UHWM to the owner of the spine (i.e., MHF Services or EnergySolutions).
- 6.3.6** **IF** mode of transport is rail and the shipment require a UHWM, **THEN** sign on behalf of Norfolk Southern (NS) Railway Company as the First Transporter, to release waste shipment(s).
- 6.3.7** **IF** mode of transport is rail, **THEN** notify Container Management when rail is ready to be released.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 25 of 65

6.3.8 IF mode of transport is by rail to EnergySolutions, THEN FedEx/United States Postal Service (USPS) the following shipping documents, when rail has shipped, to EnergySolutions, as applicable:

- 5 Day Notice
- 540/541, *Isotopic Summary*
- Copy of approved 741
- FBP-WM-PRO-00044-F10
- LDR form from WDS
- Original BOL/Manifest
- PCB Certification
- Regulated Asbestos Waste Shipment Record
- WP & EnergySolutions CL-WM-PR-002-F3 (EC-0230-SNM)

NOTE

When shipping under a BOL, EnergySolutions will receive originals, and copies are made and placed in shipping folder.

6.3.9 Ensure EnergySolutions receives all other copies of the Manifest EXCEPT for the Generators Initial Copy and the Transport copy of the Manifest.

NOTE

If mode of transport is by rail under a BOL, then there is no submission to NS.

6.3.10 IF mode of transport is by rail and requires a UHWM, THEN prior to release of shipment, fax or email a copy of the UHWM to NS Railway Co., Revenue Waybilling in Atlanta GA. Fax number: (800) 580-6092.

Supervisor

6.3.11 Ensure controlled TID and Security Lock, as applicable, are applied to the trailer door latches. If not enclosed in a trailer, chain packages to the bed of the trailer, and secure with Security Lock and TID, as applicable.

NOTE

If non-hazardous or universal waste, TIDs are **not** required.

6.3.12 Placard the transport vehicle/conveyance, as required by Transportation.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 26 of 65

TS

6.3.13 Review shipping documents with the driver of the transport vehicle.

NOTE

The confirmation should occur by no later than the end of the first working day after the estimated arrival.

6.3.14 **IF** shipment contains fissile material, or more than Type A quantity of Radioactive materials, **THEN** the shipper confirms with the consignee concerning any shipments that have not been received by the estimated arrival date.

6.3.15 **IF** the shipment is destined for the NNSS in addition to Step 6.3.16 and Step 6.3.17, **THEN**:

- Request from AWCO applicable forms (i.e., Driver's Route and Shipment Information Questionnaire, Prohibited Items List) for inclusion in driver's packet.

NOTE

Driver shall be notified that deviations from this route due to law enforcement re-routing, road construction, or weather-related changes shall have a concerted effort to return to the preferred route as soon as possible and will be reported to the PSS no later than 1 hour after the deviation. Under no circumstances is the driver permitted to re-route over the Hoover Dam Bypass Bridge or to the Las Vegas beltway (I-215) around or through the city of Las Vegas.

- Instruct the transport driver on the importance of fully completing the *Drivers Route and Shipment Information Questionnaire* at the NNSS before leaving the RWMC.
- Brief and test driver on special permits, if applicable.
- Review the documents, including the designated route in FBP-WM-PRO-00044-F11 and obtain the driver's signature of understanding.
- Ensure the carrier's driver packet includes the following documents:
 - Original completed and signed PSDR
 - Complete shipping papers with shipper's certification
 - Original signed Shipment Waste Certification Statement
 - LLW NNSS Certificate of Disposal/Destruction (COD)

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 27 of 65

- DOE/NRC Form 741

NOTE

Certifications/signatures shall be made legibly by a principal, officer, partner, or employee of the shipper, or his agent. They may be legibly signed manually, by typewriter, or by other mechanical means. They shall be signed by qualified TS and state “Fluor-BWXT Portsmouth LLC for the U.S. Department of Energy.”

6.3.16 Ensure the driver has signed the following, if applicable:

- Copy of special permit, if required
- FBP-WM-PRO-00044-F17, for other than NNSS shipments
- FBP-WM-PRO-00044-F10, for other than NNSS shipments
- FBP-WM-PRO-00044-F11
- FBP-WM-PRO-00044-F16
- NRC Forms 540/541 (Non-NNSS only)
- Original shipping paper with driver(s) name signed and printed legibly
- Regulated Asbestos Waste Shipment Record

6.3.17 Provide the driver with the following completed, signed documents, as applicable:

- Any additional documentation required by the TSDF
- Emergency Response Guide with DOT Basic Description
- Extra placards
- FBP-WM-PRO-00044-F10, for other than NNSS shipments
- FBP-WM-PRO-00044-F11
- FBP-WM-PRO-00044-F14, *Drivers Route to EnergySolutions, Clive, UT*, and obtain a signature of understanding that they have received instruction
- FBP-WM-PRO-00044-F17, for other than NNSS shipments
- HAZTRAK form
- Inbound and outbound radiological surveys signed by the RCT and Supervisor, as reported on FBP-RP-PRO-00177-F02

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 28 of 65

- LDR(s)
- Low-Level Waste NNSS Certificate of Disposal
- NNSS Barcode Labels (bulk ONLY)
- FBP-WM-PRO-00044-F16
- NRC Forms 540/541 and Isotope Report
- Original shipping paper with driver's name signed and printed legibly – driver will receive the original and a copy of the BOL/UHWM
- PSDR (signed original)
- Regulated Asbestos Waste Shipment Record
- Shipment Summary
- EnergySolutions CL-WM-PR-002-F3 (EC-0230-SNM)
- TSDF Advance Notice Form
- Waste Certification Statement (signed original)

6.3.18 Prior to releasing the shipment, scan the following, as applicable, and email to PSS, Transportation Manager, WCO, NMC&A, and eMWaste Database Administrator:

- BOL
- UHWM
- Emergency Response Guide with DOT Basic Description

6.3.19 Release the shipment from site.

6.3.20 **WHEN** shipment has left the site, **THEN** enter your initials in shipper column, date shipped, mode of transportation, and carrier into the shipment log.

6.3.21 Enter truck number, trailer number and conveyance type and change status to 'shipped' in the "Waste/Material Outbound Shipments" screen in accordance with FBP-WM-PRO-00046.

WCO/AWCO

6.3.22 Provide a copy of the NNSS Certificate of Disposal, as applicable, to the TS for addition to the SDF.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 29 of 65

TS

6.3.23 File SDF in approved repositories.

6.3.24 **IF** a shipment needs to return to FBP for any reason, **THEN** notify the following groups:

- NMC&A
- PSS
- RP
- TRANSCOM (if tracked)
- WCO
- TS Logistics
- Facility Manager (if returned to that facility)

6.3.25 **IF** contacted by the PSS for a transportation incident or emergency situation, **THEN** follow FBP-EM-PRO-00050, *Response to an Off-Site Transportation Incident*.

6.3.26 **IF** a transport vehicle destined for NNSS is involved in a transportation incident or emergency situation, **THEN** notify WCO who shall provide information to NNSA/Nevada Field Office (NNSA/NFO).

NOTE

Step 6.3.32 through step 6.3.33 apply only to shipments that require the use of a *Uniform Hazardous Waste Manifest* (EPA Form 8700-22) and/or Regulated Asbestos Waste Shipment Record.

If shipment was made by rail, the TSDF shall send the UHWM within 30 days of receipt of material. If it is not received, the TS shall contact the TSDF.

Certificate of Disposal/Destruction (CODs) for Toxic Substances Control Act (TSCA) shipments must be received within 1 year of shipment.

Certificate of Treatment (COT) and Certificate of Management (COM) are received as soon as possible.

6.3.27 Ensure a copy of COD, COT, or COM from the TSDF when disposal, treatment, or management has been completed and placed in SDF.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 30 of 65

6.3.28 For all asbestos-containing waste material transported off the facility site:

- A.** Maintain waste shipment records, using a form similar to that shown in Figure 4 in 40 CFR 61.149(f), and include the following information:
 - 1)** The name, address, and telephone number of the waste generator.
 - 2)** The name and address of the local, State, or EPA Regional office responsible for administering the asbestos National Emission Standards for Hazardous Pollutants (NESHAP) program.
 - 3)** The approximate quantity in cubic meters (cubic yards).
 - 4)** The name and telephone number of the disposal site operator.
 - 5)** The name and physical site location of the disposal site.
 - 6)** The date transported.
 - 7)** The name, address, and telephone number of the transporter(s).
 - 8)** A certification the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.
- B.** Provide a copy of the waste shipment record, described in step 6.3.28 A, to the disposal site owners or operators at the same time as the asbestos-containing waste material is delivered to the disposal site.
- C.** For waste shipments where a copy of the waste shipment record, signed by the owner or operator of the designated disposal site, is not received by the waste generator within 35 days of the date the waste was accepted by the initial transporter, contact the transporter and/or the owner or operator of the designated disposal site to determine the status of the waste shipment.
- D.** Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator if a copy of the waste shipment record, signed by the owner or operator of the designated waste disposal site, is not received by the waste generator within 45 days of the date the waste was accepted by the initial transporter. Include in the report the following information:
 - 1)** A copy of the waste shipment record for which a confirmation of delivery was not received, **and**
 - 2)** A cover letter signed by the waste generator explaining the efforts taken to locate the asbestos waste shipment and the results of those efforts.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 31 of 65

- E. Retain a copy of all waste shipment records, including a copy of the waste shipment record signed by the owner or operator of the designated waste disposal site, for at least 2 years.

6.3.29 PCB Exception reporting 40 CFR 761.217

- A. A generator of PCB waste, who does not receive a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 35 days of the date the waste was accepted by the initial transporter, shall immediately contact the transporter and/or the owner or operator of the designated facility to determine the status of the PCB waste.

NOTE

The Exception Report shall be submitted to the EPA no later than 45 days from the date on which the generator should have received the manifest.

- B. A generator of PCB waste subject to the manifesting requirements shall submit an Exception Report to the EPA Regional Administrator for the Region in which the generator is located if the generator has not received a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 45 days of the date the waste was accepted by the initial transporter.
- C. The Exception Report shall include the following:
 - 1) A legible copy of the manifest for which the generator does not have confirmation of delivery;
 - 2) A cover letter signed by the generator or his authorized representative explaining the efforts taken to locate the PCB waste and the results of those efforts.

6.3.30 PCB One-year exception reporting 40 CFR 761.219

- A. A generator or commercial storer of PCB waste who manifests PCBs or PCB Items to a disposer of PCB waste shall submit a One-year Exception Report to the EPA Regional Administrator for the Region in which the generator or commercial storer is located no later than 45 days from the date the following occurs:
 - 1) The generator or commercial storer transferred the PCBs or PCB Items to the disposer of PCB waste on a date within 9 months from the date of removal from service for disposal of the affected PCBs or PCB Items, as indicated on the manifest or continuation sheet; and

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 32 of 65

- 2) The generator or commercial storer either has not received within 13 months from the date of removal from service for disposal a Certificate of Disposal confirming the disposal of the affected PCBs or PCB Items, or the generator or commercial storer receives a Certificate of Disposal confirming disposal of the affected PCBs or PCB Items on a date more than 1 year after the date of removal from service.

