DOE/NV/03624--2339

SECOND QUARTER ROUTING REPORT FISCAL YEAR 2026

Waste Shipments to the Nevada National Security Site, Radioactive Waste Management Complex, Radioactive Waste Management Site

This report was prepared for:
U.S. Department of Energy,
Office of Environmental Management
Nevada Program

By:
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DISCLAIMER

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ACRONYMS AND ABBREVIATIONS

CFR	Code of Federal Regulations
CNR	Classified Non-Radioactive
CNRH	Classified Non-Radioactive Hazardous
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
EM	Environmental Management
ft^3	Cubic Foot (Feet)
FY	Fiscal Year
LLW	Low-Level Radioactive Waste
MCEP	Motor Carrier Evaluation Program
MLLW	Mixed Low-Level Radioactive Waste
MSTS	Mission Support and Test Services, LLC
NNSA/NFO	U.S. Department of Energy, National Nuclear Security Administration Nevada Field Office
NNSS	Nevada National Security Site
NNSSWAC	Nevada National Security Site Waste Acceptance Criteria
RWAP	Radioactive Waste Acceptance Program
RWMC	Radioactive Waste Management Complex
SWEIS	Sitewide Environmental Impact Statement

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1.0 INTRODUCTION

This report satisfies the U.S. Department of Energy (DOE) commitment to prepare a quarterly summary of waste shipments to the Nevada National Security Site (NNSS)*. This report summarizes the second quarter of fiscal year (FY) 2026 and serves as quarterly report for the following types of shipments:

- Low-Level Radioactive Waste (LLW)
- Mixed Low-Level Radioactive Waste (MLLW)
- Classified Non-Radioactive (CNR) Waste
- Classified Non-Radioactive Hazardous (CNRH) Waste

Tabular summaries are provided that include the following:

- Number and external volume of LLW, MLLW, and CNR/CNRH waste shipments
- Waste generators for LLW, MLLW, and CNR/CNRH waste shipments to and on the NNSS
- Carriers for LLW, MLLW, and CNR/CNRH waste shipments to and on the NNSS
- Waste generator shipments by quarter
- Shipment routes used by carriers
- Incident and accident data applicable to LLW, MLLW, and CNR/CNRH waste shipments

Volume reports using the Low-Level Waste Information System showing cubic feet (ft^3) of waste received may vary slightly due to rounding conventions for conversions from cubic meters to ft^3. The displayed waste volume summations may vary between tables due to rounding the fractions to whole numbers.

Commercial motor carriers transporting waste to the NNSS must be identified on the DOE Motor Carrier Evaluation Program (MCEP) Evaluated Carrier List. DOE contractors who transport waste to the NNSS as private motor carriers have their motor carrier operations evaluated by DOE as part of the Transportation Safety and Operations Compliance Assurance Program. In addition, periodic self-assessments are required per DOE Order 460.2B, *Departmental Materials Transportation and Packaging Management* and the EM Nevada Program NNSS Radioactive Waste Acceptance Program (RWAP) routinely reviews motor carrier safety and performance to verify compliance with NNSS Waste Acceptance Criteria (NNSSWAC). Because commercial motor carriers and DOE contractors are commercial entities, their operations are also subject to periodic facility and over-the-road inspection by the U.S. Department of Transportation (DOT).

*The following is provided as an explanation on the drivers for this report. In response to comments on the 1996 SWEIS, the Department committed to "Prepare an annual report that includes, at a minimum, identification of carriers, sources and destination of each shipment, the number and volume of shipments, highway and rail routes used, incidents/accidents data, and an evaluation of each shipping campaign." Additionally, in the 2013 Sitewide Environmental Impact Statement (SWEIS) (Volume 3, Comment Response Document, Page. 2-376), the Department further committed, "to assist the public in staying informed about waste shipments, the DOE/NNSA NSO publishes an annual transportation report and quarterly routing reports that identify shipment quantities, routes, origins, transporters, and incidents for all LLW/MLLW shipments to the NNSS." To ensure a consistent product the Department determined that the quarterly and annual reports would have the same outline, and that the fourth quarter report would contain a rollup of all data for the fiscal year and thus serve as the annual report.