B. The One-year Exception Report shall include:

- 1) A legible copy of any manifest or other written communication relevant to the transfer and disposal of the affected PCBs or PCB Items.
- 2) A cover letter signed by the submitter or an authorized representative explaining:
 - The date(s) when the PCBs or PCB Items were removed from service for disposal.
 - The date(s) when the PCBs or PCB Items were received by the submitter of the report, if applicable.
 - The date(s) when the affected PCBs or PCB Items were transferred to a designated disposal facility.
 - The identity of the transporters, commercial storers, or disposers known to be involved with the transaction.
 - The reason, if known, for the delay in bringing about the disposal of the affected PCBs or PCB Items within 1 year from the date of removal from service for disposal.

6.3.31 Obtain completed and signed UHWM from TSDF within 30 days of the date the waste was accepted by the transporter.

6.3.32 **IF** completed UHWM are not received by PORTS within 30 days of the date the waste was accepted by the transporter, **THEN** contact the TSDF to determine the status of the waste and manifest.

NOTE

Step 6.3.33 through step 6.3.35 apply only to shipments that require the use of NRC Forms 540/541.

6.3.33 Obtain the signed NRC Form 540 from the TSDF within 7 days of the date the waste was accepted at the TSDF.

6.3.34 **IF** signed NRC Form 540 is not returned to PORTS within 7 days of the date the waste was accepted at the TSDF, **THEN** contact the TSDF to determine the status of the waste and the manifest.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 33 of 65

- 6.3.35** IF signed NRC Form 540 is not received by PORTS, or acknowledgement of receipt of waste, within 20 days of the date the waste was accepted at the TSDF, **THEN** contact Transportation Manager to report the incident to the nearest NRC Regional Office.
- 6.3.36** Place the returned signed copy of the BOL, UHWM, NRC Form 540, and Regulated Asbestos Waste Shipment Record, as appropriate, in the SDF, and maintain for three years for Resource Conservation and Recovery Act (RCRA) and TSCA shipments and two years for radioactive material shipments.
- 6.3.37** **WHEN** the UHWM has been received from the TSDF, **THEN** review for completeness; including signatures and treatment code sections. File in appropriate SDF.

7.0 RECORDS

7.1 Records Generated

- A.** Shipment Summary
- B.** FBP-RP-PRO-00177-F02, *Radiological Survey Form*
- C.** FBP-RP-PRO-00004-F01, *Request to Release Material/Equipment From Department of Energy Control*
- D.** FBP-WM-PRO-00039-F02, *Shipment Load List*
- E.** FBP-WM-PRO-00044-F01, *Fluor BWXT Portsmouth LLC (FBP) Shipment Document Folder Checklist*
- F.** FBP-WM-PRO-00044-F02, *Nevada National Security Site (NNSS) Document Review Checklist*
- G.** FBP-WM-PRO-00044-F03, *Fluor-BWXT Portsmouth LLC Low-Level Waste (LLW) Nevada National Security Site (NNSS) Certificate of Disposal*
- H.** FBP-WM-PRO-00044-F05, *Truck Inspection Checklist*
- I.** FBP-WM-PRO-00044-F06, *NRC 540-541 Uniform Low-Level Radioactive Waste Manifest*
- J.** FBP-WM-PRO-00044-F07, *Transportation Regulatory Compliance Checklist*
- K.** FBP-WM-PRO-00044-F08, *Field Inspection Regulatory Compliance Checklist*
- L.** FBP-WM-PRO-00044-F09, *Trailer Inspection Checklist*
- M.** FBP-WM-PRO-00044-F10, *Fluor BWXT Portsmouth LLC for the USDOE Instructions Regarding Enroute Security and Controls for Shipments Consigned as Exclusive Use (Sole Use or Full Load)*

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 34 of 65

- N. FBP-WM-PRO-00044-F11, *Fluor BWXT Portsmouth LLC (FBP) Nevada National Security Site (NNSS) Carrier's Driver Packet EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE SHIPMENT*
- O. FBP-WM-PRO-00044-F14, *Drivers Route to EnergySolutions, Clive, UT*
- P. FBP-WM-PRO-00044-F16, *Notice to Driver*
- Q. FBP-WM-PRO-00044-F17, *Dedicated Truck Instructions*
- R. FBP-WM-PRO-00044-F18, *Prohibited and Controlled Articles*
- S. FBP-WM-PRO-00046-F05, *Change to Waste Tracking Information*
- T. Land Disposal Restriction LDR Form
- U. NMC&A DOE/NRC Form 741
- V. NNSS *Shipment Waste Certification Statement* (signed copy)
- W. Regulated Asbestos Waste Shipment Record
- X. SDF

7.2 Requirements

Records generated or received as a result of performing this procedure shall be managed in accordance with FBP-BS-PRO-00062.

8.0 DEFINITIONS/ACRONYMS

8.1 Definitions

None

8.2 Acronyms

- A. **AWCO** – Alternate Waste Certification Official
- B. **BOL** – Bill of Lading
- C. **CDL** – Commercial Drivers License
- D. **CFR** – Code of Federal Regulations
- E. **COD** – Certificate of Disposal/Destruction
- F. **COM** – Certificate of Management
- G. **COT** – Certificate of Treatment
- H. **CWT** – Change to Waste Tracking

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 35 of 65

- I. DOE** – United States Department of Energy
- J. DOT** – Department of Transportation
- K. EPA** – Environmental Protection Agency
- L. FBP** – Fluor-BWXT Portsmouth LLC
- M. HAZMAT** – Hazardous Material
- N. HCO** – Headquarters Certifying Official
- O. IATA** – International Air Transport Association
- P. ICAO** – International Civil Aviation Organization
- Q. ID** - Identification
- R. IMDG** – International Maritime Dangerous Goods
- S. LDR** – Land Disposal Restriction
- T. LLW** – Low-Level Waste
- U. LWIS-G** – Low-Level Waste Information System for Generators
- V. MW** – Mixed Waste
- W. NAC** – Nevada Administrative Code
- X. NDA** – Nondestructive Assay
- Y. NESHAP** – National Emission Standards for Hazardous Air Pollutants
- Z. NMC&A** – Nuclear Materials Control & Accountability
- AA. NNSS** – Nevada National Security Site
- BB. NRC** – Nuclear Regulatory Commission
- CC. PCB** - Polychlorinated Biphenyl
- DD. PSDR** – Package Shipment and Disposal Request
- EE. PORTS** – Portsmouth Gaseous Diffusion Plant
- FF. PORTSMAS** – Portsmouth Materials Accountability System
- GG. QA** – Quality Assurance
- HH. RALLW** – Regulated Asbestos Low-Level Waste

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 36 of 65

- II. RCT** – Radiological Control Technician
- JJ. RP** – Radiological Protection
- KK. RWMC** – Radioactive Waste Management Complex
- LL. SDF** – Shipment Documentation Folder
- MM. SDS** – Safety Data Sheets
- NN. SNM** – Special Nuclear Material
- OO. TID** – Tamper Indicating Device
- PP. TSCA** – Toxic Substances Control Act
- QQ. TS** – Transportation Specialist
- RR. TSDF** – Treatment, Storage and Disposal Facility
- SS. UHC** – Underlying Hazardous Constituents
- TT. UHWM** – Uniform Hazardous Waste Manifest
- UU. WAC** – Waste Acceptance Criteria
- VV. WC** – Waste Certification
- WW. WCO** – Waste Certification Official
- XX. WDIG** Waste Disposal Information Generator
- YY. WDS** – Waste Disposition Specialist
- ZZ. WMG** – Waste/Material Generation Form
- AAA. WP** – Waste Profile
- BBB. WPC** – Waste Package Certifier

9.0 SOURCE REFERENCES

- A.** Bill of Lading or Uniform Hazardous Waste Manifest
- B.** DOE O 474.2, *Nuclear Material Control and Accountability*
- C.** DOE/NRC Form 741, *Nuclear Material Transaction Report*
- D.** DOE/NV-325, *Nevada National Security Site Waste Acceptance Criteria*
- E.** Emergency Response Guidebook

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 37 of 65

- F.** EnergySolutions, *Polychlorinated Biphenyl (PCB) Waste Certification*, CL-WM-PR-001 F4 (EC-98279)
- G.** EnergySolutions, *Special Nuclear Material Exemption Certification*, CL-WM-PR-001 F3 (EC-0230-SNM)
- H.** EPA Form 8700-22, *Uniform Hazardous Waste Manifest*
- I.** FBP-MC-PL-00002, *Nuclear Materials Control and Accountability Plan for the Facilities Managed by Fluor-BWXT Portsmouth LLC*
- J.** FBP-PM-PDD-00001, *Integrated Safety Management System*
- K.** FBP-RP-PRO-00176, *Radiological Survey Performance*
- L.** FBP-WM-PL-00102, *FBP Transportation Security Plan for the Off-Site Shipment of Hazardous Material*
- M.** FBP-WM-PRO-00063, *Certification of PORTS Waste for Disposal at the Nevada National Security Site*
- N.** International Air Transport Association (IATA) Dangerous Goods Regulations
- O.** International Atomic Energy Agency (IAEA) Regulations for the Safe Transport of Radioactive Material
- P.** International Civil Aviation Organization Dangerous (ICAO) Goods Code
- Q.** International Maritime Dangerous Goods (IMDG) Code
- R.** Nevada Administrative Code 444.8632
- S.** NNSS barcode labels
- T.** NNSS Package Shipment and Disposal Request
- U.** NRC Form 541, *Uniform Low-Level Radioactive Waste Manifest, Container and Waste Description*
- V.** PMA/PORTS-16-0753, *Transportation Security*
- W.** Title 10 CFR 20, Appendix G, *Requirements for Transfers of Low-Level Radioactive Waste Intended for Disposal at Licensed Land Disposal Facilities and Manifests*
- X.** Title 10 CFR 71, NRC, *Packaging and Transportation of Radioactive Material*
- Y.** Title 40 CFR, *Protection of Environment*
- Z.** Title 49 CFR, *Transportation*
- AA.** U.S. NRC Form 540, *Uniform Low-Level Radioactive Waste Manifest, Shipping Paper*


TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 38 of 65

Appendix A
REGULATORY REQUIREMENTS FLOW DOWN

1. Bill of Lading or Uniform Hazardous Waste Manifest
2. DOE O 474.2, *Nuclear Material Control and Accountability*
3. DOE/NRC Form 741, *Nuclear Material Transaction Report*
4. DOE/NV-325, *Nevada National Security Site Waste Acceptance Criteria*
5. EnergySolutions, *Polychlorinated Biphenyl (PCB) Waste Certification*, CL-WM-PR-001 F4 (EC-98279)
6. EnergySolutions, *Special Nuclear Material Exemption Certification*, CL-WM-PR-001 F3 (EC-0230-SNM)
7. International Air Transport Association (IATA) Dangerous Goods Regulations
8. International Atomic Energy Agency (IAEA) Regulations for the Safe Transport of Radioactive Material
9. International Civil Aviation Organization (ICAO) Dangerous Goods Code
10. International Maritime Dangerous Goods (IMDG) Code
11. Nevada Administrative Code 444.8632
12. NNSS Shipment Waste Certification Statement
13. NNSS Package Shipment and Disposal Request
14. NRC Form 541, *Uniform Low-Level Radioactive Waste Manifest, Container and Waste Description*
15. Title 10 CFR 20, Appendix G, *Requirements for Transfers of Low-Level Radioactive Waste Intended for Disposal at Licensed Land Disposal Facilities and Manifests*
16. Title 10 CFR 71, *NRC, Packaging and Transportation of Radioactive Material*
17. Title 40 CFR, *Protection of Environment*
18. Title 49 CFR, *Transportation*