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2.0 SUMMARY OF WASTE SHIPMENTS AND VOLUMES DISPOSED FOR THE SECOND QUARTER OF FY 2026

Total Waste Received

The total waste received and disposed during the second quarter of FY 2026 was 110,141 ft^3 in 141 shipments. The following sections describe the categories of waste. The three categories will sum to these totals and are also further explained in Tables 4, 5 and 6.

Total LLW and MLLW Received from Offsite Generators

A total of 98,075 ft^3 of LLW and MLLW was disposed at the NNSS by 16 approved radioactive waste generators in 123 shipments. These shipments were transported using eight MCEP-approved motor carriers and government vehicles.

Total LLW Received from Onsite NNSS Generators

A total of 377 ft^3 of LLW was disposed at the NNSS by one approved radioactive waste generator in six shipments. These shipments were transported using government vehicles.

Total CNR/CNRH Waste Received

A total of 11,689 ft^3 CNR/CNRH waste was disposed at the NNSS by four approved radioactive waste generators in 12 shipments. These shipments were transported using two MCEP-approved motor carriers and government vehicles.

Table 1 provides a summary of waste shipments and Table 2 provides a list of approved waste generators that shipped to or on the NNSS in the second quarter of FY 2026.

TABLE 1. NNSS INBOUND SHIPMENT SUMMARY FOR THE SECOND QUARTER OF FY 2026

INBOUND	OFFSITE GENERATORS	NNSS GENERATORS	CARRIERS	SHIPMENTS	VOLUME (ft^3)
LLW/MLLW (offsite)	15	0	8[ac]	123[b]	98,075
LLW/MLLW (onsite)	N/A	1	2[ac]	6	377
CNR/CNRH	3	1	2[c]	12[b]	11,689

[a] Government vehicle was used for two LLNL shipments and six onsite transfers.

[b] The 123 LLW/MLLW and 12 CNR/CNRH shipments include 39 classified shipments (25 LLW, two MLLW, seven CNR and five CNRH).

[c] A combination of commercial motor carriers and government vehicles (listed in Table 3) were used.

TABLE 2. APPROVED GENERATORS SHIPPING WASTE IN THE SECOND QUARTER OF FY 2026

	GENERATOR	GENERATOR CODE
1	DUF6 Conversion Project	DU
2	EnergySolutions	DR
3	Idaho National Laboratory – Advanced Mixed Waste Treatment Plant	AM
4	Idaho National Laboratory – Battelle Energy Alliance	NE
5	Idaho National Laboratory – Idaho Environmental Coalition	IN
6	Lawrence Livermore National Laboratory	LL
7	Los Alamos National Laboratory	LA
8	Mission Support and Test Services, LLC	DP
9	Nuclear Fuel Services	NF
10	Oak Ridge National Laboratory (UT-Battelle)	OL
11	Oak Ridge Reservation (UCOR)	OR
12	Perma-Fix	PF
13	Portsmouth Gaseous Diffusion Plant	PO
14	Sandia National Laboratories	SA
15	West Valley	WV
16	Y-12 National Security Complex	BW

2.1 WASTE TRANSPORTERS (MOTOR CARRIERS)

Motor carriers operate in compliance with Title 49 Code of Federal Regulations (CFR), "Transportation," and are selected by the waste generator. Generators may use multiple motor carriers during the year to facilitate their shipments. Table 3 provides a list of the approved carriers used to transport LLW, MLLW, and CNR/CNRH waste shipments to the NNSS.

TABLE 3. APPROVED MOTOR CARRIERS USED IN THE SECOND QUARTER OF FY 2026

	APPROVED MOTOR CARRIER	CARRIER CODE
1	Bennett Heavy & Specialized, LLC	BHAV
2	CAST Transportation	COLO
3	Hittman Transport Services, Inc.	HITT
4	Interstate Ventures, Inc.	ITSV
5	Reworld Buffalo Trucking	BUFI
6	Specialty Transport, Inc.	MAJH
7	Tri-State Motor Transit Co.	TSMT
8	Turnkey Technical Services, LLC	TNKA
	LLNL Truck (Government Vehicle)*	LLNL
	Government Vehicle*	GT+

* Government vehicles transporting waste shipments are fully compliant with DOT.

2.2 SHIPMENTS

Table 4 provides a summary of all offsite shipments of LLW and MLLW received at the NNSS during the second quarter of FY 2026. Table 5 provides a summary of NNSS onsite transfers of LLW and MLLW in FY 2026. Table 6 provides a summary of all CNR and CNRH waste shipments received at the NNSS in FY 2026. The three tables include a summary for FY 2026 in the "Total" column.

TABLE 4. OFFSITE SHIPMENTS OF LLW AND MLLW TRANSPORTED TO THE NNSS IN FY 2026

OFFSITE INBOUND SHIPMENTS	SHIPMENTS BY QUARTER				
Generator, State(s)	1st	2nd	3rd	4th	Total
Aberdeen Proving Ground, MD	1	**0**			**1**
DUF6 Conversion Project, TN	0	**1**			**1**
Energy Solutions, TN	5	**2**			**7**
Idaho National Laboratory – Advanced Mixed Waste Treatment Project, ID	2	**1**			**3**
Idaho National Laboratory – Battelle Energy Alliance, ID	19	**18**			**37**
Idaho National Laboratory – Idaho Environmental Coalition, ID	4	**4**			**8**
Lawrence Livermore National Laboratory, CA	3	**2**			**5**
Los Alamos National Laboratory, NM	16	**11**			**27**
Nuclear Fuel Services, TN	0	**1**			**1**
Oak Ridge National Laboratory – UT-Battelle, TN	1	**2**			**3**
Oak Ridge Reservation (UCOR), TN	49	**33**			**82**
PermaFix, TN, WA, and FL	8	**4**			**12**
Portsmouth Gaseous Diffusion Plant, OH	12	**4**			**16**
Sandia National Laboratories, NM	1	**2**			**3**
West Valley, NY	0	**1**			**1**
Y-12 National Security Complex, TN	29	**37**			**66**
Total Shipments	150	**123**			**273**

TABLE 5. NNSS ONSITE TRANSFERS OF LLW/MLLW IN FY 2026

ONSITE TRANSFERS	SHIPMENTS BY QUARTER				
Generator, State	1st	2nd	3rd	4th	**Total**
Mission Support and Test Services, NV	5	**6**			**11**
Navarro, NV	32	**0**			**32**
Total Shipments	37	**6**			**43**

TABLE 6. CNR AND CNRH SHIPMENTS TRANSPORTED TO THE NNSS IN FY 2026

OFFSITE INBOUND SHIPMENTS	SHIPMENTS BY QUARTER				
Generator, State	1st	2nd	3rd	4th	**Total**
Idaho National Laboratory – Battelle Energy Alliance, ID	0	**5**			**5**
Lawrence Livermore National Laboratory, CA	0	**2**			**2**
Mission Support and Test Services, NV	0	**3**			**3**
Sandia National Laboratories, NM	0	**2**			**2**
Total Shipments	0	**12**			**12**

2.3 TRANSPORTATION ROUTE REPORTING

DOE policy is to avoid shipments traveling through the I-15/I-11 interchange. The NNSSWAC includes wording requiring generators to notify their carriers to avoid this area and to select approved routes.