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 39 of 65

Attachment A
FLUOR-BWXT PORTSMOUTH LLC (FBP) SHIPMENT DOCUMENT FOLDER CHECKLIST

 FLUOR-BWXT PORTSMOUTH LLC (FBP) SHIPMENT DOCUMENT FOLDER CHECKLIST					
RETURN DOCUMENTATION from TSDF	Y	N/A	Right Side	Y	N/A
BOL / UHWM			BOL / UHWM / Airway Bill		
NRC Form 540/541 <i>Uniform Low-Level Radioactive Waste Manifest</i>			FBP-WM-PRO-00044-F10, <i>Exclusive Use Instructions</i>		
Regulated Asbestos Waste Shipment Record			FBP-WM-PRO-00044-F17, <i>Dedicated Truck Instructions</i>		
Appropriate Certificate of (Treatment/Disposal/Recycle/Management) Completed			FBP-WM-PRO-00044-F11, <i>Exclusive Use/Dedicated Service Instructions for NNSS Carrier's Driver Packet, Page 1 only</i>		
			NRC Forms 540/541/Isotopic Summary (For information Only, as applicable)		
SHIPPED in eMWaste			NRC Forms 540/541/Isotopic Summary (Signed Live Copy)		
			FBP-WM-PRO-00044-F14, <i>Drivers Route to EnergySolutions, Clive UT</i>		
Left Side	Y	N/A			
Notified PSS, NMC&A, Trans. Mgr, eMWaste, WCO e-mail upon departure			FBP-WM-PRO-00063-F08, <i>Signed Waste Certification Statement</i>		
FBP-WM- PRO-00044-F16, <i>Notice to Driver</i>			NNSS Package Shipment & Disposal Request		
NNSS Upload e-mail Notification			FBP-WM-PRO-00039-F02, <i>Shipment Load List</i>		
HAZTRAK Entry Confirmation			Shipment Summary Spreadsheet		
FBP-WM-PRO-00044-F18, Prohibited and Controlled Articles			FBP-WM-PRO-00039-F03, <i>Shipment Load Securement List</i>		
FBP-WM-PRO-00044-F08, <i>Field Inspection Regulatory Compliance Checklist</i>			Regulated Asbestos Waste Shipment Record		
FBP-WM-PRO-00044-F05, <i>Truck Inspection Checklist</i>					
FBP-WM-PRO-00044-F09, <i>Trailer Inspection Checklist</i>			Land Disposal Restrictions/Underlying Hazardous Constituents		
Incoming _____ and _____ Outgoing Surveys			TSDF Notice to Transport/TSDF Special Nuclear Materials Forms		
FBP-WM-PRO-00044-F07, <i>Transportation Regulatory Compliance Checklist</i>					
FBP-WM-PRO-00044-F02, <i>NNSS Document Review Checklist</i>					
FBP-WM-PRO-00044-F06, <i>NRC 540/541 Uniform Low-Level Radioactive Waste Manifest</i>			Reviewed copy of DOE/NRC 741 from NMC&A & PORTSMAS Report, if applicable.		
			All characterization/classification documentation		
			Calculation Spreadsheets		
Before filing this Shipping Document Folder, a final review shall be conducted of the folder and its contents.			Waste Material Generation (WMG)		
			Container or Content Surveys (Smears at Contact & 1-Meter Dose Rates)		
Final Review (Print / Sign):			Final Review Date:		

TITLE:	FBP-WM-PRO-00044
	REV. NO. 24
	Page 40 of 65

Preparing Off-Site Shipments of Hazardous Materials

Attachment B

NEVADA NATIONAL SECURITY SITE (NNSS) DOCUMENT REVIEW CHECKLIST



NNSS Shipment No.:	NNSS Profile No., Rev No., Rev. Date:
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	CRITERIA	YES	Not Applicable
Special Permit DOT-SP 14267	Type A package meeting the requirements of 49 CFR 173.461 through 173.465 required		
	Package internal volume \geq 90 cubic feet		
	U-235 is the only fissile material present, with a maximum of 252 grams (with uncertainty) per package		
	Only DOT-SP 14267 packages are shipped in the same conveyance (minimum CSI = 50)		
WMG / CWT	All signatures are present on Form(s) (e.g., Waste Generator, Waste Disposition Specialist, Waste Package Certifier, and eMWaste Database Coordinator, as applicable)		
Pre-Shipment Radiological Survey(s)	Indicates contact and 1-meter dose rates per package		
	Indicates removable contamination levels per package		
	All signatures are present (i.e., HP Tech and HP Supervisor)		
NRC 540/541 (For Information Only)	NRC Form 540, Item No. 3, indicates total number of packages in the shipment		
	NRC Form 540, Item No. 4, indicates UHWM Tracking No., if applicable		
	NRC Form 540, item No. 5, indicates Shipment ID No. (Bill of Lading)		
	NRC Form 540, Item No. 5 (Shipment Number) and No. 8, indicates NNSS Shipment No.		
	NRC Form 540, Item No. 17, indicates waste volume and matches the WMG/CWT(s)		
	NRC Form 540, Item No. 17, indicates package gross weight and matches the WMG/CWT		
Shipment Summary	NRC Form 540, Item No. 18, indicates WMG Nos.		
	Indicates NNSS Shipment Number, Shipping Paper No., and Control No. if different from Shipping Paper No. <i>Note: If MW, a UHWM will be indicated on the shipment summary.</i>		
	Indicates WMG No., Secondary Container ID No. (e.g., serial number), if applicable, TID Nos., if applicable, and gross and tare weights for all packages in the shipment, and matches the WMG/CWT(s)		
	Indicates external package/waste volumes and activities per package and matches information on the NRC Forms 540/541		
	Indicates Gross Weight for the shipment and matches the NRC Form 541 <i>Note: Verify by totaling individual package gross weights</i>		
	____ If Shipment Gross Weight is \leq 40,000 lbs., N/A ____ If Shipment Gross Weight is $>$ 40,000 lbs., Management approval required		
Bar Code Labels	Indicates NNSS Shipment Number and matches the Shipment Summary		
	Indicates NNSS Package ID Number and matches the Shipment Summary		
	Indicates Gross Weight of Package (lbs. and kgs.) and matches the Shipment Summary		
Package Shipment & Disposal Request (PS&DR)	Indicates Shipment Number (i.e., NNSS Shipment Number POL10000)		
	Indicates Manifest Number (UHWM Tracking Number), if applicable		
	All containers listed on the Shipment Summary are included		
	Indicates Container Code and Volumes (External and Waste ft ³)		
	Indicates Contact, 30cm and 1-Meter Readings, and matches the Pre-Shipment Radiological Survey		
	Indicates Completed Date and matches the final signature date on the WMG/CWT		
	Indicates Activity Date and matches the date the NRC Forms 540/541 were created		
	Indicates container Gross Weight and Net Weight in kgs.		
	Comment identifies original rejected package number in parentheses (parent), if applicable		
	Indicates Package Funding Source: BASE; Program: EM (unless directed otherwise)		
	Indicates Waste Stream/Profile Number, Revision Number, and Revision Date (See Profile)		
	Indicates Radionuclide-specific Becquerel values and matches the NRC Form 541		
	Indicates waste codes, if MW, and matches the LDR <i>Note: PCBs, if applicable, should be listed as a waste code,; however, an LDR is not required</i>		
	Indicates sum of all Nuclide Qty (Bq) matches Total Activity (Bq)		
	Indicates Package Contents/Disposal Cell Type(s) (See Profile)		
	Indicates Other Considerations coincide with package information		
	Indicates Polychlorinated Biphenyl section matches the FBP-WM-PRO-00063-F13		
	All pages have been signed by the Preparer		

Print/Sign	Date
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TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 41 of 65

Attachment C
FLUOR BWXT PORTSMOUTH LLC (FBP) LOW LEVEL WASTE (LLW)
NEVADA NATIONAL SECURITY SITE (NNSS) CERTIFICATE OF DISPOSAL



Fluor-BWXT Portsmouth LLC (FBP) Low Level Waste (LLW)
Nevada National Security Site (NNSS) Certificate of Disposal

Fluor-BWXT Portsmouth LLC LLW NNSS Certificate of Disposal	
CONSIGNOR - Name and Facility Address Fluor-BWXT Portsmouth LLC for the U.S. Department of Energy 3930 U.S. Route 23 South Piketon, Ohio 45661	Contact: <div style="text-align: center; padding: 5px;">Mike Hall</div> <div style="background-color: #cccccc; height: 20px; margin: 5px 0;"></div> Telephone Number: <div style="text-align: center; padding: 5px;">740-897-3499</div>
Shipment Date:	
NNSS Expected Arrival Date:	
Shipment Number:	
Number of Packages and Type:	
Disposal Volume (ft³):	
CONSIGNEE - Name and Facility Address U.S. National Nuclear Security Administration c/o Mission Support and Test Services, LLC Waste Management Nevada National Security Site Area 5 – Radioactive Waste Management Complex Mercury, Nevada 89023	Contact: <div style="text-align: center; padding: 5px;">Jon Tanaka</div> <div style="background-color: #cccccc; height: 20px; margin: 5px 0;"></div> Telephone Number: <div style="text-align: center; padding: 5px;">702-295-2870</div>
Signature <small>*Authorized consignee acknowledging waste receipt and disposal*</small>	Date:


NNSS RECEIVING PERSONNEL:

1. PLEASE SIGN AND DATE THIS DOCUMENT
2. PLEASE SIGN AND DATE THE BILL OF LADING
3. PLEASE FAX OR EMAIL BOTH SIGNED AND DATED DOCUMENTS TO THE CONSIGNOR

FAX: 740-897-2545
Email: mike.hall@ports.pppo.gov

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 42 of 65

Attachment D
TRUCK INSPECTION CHECKLIST

	Truck Inspection Checklist
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Note: Applies to off-site shipment of hazardous (including radioactive) material(s)/waste(s) - highway or rail transportation

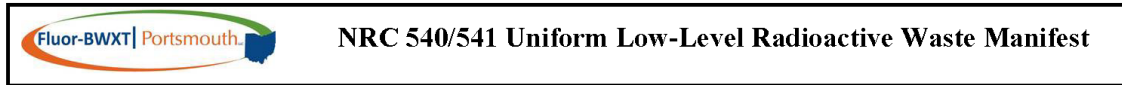
Carrier: _____ ; Truck/License No. _____ / _____