Shipments continue to be restricted from travel near the Hoover Dam. The NNSSWAC requires that waste transported to the NNSS, regardless of DOT classification, avoid the Hoover Dam Bypass Bridge (Mike O'Callaghan – Pat Tillman Memorial Bridge).

Recent quarterly and annual transportation reports may be found on the Internet at https://nnss.gov/mission/environmental-programs/radioactive-waste-management/.

Older reports may be obtained by contacting the Office of Scientific and Technical Information at https://www.osti.gov, or by phone at (865) 576-1188.

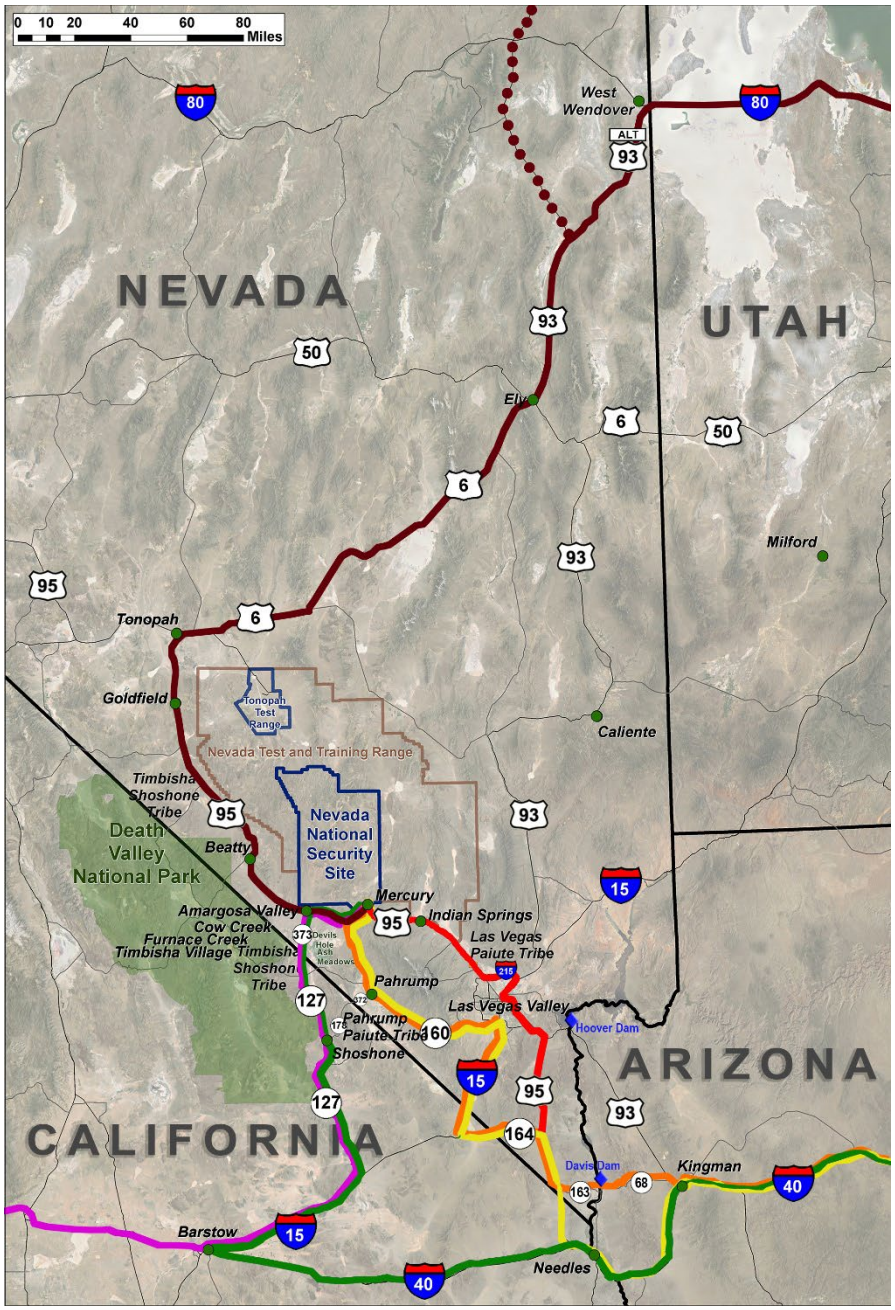
Table 7 provides details of waste shipment routes traveled to the NNSS for the second quarter of FY 2026.