	CRITERIA	YES	N/A
Vehicle Inspection	Current Truck Inspection: ____/____ Next Inspection Due: ____/____		
	Verify Kingpin is Locked at time of Departure from Site		
	Tires must:		
	1. NOT expose ply or belt material through the tread or sidewall;		
	2. NOT have tread or sidewall separation;		
	3. NOT be flat or have an audible leak; or		
	4. NOT have a cut to the extent ply or belt material is exposed.		
	Wheels and rims are not cracked or broken, and no nuts or bolts are missing or loose.		
	Tractor is equipped with unimpaired metal protectors or flexible mud flaps on the rearmost wheels		
	Windshield wipers are in good condition and function properly		
	Windshield/windows are free of discoloration or damage that would impair the driver's vision		
	Tractor is equipped with (2) unimpaired rear mirrors / side mirrors		
	Horns function properly		
	All lamps (e.g. headlamps, turn signals, tail lamps, hazard lamps) function properly.		
	Fire Extinguisher is present		
	Tie downs, cargo securement systems, parts and components are not damaged in a manner that would adversely affect their performance for securement purposes.		
	Tie downs must:		
	1. NOT contain knots, cracks or cuts		
	2. Be attached in a manner that prevents it from becoming loose, unfastening, or opening while the transport vehicle is in transit (Tie downs may not be fasted over rub rails);		
3. Have edge protection when it is subject to abrasion or cutting; and			
4. NOT exceed the working load limit (WLL) of the tie down			
At a minimum, (1) tie down is attached for every 10 linear feet of cargo			
Cargo is blocked/braced from forward motion, if no header board/bulkhead			
Load does not exceed 80,000lbs			
Height of loaded trailer does not exceed 13'6" unless special permit			
Width of load does not exceed 102" unless special permit			
Special Permit for Overweight Shipments			
Special Permit for Oversized/Over dimensional Shipments			

<input type="checkbox"/> ACCEPT	<input type="checkbox"/> REJECT (Explain below)
Comments:	
Print/Sign	Date

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 43 of 65

Attachment E
NRC 540/541 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST
Page 1 of 2



Note: Applies to off-site shipment of hazardous (including radioactive) material(s)/waste(s) - highway or rail transportation

Shipment Number: _____ Control Number: _____

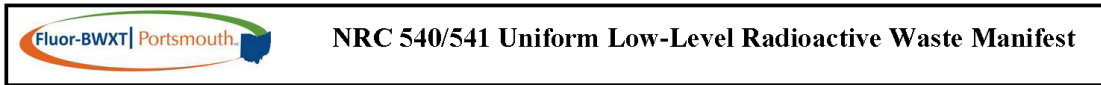
FORM 540	CRITERIA	YES	Not Applicable
Item No. 1	Emergency Response Telephone Number is indicated: 740-897-3025		
Item No. 2	Indicates "Yes" for Exclusive Use Shipment if applicable		
Item No. 3	Indicates Total Number of Packages Identified on this Manifest, and matches the Shipment Summary and Shipping Paper		
Item No. 4	If applicable, indicates the Uniform Hazardous Waste Manifest Tracking Number. If not applicable, indicates "N/A"		
Item No. 5	Indicates Shipper Facility Name and Address		
	If applicable, indicates User Permit Number (Permit or similar number assigned to the Shipper by the appropriate Host State in which the designated licensed TSDF is located)		
	Indicates Shipper Facility Contact Name and Telephone Number		
Item No. 6	Indicates Carrier Name, Address, EPA ID Number, Contact and Telephone Number		
Item No. 7	Indicates the total number of pages for each set of NRC Forms (i.e., Forms 540 and 540A, 541 and 541A, 542 and 542A)		
	Indicates total number of pages for any Additional Information (e.g., Isotope Report)		
Item No. 8	Indicates the NRC Manifest Number (e.g., TSDF Profile Number and Trip Number for EnergySolutions)		
Item No. 9	Indicates the Consignee Name, Address, Contact, and Phone Number		
Item No. 10	Certification is signed by authorized representative (i.e., Transportation Specialist)		
Item No. 11	Indicates the USDOT proper shipping description at a minimum, and matches the description on the Shipping Paper		
Item No. 12	Indicates "N/A", unless fully regulated Class 7 material/waste		
Item No. 13	Indicates "N/A", unless fully regulated Class 7 material/waste		
Item No. 14	Indicates Physical and Chemical form of the material/waste, and matches the Shipping Paper if regulated as Class 7 material/waste		
Item No. 15	Indicates Individual Radionuclides present in the material/waste <i>Note: Minimum listing shall be determined in accordance with 49 CFR 173.433</i>		
Item No. 16	Indicates Total Package Activity in MBq, and matches the Shipping Paper if regulated Class 7 material/waste		
Item No. 17	Indicates appropriate LSA/SCO Class if regulated as LSA/SCO Class 7 material/waste		
Item No. 18	Indicates the Total Weight or Volume of the package, in appropriate SI units, and matches the Shipment Summary and Shipping Paper <i>Note: Verify both weight and volume if present</i>		
Item No. 19	Indicates Identification Number of Package, and matches the Shipment Summary and Shipping Paper		

TITLE:		FBP-WM-PRO-00044
	Preparing Off-Site Shipments of Hazardous Materials	REV. NO. 24
		Page 44 of 65

Attachment E

NRC 540/541 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

Page 2 of 2



Note: Applies to off-site shipment of hazardous (including radioactive) material(s)/waste(s) - highway or rail transportation

Shipment Number: _____ Control Number: _____

FORM 541	CRITERIA	YES	Not Applicable
Item No. 1	Indicates the Number of Packages described on the Form 540		
	Indicates the Net Waste Volume and Net Waste Weight described on the Form 540, and matches applicable information listed on the Shipment Summary		
	Indicates Special Nuclear Material (grams), All Nuclides Activity (MBq) and Source (kg)		
Item No. 2	Indicates the Manifest Number listed on the Form 540, Item No. 8		
Item No. 3	Indicates Page 1 of ____ Page(s), and matches the total number of Form 541 and 541 A pages		
Item No. 4	Indicates the Shipper Name listed on Form 540, Item No. 5		
Item No. 5	Indicates Container Identification Number as described on Form 540, Item No. 19		
Item No. 6	Indicates the Container Description using the codes listed in Note 1 and Note 1A of Form 541 <i>Note: If code 19 "Other" is used, a written explanation is required in Item No. 6</i>		
Item No. 7	Indicates the volume of the disposal container to the nearest hundredth of a m3 at a minimum <i>Note: Always include a "0" in front of the decimal, if less than 1</i>		
Item No. 8	Indicates the combined weight (kg) of the container plus contents		
Item No. 9	Indicates the waste weight (kg) of the container		
Item No. 10	Indicates the highest Surface Radiation Level of the disposal container in mSv/hr <i>Note: Verify highest radiological survey result in mrem/hr matches Form 541</i>		
Item No. 11	Indicates the highest Surface Contamination of the disposal container in MBq/100 cm2 <i>Note: Verify highest radiological survey result in dpm/100 cm2 matches Form 541</i>		
Item No. 12	Indicates the codes that most specifically describe the waste using the codes listed in Note 2 and Note 2A of Form 541, listing up to three which predominate by volume <i>Note: If code 59 "Other" is used, a written explanation is required in Item No. 11</i>		
Item No. 13	Indicates the approximate volume in m3 of containerized waste		
Item No. 14	Indicates the Sorbent, Solidification, or Stabilization Media used to solidify or absorb waste material, using the codes listed in Note 3 of the Form 541 <i>Note: If code 89 or 99 "Other" is used, a written explanation is required in Item No. 13</i> <i>Note: If the solidification process is intended to stabilize the waste in accordance with 10 CFR 61.56(b) and TSDF requirements, a letter "-S" must be entered following the appropriate code. For all wastes meeting the stability requirements, the manufacturer and brand name of the solidification media must be identified.</i>		
Item No. 15	Indicates the most prevalent chemical forms of the waste		
Item No. 16	Indicates Individual Radionuclides present in the material/waste and their respective activities in MBq <i>Note: Special Nuclear Material must be reported in MBq and grams (g), and Source Material must be reported in MBq and kilograms (kg). Weight quantities must be reported in brackets adjacent to the activity listing (e.g., [5.07E-01 g], [7.06E-06 kg]).</i>		
Item No. 17	Indicates the Waste Classification and structural stability of the waste in accordance with NRC requirements or the radioactive material license of the TSDF (e.g., AS – Class A Stable, AU – Class A Unstable, B – Class B, C – Class C, GTCC – Greater than Class C)		

Print/Sign	Date
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TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 45 of 65

Attachment F
TRANSPORTATION REGULATORY COMPLIANCE CHECKLIST
Page 1 of 3

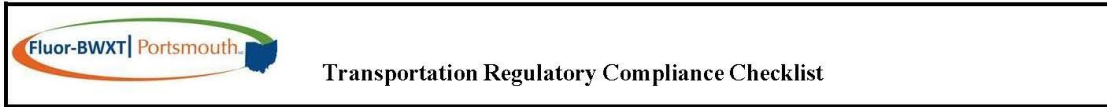


Shipment Number: _____ Control Number: _____

	CRITERIA	YES	N/A
Container Verification	Load List container numbers match the 540/541, Shipping Paper and Shipment Summary		
	Weights on WMG/WCT match the Shipment Summary, 540/541 and Shipping Paper		
	Waste codes on WMG/WCT match the UHWM/540		
	The physical form on WMG/WCT matches the 540/541 and Shipping Paper		
	Container types on WMG/WCT match the 540/541 and Shipping Paper		
	The number of containers on the Load List matches the 540/541 and Shipping Paper		
	Waste volume ft3 on WMG/WCT matches the Shipment Summary		
Radiological Data Verification	A 741 has been submitted to NMC&A in order to determine accountability and attractiveness level		
	Isotopes in calculation spreadsheet match the 541 for each container		
	Total Activity on calculation spreadsheet is equal to the Total Activity for each container on the 540		
	Container weight and physical form on approved calculation spreadsheet match the information listed on the 540/541		
	The proper shipping name on the UHWM/BOL correlates with the information produced by calculation spreadsheet (i.e., LSA, Ltd Qty, Fissile Excepted) (If the material is a mixture of LSA and SCO, LSA classification is appropriate)		
Shipment Requirements	If Liquid, the package meets the Fissile Exception requirements of 49 CFR 173.453(a), (b), or (e)		
	Symbols (column 1 of HMT)		
	Special Provisions (column 7 of HMT)		
	Packaging Authorization (list citation – column 8 of HMT):		
	Ensure RCRA and/or PCB TSCA Regulated Waste is documented on a UHWM		
	If NESHAP Regulated Asbestos – Ensure Asbestos Waste Shipment Record is completed		
Uniform Hazardous Waste Manifest (UHWM)	If Toxic Hazardous Materials – Ensure all requirements of 49 CFR 172.313 are met		
	DOES THIS SECTION APPLY TO THIS SHIPMENT		
	The EPA Manifest Tracking Number matches the manifest number assigned in the Control Log		
	The EPA Manifest Tracking Number matches the manifest number listed in item 4 of the 540		
	Generator ID Number: OH7890008983		
	The correct number of pages is noted in block 2		
	Generator name, mailing address, site address, and phone number		
	Transporter Company name		
	Transporter EPA ID number		
	Designated Facility name, address and phone number		
	Designated Facility EPA ID number		
	PCB ONLY: Start date and waste type listed. Net waste in Kg's item 12. Total Quantity item 11		
	If there are multiple pages, the first block on the continuation page references "continued from"		
	NRC Forms 540/541 Number (matches item 8 of the 540) or NNSS Shipment Number listed in Special Handling Instructions, if applicable		
	Control Number listed in Special Handling Instructions matches the number assigned in the Shipment Log		
	TID numbers listed for individual packages, if applicable		
	Signature Line: "Fluor-BWXT Portsmouth LLC for the U.S. Department of Energy"		
	Comments include "If undeliverable, return to generator, return signed original UHWM within 30 days"		

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 46 of 65

Attachment F
TRANSPORTATION REGULATORY COMPLIANCE CHECKLIST
Page 2 of 3



Shipment Number: _____ Control Number: _____

	CRITERIA	YES	N/A
Bill of Lading	DOES THIS SECTION APPLY TO THIS SHIPMENT		
	Bill of Lading number matches the number assigned in the Shipment Log		
	Shipper listed		
	Shipping date		
	NNSS shipment ONLY: NNSS shipment number listed as the Reference Number		
	Consignee's name and address		
	Carrier's name		
	TID numbers listed for individual packages, if applicable		
	Applicable labels listed		
	Applicable placards listed		
	Shipper and Contract # DEAC30-10CC 40017 listed in the signature block		
	Signature Line: "Fluor-BWXT Portsmouth LLC for the U.S. Department of Energy"		
	Carrier listed in the signature block		
Shipping Paper Descriptions	"X" or "RQ"		
	Page 1 of ____ (Continuation pages consecutively numbered)		
	24-Hour "EMERGENCY CONTACT" Phone Number: 740-897-3025		
	Identification Number & Proper Shipping Name (PSN)		
	Hazard Class or Division		
	(Subsidiary Hazard Class or Division)		
	Packing Group		
	Total Weight of Material Covered by One Description		
	Number of Containers and Type of Packaging		
	ERG Number		
	Printed Name of Person certifying the shipment		
	"Dedicated Service" Shipment		
	Railcar reporting mark and number (i.e., ENVX206154)		
Additional Descriptions General	DOES THIS SECTION APPLY TO THIS SHIPMENT 172.203		
	Special Permit Number "DOT-SP 14267" 172.203(a)		
	"Limited Quantity" or "Ltd Qty" 172.203(b)		
	Limited Quantities of Radioactive Material described as other than Class 7: "Limited quantity radioactive material"		
	RCRA ONLY: The word "waste" is in the proper shipping name or directly in front of the proper shipping name		
	"Mixture" or "Solution" as appropriate		
	Hazardous Substance(s) in () in association with the basic description (if Mixture or Solution of two or more –at least two) if not identified in PSN (For Hazardous Waste, waste code may be used) 172.203(c)		
	Technical Names for "n.o.s." and other Generic Descriptions (if Mixture or Solution of two or more – at least two) if not identified in PSN 172.203(k)		
	"Marine Pollutant" and Constituent in () for Bulk Shipments Only 172.203(l)		
	"Poison – Inhalation Hazard" & "Zone A, Zone B, Zone C, or Zone D," as appropriate 172.203(m)		
	An indication the shipment contains oil, per 49 CFR 130.11 (Bulk packaging, refer to 130.2)		
	Transportation by Rail 172.203(g)(1)		
	Organic peroxides and self-reactive materials 172.203(o)		

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 47 of 65

Attachment F
TRANSPORTATION REGULATORY COMPLIANCE CHECKLIST
Page 3 of 3



Shipment Number: _____ Control Number: _____

	CRITERIA	YES	N/A
Radioactive Material Additional Description Requirements	DOES THIS SECTION APPLY TO THIS SHIPMENT 172.203(d)		
	Radionuclide Symbol(s), per 173.433(g)		
	Physical & Chemical Form, if not Special Form		
	Activity per Package(s) in SI units verified to equal or exceed NRC 540 Box 16		
	Category of Radioactive Label: Radioactive White-I, Radioactive Yellow-II, or Radioactive Yellow-III, if applicable		
	Transport Index for Radioactive Yellow-II or Yellow-III		
	"Fissile Excepted" or Criticality Safety Index		
	Package Identification (Notation of the package Identification as prescribed in DOE or NRC approval)		
Shipment Summary	DOES THIS SECTION APPLY TO THIS SHIPMENT		
	Package, freight container, and transport vehicle markings are identified and correlate with PSN		
	Package primary and subsidiary hazard labels are identified and correlate with hazard class/division assignment		
	<u>For Radioactive White-I labels only</u> , must include 95% Reporting Nuclides and Activity in SI Units		
	<u>For Radioactive Yellow II labels and Yellow III labels only</u> , must include 95% Reporting Nuclides, Activity in SI units, and TI		
	<u>For Fissile labels only</u> , must include CSI		
	Bulk package, freight container, and transport vehicle placards are identified and correlate with hazard class/division assignment		
Regulated Asbestos Waste Shipment Record (AWSR)	DOES THIS SECTION APPLY TO THIS SHIPMENT		
	Work Site information		
	Operator's name and address		
	Waste Disposal Site information		
	Responsible Agency: US EPA Region 5 77 West Jackson Blvd Chicago, IL 60604		
	Material description		
	Number of Containers and container type		
	Total quantity		
	Shipment number is listed in the additional information block		
Land Disposal Restrictions (LDR)	DOES THIS SECTION APPLY TO THIS SHIPMENT		
	The EPA Manifest Tracking Number listed matches the UHWM		
	The Line Item(s) listed on the LDR match the Line Item(s) on the UHWM		
	The Waste Code(s) listed match the waste code(s) on the UHWM		
	If noted on LDR, UHCs are attached		
Special Nuclear Material Exemption Certification (Energy/Solutions Only)	DOES THIS SECTION APPLY TO THIS SHIPMENT		
	*Must be completed if <i>Notice to Transport</i> section is completed.		
	Waste stream number matches the first 6 digits of the manifest number listed in item 8 of the 540		
Print/Sign:		Date:	

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 48 of 65

Attachment G
FIELD INSPECTION REGULATORY COMPLIANCE CHECKLIST
Page 1 of 2

Field Inspection Regulatory Compliance Checklist			
Shipment Number: _____		Control Number: _____	
Carrier: _____		Date: _____ Truck/Trailer Numbers: _____	
	CRITERIA	YES	N/A
Packaging 49 CFR 178.500	Container Type: _____ Quantity: _____ Visual Inspection Performed (to ensure integrity of all packages)		
Marking for Non-Bulk Packages	DOES THIS SECTION APPLY		
	Proper Shipping Name & UN/NA Identification Number 49 CFR 172.301(a)		
	(Technical Name or EPA ID Number) 172.301(b)		
	Special Permit Number "DOT-SP 14267" 172.301(c)		
	Consignee Name and Address, if not Exclusive Use or Dedicated Truck 172.301(d)		
	"NON-ODORIZED" marking on cylinders of non-odorized LPG 172.301(f)		
	Package Orientation Arrows, for inner packages containing liquids placed on two opposing sides 172.312(a)(2)		
	"Inside Containers Comply with Prescribed Specifications" for gas cylinders (aerosols) 173.306(a)(3)(vi)		
	"Inhalation Hazard", unless these words appear on the label or placard. 172.313(a)		
	"Poison", non-bulk plastic outer packaging. 172.313(b)		
	Apply the word "Overpack" and all marking and labeling from inner containers to outer container 173.25(a)(2)(4)		
	Ltd Qty- No PSN req. if marked with ID Number within a square-on-point border. 172.315		
	"RQ" if a Hazardous Substance 172.101 Appendix A Table 1 & 2		
	UN Specification marking e.g., 1A2 178.3(a)(1)		
TSCA PCB Marking for concentrations of 50 to 500 ppm 40 CFR 761.40(a)(1) (Note: Additional Vehicle Markings may be required)			
Markings present as indicated on Shipment Summary			
Marking for Bulk Packages	DOES THIS SECTION APPLY		
	Identification Numbers (Orange Panels) for capacities of <1,000 Gal apply on (2) sides; ≥ 1,000 Gal apply on (4) sides. 49 CFR 172.302(a) (NOTE: Portable Tanks, Cargo Tanks, Tank Cars, Multi-Unit Tank Car Tanks, and other Bulk Packagings are prescribed in 172.326, 172.328, 172.330 and 172.331 , respectively)		
	"Inhalation Hazard" applied on two opposing sides unless these words appear on the label or placard 172.313(a)		
	"Marine Pollutant". 172.322(a)(1)(b)(1)(2)(c)(d)		
	Apply the word "Overpack" and all marking and labeling from inner containers to outer container 173.25(a)(2)(4)		
	UN Specification marking, e.g., 1A2		
	TSCA PCB Marking, for actual or source concentrations of 50 to 500 ppm 40 CFR 761.40(a)(1) (Note: Additional Vehicle Markings may be required in 40 CFR 761.40(b))		
	Markings present as indicated on Shipment Summary		
	"RQ" if a Hazardous Substance 49 CFR 172.101 Appendix A Table 1 & 2		
	Additional Marking Requirements for Class 7	DOES THIS SECTION APPLY	
Gross Weight for Radioactive Material Packages >50 kg (110 lb.) 172.310			
Trefoil Symbol for Type B Packages			
"Radioactive-LSA" or "Radioactive-SCO" 173.427(a)(6)(vi)			
"USA DOT 7A Type A"/USA Type IP I, II, III			
DOE/NRC Certificate of Compliance Package ID Number			
"Radioactive" (For Ltd Qty of Class 7, required on outside of inner) 172.421(d)			
Additional Markings required for Class 7 are present as indicated on Shipment Summary			
Labeling	DOES THIS SECTION APPLY		
	Primary Hazard Label e.g.: Class 3 (affixed near PSN if possible). 172.406(a)(ii)		
	Subsidiary Hazard Label (affixed within 6" of the primary hazard label). 172.406(c)		
	Packages or Overpacks with duplicate labels and a volume >64 ft³ must be labeled on two opposing sides 172.400(5); 172.406(e)(1)		
	Freight Container with a volume >64 ft³ but <640 ft³ one each of required label must be affixed on or near the closure 172.406(e)(5)		