Figure 1 provides a graphic depiction of waste shipment routes traveled to the NNSS for the second quarter of FY 2026.

TABLE 7. SHIPMENT ROUTES FOR THE SECOND QUARTER OF FY 2026

LOW-LEVEL, MIXED LOW-LEVEL & CLASSIFIED NON-RADIOACTIVE WASTE SHIPMENTS TO/ON THE NEVADA NATIONAL SECURITY SITE																		
SECOND QUARTER REPORT, FY 2026 (JANUARY, FEBRUARY, MARCH 2026)																		
			Origin State>>	CA	ID	ID	ID	NM	NM	NV	NY	OH	TN, WA, FL	TN	TN	TN	TN	TN	TN
Route Type	Route Description	Route Legend	Total Shipments by Route	Lawrence Livermore National Lab	Idaho National Laboratory - AMWTP	Idaho National Laboratory - BEA	Idaho National Laboratory - IEC	Los Alamos National Laboratory	Sandia National Laboratories	Mission Support and Test Services	West Valley	Portsmouth Gaseous Diffusion Plant	Perma-Fix	DUF6 Conversion Project	Energy Solutions	Nuclear Fuel Services	Oak Ridge National Laboratory - UT Battelle	Oak Ridge Reservation (UCOR)	Y-12 National Security Complex
SOUTHERN	I-40, US-93, AZ-68, NV-163, US-95, NV-164, I-15, NV-160, US-95		87			3			4			4	4	1	1		2	31	37
SOUTHERN	I-40, US-95, NV-164, I-15, NV-160, US-95		19			4		11		3						1			
SOUTHERN	I-40, I-15, CA-127, NV-373, US-95		1												1				
CALIFORNIA	I-15, CA-127, NV-373, US-95		4	4															
NORTHERN	I-80, US-93-ALT, US-6, US-95		1								1								
NORTHERN	US-93, US-6, US-95		21		1	16	4												
SOUTHERN	US-95, I-11, I-15, 215 BELTWAY, US-95 (Non-Approved)		2															2	
ON-SITE	On-Site Shipments	N/A	6							6									
Total Shipments by Generator>>>			141	4	1	23	4	11	4	9	1	4	4	1	2	1	2	33	37
Total Volume (ft^3) by Generator>>>			110,141	3,431	806	16,698	4,651	5,460	2,226	3,517	1,442	1,384	1,025	2,346	1,456	88	4,354	19,458	41,800

FIGURE 1. ROUTES TRAVELED TO THE NNSS IN THE SECOND QUARTER OF FY 2026



3.0 INCIDENT/ACCIDENT DATA

There were no incidents or accidents in the Second quarter of FY 2026.

For the purpose of this report, incidents and accidents are defined as follows:

- **Incident:** An unintentional release of hazardous material from a package during transportation, load shift, or any occurrence during transportation in which any of the circumstances identified in 49 CFR 171.15(b) occurs (American National Standards Institute N14.27)
- **Accident:** An occurrence involving a commercial motor vehicle operating on a highway in interstate or intrastate commerce that results in a fatality; bodily injury to a person who, as a result of the injury, immediately receives medical treatment away from the scene of the accident; or one or more motor vehicles incurring disabling damage as a result of the accident, requiring the motor vehicle(s) to be transported away from the scene by a tow truck or other motor vehicle (49 CFR 390.5[1])