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 49 of 65

Attachment G
FIELD INSPECTION REGULATORY COMPLIANCE CHECKLIST
Page 2 of 2

Field Inspection Regulatory Compliance Checklist			
Shipment Number: _____		Control Number: _____	
	CRITERIA	YES	N/A
	Hazardous Waste Label (affixed near PSN) (one label for non-bulk; two labels for bulk)		
	Radioactive Label -- White-I; Yellow-II; Yellow-III affixed on two opposing sides 172.403(f)		
	Fissile Label (affixed on two opposing sides near the Radioactive Label) 172.403(e)(f)		
	For Non-DOE Disposal Facility shipments, waste classification under 10 CFR 61.55 (i.e., Class A Unstable) the classification must be applied		
	"EMPTY" Label 173.428		
	OSHA Regulated Asbestos Warning Label 29 CFR 1910.1001(j)(4)		
	Labels are present as indicated on Shipment Summary		
Separation & Segregation	Separation & Segregation requirements of 49 CFR 177.848 are satisfied		
Placarding	DOES THIS SECTION APPLY		
49 CFR 172.500 49 CFR 172.504 49 CFR 172.512(a) 49 CFR 172.514(a)(c) 49 CFR 172.516(a)	Dangerous (Non-bulk packages containing 2 or more categories of hazardous materials requiring different placards specified in Table 2. If there is ≥ 1000 kg [2205 lbs.] aggregate gross weight of a category of material, the placard for that category of material must be applied)		
	Non-Bulk (4) Placards on Transport Vehicle		
	Bulk <640ft ³ (non-freight container) <ul style="list-style-type: none"> Package – (2) Placards OR (2) Labels Transport Vehicle – (4) Placards None Required if package placards are visible from all 4 sides		
	Bulk ≥640ft ³ <ul style="list-style-type: none"> Package – (4) Placards Transport Vehicle – (4) Placards None Required if package placards are visible from all 4 sides		
	Placards are present as indicated on Shipment Summary		
	Placards are present as indicated on Shipment Summary		
Additional Vehicle Markings	Identification Number marking on transport vehicle or freight container containing a single hazardous material in non-bulk packages (Aggregate gross weight of 4,000 kg [8,820 lb.] or more) 172.301(3)(ii)		
	Identification Number marking on transport vehicle or freight container containing non-bulk packages of PIH Zone A or B 172.313(c)(2)		
	Vehicle Markings required when PCBs contain more than 45 kg (99.4 lbs) of liquid at concentrations of ≥ 50 ppm OR with one or more transformers 40 CFR 761.40(b)		
Driver Information	Verified Valid CDL License, HAZMAT Endorsement		
	For oil shipments, verified Tanker Endorsement and verified the driver has a communication device in their vehicle		
	SF-52 Federal Employee Identification, if applicable		
	Driver Training: DOT-SP 14267		
Trailer/Truck Checklists	Received the completed Truck/Trailer Checklists from the Field T.S.		
DOE/NRC 741 Form	Prior to release of shipment, confirm 741 has been reviewed and approved by NMC&A		
Inbound/Outbound Radiological Surveys	Prior to release of shipment, confirm inbound and outbound radiological surveys have been received and are within limits		
PRE-INSPECTION Print/Sign		Date	
OUTBOUND INSPECTION Print/Sign		Date	

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 51 of 65

Attachment I
FLUOR-BWXT PORTSMOUTH LLC FOR THE USDOE INSTRUCTIONS REGARDING
ENROUTE SECURITY AND CONTROLS FOR SHIPMENTS CONSIGNED AS EXCLUSIVE
USE (SOLE USE OR FULL LOAD)



FLUOR-BWXT PORTSMOUTH LLC FOR THE USDOE
INSTRUCTIONS REGARDING ENROUTE SECURITY AND CONTROLS FOR
SHIPMENTS CONSIGNED AS EXCLUSIVE USE (SOLE USE OR FULL LOAD)

Transporter: _____ Truck/Trailer No.: _____
Print Name: _____ Date: _____
Signature: _____

These written instructions are provided to the carrier named on the shipping papers for the above referenced shipment and are to be maintained with said shipping papers. It is the carrier's responsibility to ensure that these instructions are conveyed to its driver(s) and administrative personnel, as appropriate, for the duration of the movement to final destination.

1. Maintain exclusive use of this vehicle for the duration of the movement. No other freight is to be loaded with this shipment except as directed by the consignor.
2. All loading or unloading of freight in this shipment shall only be done, or as directed, by the consignor or consignee.
3. The carrier is to move this shipment without delay, but in accordance with the legal statutes of transit jurisdictions.
4. Stops enroute with tractor unmanned are to be minimized to the extent practical and limited to accepted safe haven areas (i.e., another DOE site, military base, locked area, or guarded area). Shipper must approve any stops in excess of ninety-six hours and unmanned tractor stops while enroute.
5. The carrier is to take positive steps enroute and during necessary stops to segregate this shipment from other freight, buildings, and personnel so as to minimize potential exposures.
6. The carrier is to make periodic inspection of equipment, load, and placarding at appropriate intervals enroute to ensure maintenance of shipment safety controls.
7. To the maximum extent practical, the carrier, when movement is by highway, is to use interstate or limited access divided highways and avoid high density urban areas, especially where circumferential interstate highways are available to allow avoidance of travel through the highest populated portion of an urban area.
8. All drivers are required to provide for verification, and maintain at all times, a valid drivers' license and medical card that meets the requirements of Federal Motor Carrier, Table 2, 383.51 (7).

ADDITIONAL ENROUTE SECURITY CONTROLS AND SPECIAL HANDLING INSTRUCTIONS

1. If provided, by highway, the carrier's driver(s) is to maintain visual contact with escort(s) and obey all traffic signs.
2. Any required radiation surveys enroute will be made only with acceptable monitoring devices and the consignor or consignee will be notified that such monitoring has been done and by whom. Any radiation surveys taken at destination by authorized personnel of the consignee will be provided to the carrier on request or the carrier will be notified if there are contamination levels that would warrant taking the conveyance out of service.
3. Each motor vehicle used for transporting Radioactive Materials under Exclusive Use conditions in accordance with 173.427 or 173.443(c) shall be surveyed with radiation detection instruments after each use. The carrier should ensure the vehicle has met the Department of Transportation (DOT) Return to Service Limits in 49 CFR 177.443(c).
4. The carrier is to take the appropriate emergency response actions should an accident or spillage occur while en-route. The carrier will make notification as indicated on accompanying shipping papers in the event of a delay, accident, or other emergency enroute.
5. In the event that this is a Highway Route Controlled Shipment per the Shipping Paper, the carrier is to comply with the requirements of DOT 49 CFR 397.101(b).

TITLE:	FBP-WM-PRO-00044
	REV. NO. 24
	Page 52 of 65

Attachment J
FLUOR-BWXT PORTSMOUTH LLC (FBP) NEVADA NATIONAL SECURITY SITE (NNSS)
CARRIER'S DRIVER PACKET EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE
SHIPMENT
Page 1 of 8



Fluor-BWXT Portsmouth, LLC (FBP)
Nevada National Security Site (NNSS) Carrier's Driver Packet
EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE SHIPMENT

IN THE EVENT OF AN INCIDENT
CALL THE PORTSMOUTH SITE PLANT SHIFT SUPERINTENDENT
(740) 897-3025

- A. The shipping documents attached to this form contain the information prescribed by DOT regulations. These documents must accompany all drivers of this shipment. Accessibility of these documents must be in accordance with 49 CFR 177.817.
- B. Radioactive Material:
1. Exclusive Use Shipment - Under the "Exclusive Use Provisions", you will conform to the requirements specified in the Exclusive Use instructions provided as [Exhibit 1](#).
 2. Dedicated Service Shipments – If the shipment does not meet the "Exclusive Use Provisions", the shipment shall be made using Department of Energy (DOE)/Nevada National Security Site (NNSS) dedicated service. DOE/NNSS dedicated service is defined as transport, solely of waste cargo destined for disposition at the NNSS.
- C. You also must be aware of the following:
1. Vehicle placarding, if necessary, is provided and affixed by the shipper. The driver is responsible for replacing any placards that are lost or damaged during transit.
 2. Certain shipments of radioactive materials cannot be transported through or on certain highway facilities; i.e., tunnels and bridges.
 3. In the event of an accident or emergency, the carrier is to take the appropriate emergency response actions. The carrier will also make notification as indicated on accompanying shipping papers in the event of a delay, accident, or other emergency en route. Also, see special instructions on [Exhibit 3](#).
 4. Additional security precautions may be in effect. See [Exhibit 4](#).
 5. Specific route instructions are provided as [Exhibit 5](#). If deviations are necessary due to re-routing by law enforcement, road construction or weather-related route changes the Plant Site Superintendent (PSS) **(740) 897-3025** must be called immediately to have the route deviation approved.
 6. Routing to the NNSS is required to avoid specific areas and features as indicated in [Exhibit 6](#).
 7. Access processes, prohibited items, and additional NNSS requirements apply, as detailed in [Exhibit 7](#).
- D. Driver Qualification. You have been informed that the Federal Motor Carrier Regulations (Department of Transportation [DOT]) require specific driver qualifications, if not accepted, for carriers of hazardous materials. All drivers are required to provide for verification, and maintain at all times, a valid drivers' license and medical card that meets the requirements of Federal Motor Carrier, Table 2, 383.51, 7.

Print Name _____	Carrier _____	POL No. _____
Signature _____	Truck No. _____	Date of Shipment _____
Acknowledgement of receipt and acceptance of shipment requirements and route restrictions.	Trailer No. _____	

Note: You are responsible for calling the Portsmouth Site PSS at **(740) 897-3025** in the event of any changes to estimated time/date of arrival (estimated time of arrival [ETA]) at the NNSS so that updates can be made to NNSS security and operations personnel. **This includes the day of delivery!**

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 53 of 65

Attachment J
FLUOR-BWXT PORTSMOUTH LLC (FBP) NEVADA NATIONAL SECURITY SITE (NNSS)
CARRIER'S DRIVER PACKET EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE
SHIPMENT
Page 2 of 8



Fluor-BWXT Portsmouth, LLC (FBP)
Nevada National Security Site (NNSS) Carrier's Driver Packet
EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE SHIPMENT

EXHIBIT 1 – EXCLUSIVE USE INSTRUCTIONS

RESPONSIBILITY

These written instructions are provided to the carrier named on the shipping papers for the above referenced shipment, and are to be maintained with said shipping papers. It is the carrier's responsibility to ensure that these instructions are conveyed to its driver(s) and administrative personnel as appropriate, for the duration of transportation to final destination.

INSTRUCTIONS

1. Maintain exclusive use of this vehicle for the duration of transportation. No other freight is to be loaded with this shipment, except as directed by the consignor.
2. All loading or unloading of freight in this shipment shall only be done, or as directed by the consignor or consignee.
3. The carrier is to move this shipment without delay, in accordance with the legal statutes of transit jurisdictions.
4. Stops en route with tractor unmanned are to be minimized to the extent practical and limited to accepted safe haven areas (i.e., another DOE site, military base, locked area, or guarded area). Fluor-BWXT Portsmouth LLC (FBP) must approve stops in excess of ninety-six hours and unmanned tractor stops while en route.
5. The carrier is to take positive steps en route and during necessary stops to segregate this shipment from other freight, buildings, and personnel, so as to minimize potential exposures.
6. To the maximum extent practical, the carrier, when movement is by highway, is to use interstate or limited access divided highways and avoid high density urban areas, especially where circumferential interstate highways are available to allow avoidance of travel through the highest populated portion of an urban area.
7. The carrier is to make periodic inspection of equipment, load, and placarding at appropriate intervals en route to ensure maintenance of shipment safety controls.

SPECIAL INSTRUCTIONS

1. If provided, the carrier's driver(s) is/are to maintain visual contact with escort(s) and obey all traffic signs.
2. Radiation surveys en route will be made only with acceptable monitoring devices and the consignor or consignee will be notified that such monitoring has been done and by whom. Radiation surveys taken at destination by authorized personnel of the consignee will be provided to the carrier on request or the carrier will be notified if there are contamination levels that would warrant taking the conveyance out of service.
3. Each motor vehicle used for Exclusive Use transporting of Radioactive Materials shall be surveyed with radiation detection instruments after each use in accordance with 49 CFR 173.427 or 49 CFR 173.443(c). The carrier shall ensure vehicle meets the Return to Service Limits of 49 CFR 173.443(c).
4. If the shipment is Highway Route Controlled, the carrier is to comply with the DOT 397.101(b) requirements.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 54 of 65

Attachment J
FLUOR-BWXT PORTSMOUTH LLC (FBP) NEVADA NATIONAL SECURITY SITE (NNSS)
CARRIER'S DRIVER PACKET EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE
SHIPMENT
Page 3 of 8



Fluor-BWXT Portsmouth, LLC (FBP)
Nevada National Security Site (NNSS) Carrier's Driver Packet
EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE SHIPMENT

EXHIBIT 2 – DEDICATED SERVICE INSTRUCTIONS

RESPONSIBILITY

These written instructions are provided to the carrier named on the shipping papers for the above referenced shipment, and are to be maintained with said shipping papers. It is the carrier's responsibility to ensure that these instructions are conveyed to its driver(s) and administrative personnel as appropriate, for the duration of transportation to final destination.