Waste generators and carriers are dedicated to ensuring an appropriate response should an offsite transportation event occur involving DOE radioactive materials and waste. NNSSWAC Table 12-1 specifies notification requirements for shipments in transit to the NNSS that establish a mechanism for:

- Timely notification of all offsite transportation events to assure adequate response resources are assigned
- Notifying appropriate field response personnel and/or resources (including field sites, Radiological Assistance Program teams, and state and tribal contacts) if they have not already been engaged
- Having all potentially involved personnel prepared to respond to inquiries from the media, elected officials, or the public
- Facilitating communications with state officials and drivers of other shipments en route to the NNSS that law enforcement directions resulted in a deviation to planned (approved) routes

NNSSWAC Table 12-1 requires waste generators notify NNSS Operations Command Center (OCC) whenever a shipment is anticipated to be delayed more than 4 hours, contamination is identified en route, or if a transportation incident (including moving violations, a load shift, or law enforcement directives requiring rerouting) or emergency situation occurs. OCC must be notified within one hour of the route deviation/incident with specific details.

MSTS, a contractor to NNSA/NFO, controls NNSS waste receipt and disposal activities and is responsible for notifying appropriate personnel regarding shipping discrepancies, incidents, or accidents.

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4.0 EVALUATION OF SHIPPING CAMPAIGNS

There was one transportation-related Finding issued in the Second quarter of FY 2026.

- **FP2-26-003-ORTN – A truck and trailer containing LLW in transit to the NNSS for disposal was towed through Las Vegas to a repair facility along an unapproved route (see red route in Figure 1). The tow was required after the truck engine overheated while traveling along an approved route. The driver remained with the trailer containing the waste until it was picked up the next day from the repair facility by another truck operated by the same MCEP-approved carrier and safely delivered to the NNSS for disposal.**

This section contains a summary of the annual shipping campaigns with respect to the significance of the packaging or transportation incidents or accidents reported in Section 3.0 of this report. Waste generators must ensure that waste is packaged and transported in a safe and compliant manner as detailed in the NNSSWAC and DOT regulations. Generators and their contracted shipping carriers must be diligent regarding all requirements including packaging, routing, and shipping documentation.

Findings are issued by EM Nevada Program NNSS RWAP personnel to identify, track, and resolve deficiencies that violate the NNSSWAC. Observations are also issued by RWAP personnel for conditions that represent a weakness in a waste generator's quality assurance or waste certification program that, if left uncorrected, could result in a condition adverse to quality. For the purposes of this report, only transportation and packaging Findings are reported.

The EM Nevada Program NNSS RWAP provides oversight of all waste generators for compliance with DOT regulations and the NNSSWAC. All RWAP-identified Findings on waste generator performance are tracked and trended.

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5.0 REFERENCES

U.S. Department of Energy, Nevada Operations Office, 2013. "Final Site-Wide Environmental Impact Statement for the Continued Operation of the Department of Energy/National Nuclear Security Administration Nevada National Security Site and Offsite Locations in the State of Nevada." DOE/EIS-0426. Las Vegas, Nevada. February 2013.

U.S. Department of Energy, Nevada Operations Office, 2014. "Record of Decision (ROD) for the Continued Management, Operations, and Activities of the Nevada National Security Site (NNSS) and Offsite Locations in the State of Nevada." EIS-0426 Record of Decision. Las Vegas, Nevada. December 2014.

U.S. Department of Energy Environmental Management Nevada Program and U.S. Department of Energy, National Nuclear Security Administration Nevada Field Office. 2024. Nevada National Security Site Waste Acceptance Criteria, DOE/NV--325-24-00. Las Vegas, NV.

U.S. Department of Transportation Regulations, 2012. 49 CFR, "Transportation," Code of Federal Regulations, Office of the Federal Register, National Archives and Records Administration. U.S. Government Printing Office. Washington, D.C. 2012.

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6.0 POINT OF CONTACT

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