INSTRUCTIONS

1. Maintain dedicated use of this vehicle for the duration of transportation. No other freight is to be loaded with this shipment, except as directed by the consignor.
2. The carrier is to take positive steps en route and during necessary stops to segregate this shipment from other freight, buildings, and personnel, so as to minimize potential exposures.
3. To the maximum extent practical, the carrier, when movement is by highway, is to use interstate or limited access divided highways and avoid high density urban areas, especially where circumferential interstate highways are available to allow avoidance of travel through the highest populated portion of an urban area.
4. The carrier is to make periodic inspection of equipment, load, and placarding at appropriate intervals en route to ensure maintenance of shipment safety controls.

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 55 of 65

Attachment J
FLUOR-BWXT PORTSMOUTH LLC (FBP) NEVADA NATIONAL SECURITY SITE (NNSS)
CARRIER'S DRIVER PACKET EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE
SHIPMENT
Page 4 of 8



Fluor-BWXT Portsmouth, LLC (FBP)
Nevada National Security Site (NNSS) Carrier's Driver Packet
EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE SHIPMENT

EXHIBIT 3 – EMERGENCY INSTRUCTIONS

1. Immediately notify the Portsmouth Site PSS at **(740) 897-3025** any time of day or night (office manned 24 hours a day/7 days a week).
2. Contact State Police and/or local law enforcement agency for assistance.
3. DO NOT OPEN OR UNCOVER CONTAINER(S).
4. Evacuate personnel to a safe distance upwind of the emergency site and wait arrival of emergency responders.
5. Isolate the area from traffic and spectators.
6. Sealed containers, if lying on roadway, may be moved to the side of the road or right of way. DO NOT ATTEMPT TO MOVE AND/OR REPACKAGE MATERIAL FROM ANY OPEN CONTAINER UNTIL AUTHORIZED TO DO SO BY PROPER AUTHORITIES.
7. Obtain names and addresses of all persons involved. Write down a description, sequence, and time of all aspects of the emergency situation.
8. Make no statements to the press, news media, or the general public, unless authorized by the Shipper or other proper authorities.

TITLE:	FBP-WM-PRO-00044
	REV. NO. 24
	Page 56 of 65

Attachment J
FLUOR-BWXT PORTSMOUTH LLC (FBP) NEVADA NATIONAL SECURITY SITE (NNSS)
CARRIER'S DRIVER PACKET EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE
SHIPMENT
Page 5 of 8



Fluor-BWXT Portsmouth, LLC (FBP)
Nevada National Security Site (NNSS) Carrier's Driver Packet
EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE SHIPMENT

EXHIBIT 4 – EN ROUTE SECURITY MEASURES

As a transporter of government-owned material, you have an important job with heavy responsibility. You transport materials all over the United States, on our highways, through our communities, and past our churches and schools. Many of these materials are hazardous and have the potential of being used as a weapon of mass destruction. You must be extra vigilant and aware to keep our nation safe and secure.

Many precautions can be implemented prior to transport of the materials. They are the same precautions you have been taking for years, but now more than ever, these precautions should be considered mandatory:

- Conduct a pre-trip vehicle inspection.
- Know what you are hauling.
- Keep easy-access emergency numbers.
- Keep the Emergency Response Guidebook in the cab.
- Make sure placards and markings match the load you are hauling.
- Be sure the shipping papers match your load.

You may be faced with dangers and obstacles while transporting the shipment to its final destination. Caution and awareness is needed every step of the way. Protect your vehicle and its load while underway:

- Follow the designated route. If a deviation is necessary, notify dispatch immediately.
- Be aware of surroundings at all times.
- Avoid highly populated areas whenever possible.
- Ensure that all hazardous materials are delivered expeditiously.
- Always lock your vehicle when stopped or unattended.
- Avoid tunnels and bridges.
- Be aware of other vehicles at all times. Is anyone following you?
- Be aware of suspicious drivers.
- Never remove placards or markings.
- Cooperate with enforcement officials by following the commands/instructions of first responder/law enforcement, including requests to remove Tamper-Indicating Devices (TIDs) or locks on trailers.
- Do not answer any stranger's questions about your load or destination.

Remember that drivers and shippers are partners. Cooperate with facility employees to ensure safe deliveries. Do your part to keep facilities secure:

- Be cautious and alert at the delivery site.
- Follow posted speed limit signs.
- Be aware of any suspicious activities.

Security Depends on You!

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 57 of 65

Attachment J
FLUOR-BWXT PORTSMOUTH LLC (FBP) NEVADA NATIONAL SECURITY SITE (NNSS)
CARRIER'S DRIVER PACKET EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE
SHIPMENT
Page 6 of 8



Fluor-BWXT Portsmouth, LLC (FBP)
Nevada National Security Site (NNSS) Carrier's Driver Packet
EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE SHIPMENT

EXHIBIT 5 – ROUTE

SOUTHERN ROUTE

Route from Portsmouth (PORTS) to the Nevada National Security Site (NNSS)

Exit the PORTS Site via the West Access Road/23 or the North Access Road/Shyville Road to Ohio 32 West.

Follow Ohio 32 West for approximately 77 miles to I-275 South near Cincinnati, OH.

Follow I-275 for approximately 22 miles around the south side of Cincinnati to I-71/I-75 South.

Follow I-71 South for approximately 79 miles to I-265 around Louisville, KY.

Follow I-265 East/South for approximately 25 miles to I-65 South.

Follow I-65 South for approximately 152 miles to TN-155 W/Briley Pkwy West in Nashville, TN.

Follow TN-155 W/Briley Pkwy for approximately 12 miles to I-40 West.

Follow I-40 West for approximately 657 miles to I-240 West around Oklahoma City, OK.

Follow I-240 West for approximately 21 miles back to I-40 West.

Follow I-40 West for approximately 1012 miles to US-93 North.

Follow US-93 North for approximately 4 miles to AZ-68 West.

Follow AZ-68 West for approximately 27 miles to NV-163 West.

Follow NV-163 West for approximately 19 miles to US-95 North.

Follow US-95 North for approximately 19 miles to NV-164 West.

Follow NV-164 West for approximately 32 miles to I-15 North.

Follow I-15 North for approximately 43 miles to NV-160 North.

Follow NV-160 North for approximately 80 miles to US-95 South.

Follow US-95 South for approximately 8 miles to the entrance of the NNSS and the Mercury Highway.

Proceed to NNSS Main Gate to badging and instructions for transporting waste to the disposal areas.

Revised 03/13/2016

Mike Hall
PORTS NNSS Waste Certification Official

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 58 of 65

Attachment J
FLUOR-BWXT PORTSMOUTH LLC (FBP) NEVADA NATIONAL SECURITY SITE (NNSS)
CARRIER'S DRIVER PACKET EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE
SHIPMENT
Page 7 of 8



Fluor-BWXT Portsmouth, LLC (FBP)
Nevada National Security Site (NNSS) Carrier's Driver Packet
EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE SHIPMENT

EXHIBIT 6 – NNSS ROUTE RESTRICTIONS

ROUTE RESTRICTIONS

Low-level radioactive waste under transport to the NNSS is required to be routed around certain potential hazards and urban areas as identified below. Failure to conform to these requirements will result in loss of future opportunities to transport waste to the NNSS:

- Transport over Hoover Dam By-Pass Bridge (US 93) is NOT permitted.
- Transport over Davis Dam (AZ-68, NV-163) is NOT permitted.
- Transport through the Las Vegas metropolitan area is NOT permitted.
- Heavily populated/congested areas in the State of Nevada must be avoided.
- The carrier is to make minimum stops in Nye County, State of Nevada. Periodic re-examinations of the commercial motor vehicle's cargo and its load-securing devices required by the Federal Motor Carrier Safety Regulations and/or the Carrier shall be conducted PRIOR to entering Nye County, State of Nevada in order to minimize stops in Nye County.
- Avoid transport on California State Route 127 during the dates identified on the Waste Generator Inbound Shipment Calendar provided on the SharePoint site. Radioactive Waste Acceptance Program (RWAP) will provide Alerts listing "Black-Out Dates" as they become available.

NOTE *High flash flood risk on SR-127 from June through September; Amargosa River crosses SR-127 at four different places; flash flooding may close roads for a day or a severe storm may close roads for extended periods.*

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 59 of 65

Attachment J
FLUOR-BWXT PORTSMOUTH LLC (FBP) NEVADA NATIONAL SECURITY SITE (NNSS)
CARRIER'S DRIVER PACKET EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE
SHIPMENT
Page 8 of 8



Fluor-BWXT Portsmouth, LLC (FBP)
Nevada National Security Site (NNSS) Carrier's Driver Packet
EXCLUSIVE USE SHIPMENT OR DEDICATED SERVICE SHIPMENT

EXHIBIT 7 – ACCESSING THE NNSS

The following information is provided to prepare the carrier for the process that will be employed by the consignee, at the Nevada Test Site:

- Drivers without an HSPD-12 badge or an NNSS-issued site badge shall stop at the NNSS Main Gate Badge Office. Badged drivers without a copy of HAZTRAK entry confirmation shall stop at the NNSS Main Gate Badge Office. Driver with an HSPD-12 or an NNSS site badge and a HAZTRAK entry confirmation may proceed directly to the NNSS Main Gate for entry.
- The badging area is located at NNSS Main Gate on the main entrance road. The NNSS is a secure U.S. Government reservation with restrictions on persons and items allowed to enter.

NOTE

Privately owned Global Positioning System (GPS) must be turned off. All vehicles are subject to search.

- Hours of operation for receiving waste at the NNSS Radioactive Waste Management Site (RWMS) are 0700 to 1400 hours Pacific Time, Mondays through Thursdays (except Holidays).
- If a shipment arrives after 1400 hours, NNSS no longer permits on-site staging of loaded trailers for security reasons. Loads must be staged elsewhere as permitted under DOT and applicable DOE requirements. Classified loads may require additional consideration.
- Shipment off-loading may be subject to delays at any time, due to NNSS operational schedules.
- NNSS requires that carriers complete a Drivers Route and Shipment Information Questionnaire for each truck shipment to the NNSS. The survey includes documentation of the actual route utilized to access the NNSS. The form should be filled out prior to departing from the NNSS and left with operations personnel at the disposal site. An original or high quality copy is requested, as the map portion of the form is difficult to read otherwise. A blank form is attached to this packet to illustrate what will be expected of you at the NNSS.
- The WG or driver shall obtain approval from the RWMC Waste Operations Supervisor to stage loaded inbound trailers without power units outside the NNSS main gate, at the Area 3 RWMS, or at the Area 5 RWMC, prior to delivery. The driver shall obtain approval from the RWMC Waste Operations Supervisor prior to staging empty trailers inside and/or outside the NNSS Main Gate.
- The driver shall not remove trailers and/or other equipment until cleared for release.
- Placards on intermodal containers shall be removed by the transporter after waste is unloaded at the NNSS and before the conveyance leaves the site.

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 60 of 65

Attachment K
DRIVERS ROUTE TO ENERGY*SOLUTIONS*, CLIVE UT



Drivers Route to Energy*Solutions*, Clive UT

Exit the PORTS Site on Truck Access Road at the West side of the Site.
Continue West on Principle Road to the security post then exit Via: US-23 Northbound.
Proceed a short distance on US-23 to Ohio 32 Westbound.
Follow Ohio 32 westbound to I-275 southbound near Cincinnati, OH.
Follow I-275 around the south side of Cincinnati to I-71/75 southbound.
Follow I-71 southbound to I-265 around Louisville, KY.
Follow I-265 East/South to I-65 Southbound.
Follow I-65 Southbound to I-40 Westbound near Nashville, TN.
Follow I-40 Westbound to Gallup, NM.
At Gallup, NM, turn North to US-491 North toward Shiprock, NM.
Follow US-491 North to Shiprock, NM to US 64 Westbound
Follow US-64 West continuing into Arizona accessing US 160 Westbound.
Follow US-160 West until you read US 191 North into Utah toward Blanding, UT.
Follow U-191 North to I-70 Westbound near Brendel, UT.
Follow I-70 West and Merge Northbound onto US-191/US-6 West (Exit 157) toward Price, UT.
** See Special Note – for Inclement Weather and/or Canyon Conditions
Continue traveling North Merging onto US-6 West/ and US-89 toward Spanish Fork, UT.
Follow US 6/89 west until Merging onto I -15 North to I-80 West near Salt Lake City UT.
Follow I-80 West to Clive, Utah – Energy Solutions.

** In Bad Weather it is acceptable to alternate the route at Westbound I-70 near Elgin, UT. (Exit 156)
Continue West on I-70 toward Salina, UT Merging to US-50 North to I-15 near Scipio, UT.
Follow I-15 North to I-80 near Salt Lake City, UT turning West.
Follow I-80 West to Clive, Utah – Energy*Solutions*.

X _____ X _____ X _____
Printed Drivers Name Drivers Signature Date

****Posted HazMat route/routing given for any State, City, or County, Parish, Providence may supersede routes that are proposed or supplied by FBP. If routing is different, then contact FBP Transportation with routing change. ****

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 61 of 65

**Attachment L
NOTICE TO DRIVER**



Notice to Driver

Shipment Number: _____

In the event of any of the following situations or incidences, please immediately contact the Plant Shift Superintendent (PSS) at **(740) 897-3025**.

Examples of issues that would require a call to the PSS include, but are not limited to:

- The anticipated delay in arrival time at the NNSS Gate 100 after 1200 Pacific Time on scheduled day of arrival or later. Any delayed arrival of more than 4 hours to any Treatment, Storage, Disposal, or Recycling Facility (TSDRF).
- Vehicle or conveyance issues (breakdowns, accidents, etc.) that cause delay in transport.
- The shipment is involved in any accident (DOT or non-DOE recordable), minor or major, including accidents that incur damage to the truck, trailer, or personal injury.
- Driver receives a moving violation issued by law enforcement or any stop by law enforcement.
- Any breach or suspected breach of package(s) or conveyance during transit.
- The detection or suspect detection of radioactive contamination on the package(s) or conveyance during transit.
- A significant load shift.
- The shipment deviates from the agreed-upon route while traveling in Nevada (by emergency personnel, missed exit, etc.). a concerted effort to return to the preferred route as soon as possible will be made.

Please ensure the NNSS Driver's Route/Shipment Information Form is complete and accurate at the destination.

Acknowledgement of above requirements:

Printed Name: Driver 1: _____ Driver 2: _____

Signature : Driver 1: _____ Driver 2: _____

Date of Shipment: _____

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 62 of 65

Attachment M
DEDICATED TRUCK INSTRUCTIONS
Page 1 of 3



DEDICATED TRUCK INSTRUCTIONS

Shipment No. _____

IN THE EVENT OF AN INCIDENT
CALL THE PORTSMOUTH SITE PLANT SHIFT SUPERINTENDENT
(740) 897-3025

- A. The shipping documents accompanying this form contain the information prescribed by DOT regulations. These documents must accompany all drivers of this shipment. Accessibility of these documents must be in accordance with 49 CFR 177.817.
1. Maintain dedicated use of this vehicle for the duration of the movement. No other freight is to be loaded with this shipment except as directed by the consignor.
 2. All loading and unloading of freight in this shipment shall only be done as directed by the consignor or consignee.
 3. The carrier is to move this shipment without delay, but in accordance with the legal statutes of transit jurisdictions.
 4. The carrier is to make periodic inspections of equipment, load, and placarding at appropriate intervals enroute to ensure maintenance of shipment safety controls.
 5. The carrier is to take appropriate emergency response actions should an accident or spillage occur enroute. The carrier will make notification as indicated on accompanying shipping paper in the event of a delay, accident, or other emergency enroute. See special instructions in Exhibit L.
- B. Driver Qualification. You have been informed that the Federal Motor Carrier Regulations (DOT) require specific driver qualifications, if not excepted, for carriers of hazardous materials.

Signature: _____	Carrier: _____ Truck/ Trailer No.: _____	Date of: _____ Shipment
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Note: You are responsible for calling the Portsmouth Site Plant Shift Superintendent at (740) 897-3025 in the event of any changes to estimated time/date of arrival (ETA). **This includes the day of delivery!**

TITLE: Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
	REV. NO. 24
	Page 63 of 65

Appendix M
DEDICATED TRUCK INSTRUCTIONS
Page 2 of 3



DEDICATED TRUCK INSPECTIONS
EXHIBIT 1 – EMERGENCY INSTRUCTIONS

1. Immediately notify the Portsmouth Site Plant Shift Superintendent at **(740) 897-3025** any time of day or night (office manned 24 hours a day/7 days a week).
2. Contact State Police and/or local law enforcement agency for assistance.
3. DO NOT OPEN OR UNCOVER CONTAINER(S).
4. Evacuate personnel to a safe distance upwind of the emergency site and wait arrival of emergency responders.
5. Isolate the area from traffic and spectators.
6. Sealed containers, if lying on roadway, may be moved to the side of the road or right of way. DO NOT ATTEMPT TO MOVE AND/OR REPACKAGE MATERIAL FROM ANY OPEN CONTAINER UNTIL AUTHORIZED TO DO SO BY PROPER AUTHORITIES.
7. Obtain names and addresses of all persons involved. Write down a description, sequence, and time of all aspects of the emergency situation.
8. Make no statements to the press, news media, or the general public, unless authorized by the Shipper or other proper authorities.

TITLE:	FBP-WM-PRO-00044
	REV. NO. 24
	Page 64 of 65

Preparing Off-Site Shipments of Hazardous Materials

Appendix M DEDICATED TRUCK INSTRUCTIONS Page 3 of 3



DEDICATED TRUCK INSPECTIONS EXHIBIT 2 – ENROUTE SECURITY MEASURES

As a transporter of government-owned material, you have an important job with heavy responsibility. You transport materials all over the United States, on our highways, through our communities, and past our churches and schools. Many of these materials are hazardous and have the potential of being used as a weapon of mass destruction. You must be extra vigilant and aware to keep our nation safe and secure.

Many precautions can be implemented prior to transport of the materials. They are the same precautions you have been taking for years, but now more than ever, these precautions should be considered mandatory:

- Conduct a pre-trip vehicle inspection.
- Know what you are hauling and be sure the shipping papers match your load.
- Keep easy-access emergency numbers.
- Keep the Emergency Response Guidebook in the cab.
- Make sure placards and markings match the load you are hauling.
- Stops en-route are to be minimized to the extent practical and limited to accepted safe haven areas.

You may be faced with dangers and obstacles while transporting the shipment to its final destination. Caution and awareness is needed every step of the way. Protect your vehicle and its load while underway:

- Follow the designated route. If a deviation is necessary, notify dispatch immediately.
- Be aware of surroundings at all times.
- Avoid highly populated areas whenever possible.
- Ensure that all hazardous materials are delivered expeditiously.
- Always lock your vehicle when stopped or unattended.
- Avoid tunnels and bridges.
- Be aware of other vehicles at all times. Be aware of suspicious drivers. Is anyone following you?
- Drivers shall not pick up hitchhikers or allow any unauthorized personnel in the truck cab.
- Never remove placards or markings.
- Cooperate with enforcement officials.
- Drivers (and other knowledgeable employees) shall not discuss any details about their load or pick-up points and destinations with unauthorized personnel, such as over citizen band (CB) radio or at truck stops.

Remember that drivers and shippers are partners. Cooperate with facility employees to ensure safe deliveries. Do your part to keep facilities secure:

- Be cautious and alert at the delivery site.
- Follow posted speed limit signs.
- Be aware of any suspicious activities.

Security Depends on You!

TITLE:	Preparing Off-Site Shipments of Hazardous Materials	FBP-WM-PRO-00044
		REV. NO. 24
		Page 65 of 65

**Attachment N
PROHIBITED AND CONTROLLED ARTICLES**



PROHIBITED AND CONTROLLED ARTICLES

Prohibited Articles
<p align="center">THE FOLLOWING ARTICLES ARE NOT PERMITTED ON FEDERAL PROPERTY WITHOUT PROPER AUTHORIZATION.</p> <ul style="list-style-type: none"> ➤ Explosives (includes ammunition); ➤ Dangerous weapons [18 United States Code(U.S.C.) §930 "dangerous weapon" means a weapon, device, instrument, material, animate or inanimate that is used for, or is readily capable of, causing death or serious bodily injury, except that such term does not include a pocket knife with a blade of less than 2 ½ inches in length]; ➤ Instruments or materials likely to produce substantial injury to persons or damage to property (e.g. pepper spray, etc.); ➤ Controlled substances (e.g., illegal drugs and associated paraphernalia, not personal prescription medicine); ➤ Use of alcoholic beverages; or ➤ Any other items prohibited by law. <p>PERSONNEL, VEHICLES, HAND-CARRIED ITEMS, AND PACKAGES ENTERING OR EXITING THE AREA ARE SUBJECT TO INSPECTION TO DETER AND/OR DETECT UNAUTHORIZED INTRODUCTION OF PROHIBITED ARTICLES AND REMOVAL OF GOVERNMENT ASSETS.</p>

Controlled Articles
<p align="center">CONTROLLED ARTICLES ARE NOT PERMITTED IN THE LIMITED AREA WITHOUT APPROPRIATE AUTHORIZATION.</p> <p>Examples include:</p> <ul style="list-style-type: none"> ➤ Personally-owned electronic devices capable of audio or visual recording and/or cellular capabilities or transmission; ➤ Computers/Laptops; ➤ Cellular phones; ➤ Cameras; and/or ➤ Other items as identified by Security

Sign your name that you understand the above Prohibited Articles and Controlled Articles are not permitted in the LIMITED AREA, and must be declared when you sign this form and before entering the PROPERTY PROTECTION AREA.

Print _____ Sign _____ Date _____