

# **FOURTH QUARTER AND ANNUAL TRANSPORTATION REPORT FISCAL YEAR 2018**

**Waste Shipments to and from the Nevada National Security Site  
(NNSS), Radioactive Waste Management Complex**

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

*By:*  
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**October 2018**



*Work performed under contract number:*  
**DE-NA0003624**

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## TABLE OF CONTENTS

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ACRONYMS AND ABBREVIATIONS .....	v
1.0 INTRODUCTION.....	1
2.0 SUMMARY OF WASTE SHIPMENTS AND VOLUMES DISPOSED .....	3
2.1 WASTE TRANSPORTERS (MOTOR CARRIERS) .....	4
2.2 SHIPMENTS.....	5
2.3 TRANSPORTATION ROUTE REPORTING .....	6
3.0 INCIDENT/ACCIDENT DATA.....	11
4.0 EVALUATION OF SHIPPING CAMPAIGNS .....	13
REFERENCES.....	14
POINT OF CONTACT .....	16
DISTRIBUTION LIST.....	19

## LIST OF FIGURES

FIGURE 1. GRAPHIC REPRESENTATION OF ROUTES TRAVELLED TO THE NNSS FOR FOURTH QUARTER OF FY 2018.....	8
FIGURE 2. GRAPHIC REPRESENTATION OF ROUTES TRAVELLED TO THE NNSS FOR FY 2018.....	10

## LIST OF TABLES

TABLE 1. NNSS INBOUND, ONSITE, AND CLASSIFIED NON-RADIOACTIVE SHIPMENT SUMMARY FOR FOURTH QUARTER OF FY 2018.....	3
TABLE 2. APPROVED GENERATORS SHIPPING TO/ON THE NNSS IN FOURTH QUARTER OF FY 2018	4
TABLE 3. APPROVED MOTOR CARRIERS USED IN FOURTH QUARTER OF FY 2018.....	4
TABLE 4. OFFSITE SHIPMENTS OF LLW AND MLLW TRANSPORTED TO THE NNSS IN FOURTH QUARTER OF FY 2018.....	5
TABLE 5. NNSS ONSITE SHIPMENTS OF LLW AND MLLW IN FOURTH QUARTER OF FY 2018.....	6
TABLE 6. CLASSIFIED NON-RADIOACTIVE SHIPMENTS TRANSPORTED TO THE NNSS IN FOURTH QUARTER OF FY 2018.....	6
TABLE 7. SHIPMENT ROUTES FOR FOURTH QUARTER OF FY 2018.....	7
TABLE 8. SHIPMENT ROUTES FOR FY 2018.....	9

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## **ACRONYMS AND ABBREVIATIONS**

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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 <sup>3</sup>	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

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## 1.0 INTRODUCTION

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This report satisfies the U.S. Department of Energy, National Nuclear Security Administration Nevada Field Office (NNSA/NFO) commitment to prepare a quarterly summary of waste shipments to the Nevada National Security Site (NNSS) Radioactive Waste Management Complex (RWMC) in Area 5. This report summarizes the fourth quarter of fiscal year (FY) 2018 and serves as an annual 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 shipments
- Waste generators for LLW, MLLW, and CNR/CNRH shipments to and on the NNSS
- Carriers for LLW, MLLW, and CNR/CNRH shipments to and on the NNSS
- Waste generator shipments by quarter
- Highway routes used by carriers
- Incident and accident data applicable to LLW, MLLW, and CNR/CNRH shipments

In this report, shipments are accounted for upon arrival at the NNSS, while disposal volumes are accounted for upon waste burial. Volume reports showing cubic feet (ft<sup>3</sup>) generated using the Low-Level Waste Information System may vary slightly due to rounding conventions for conversions from cubic meters to cubic feet.

Shipments are transported by motor carriers that are either identified on the U.S. Department of Energy (DOE) Motor Carrier Evaluation Program (MCEP) list, have been evaluated in a manner similar to the MCEP process, or are government vehicles. Government vehicles are not evaluated using the MCEP process but are fully compliant with all transportation regulations and requirements.

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## 2.0 SUMMARY OF WASTE SHIPMENTS AND VOLUMES DISPOSED for 4<sup>th</sup> Quarter of FY2018

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### Total LLW and MLLW Received from Offsite Generators

A total of 180,426 ft<sup>3</sup> of LLW and MLLW was disposed at the NNSS by 20 approved radioactive waste generators in 228 shipments. These shipments were transported using eight MCEP-approved motor carriers and government vehicles.

### Total NNSS Onsite LLW and MLLW

A total of 531 ft<sup>3</sup> of LLW and MLLW was disposed by one approved NNSS onsite radioactive waste generator in seven onsite transfers. Onsite government vehicles were used for these transfers.

### Total CNR/CNRH Received from Offsite Generators

A total of 3,071 ft<sup>3</sup> of CNR/CNRH waste was disposed at the NNSS by four approved waste generators in six shipments. These shipments were transported using two MCEP-approved motor carriers.

Table 1 provides a summary of radioactive and non-radioactive classified shipments. Table 2 provides a list of approved waste generators that shipped to or on the NNSS in the fourth quarter of FY 2018.

**TABLE 1. NNSS INBOUND, ONSITE, AND CLASSIFIED NON-RADIOACTIVE SHIPMENT SUMMARY  
FOR FOURTH QUARTER OF FY 2018**

INBOUND	OFFSITE GENERATORS	NNSS GENERATORS	CARRIERS	SHIPMENTS	VOLUME (FT <sup>3</sup> )
LLW / MLLW (offsite) <sup>a</sup>	19	2	8	228 <sup>b</sup>	180,431
LLW (onsite) <sup>a</sup>	0	1	N/A	7	531
CNR / CNRH	3	1	2	6 <sup>b</sup>	3,071

<sup>a</sup> Government vehicles were used for three LLNL LLW shipments and seven MSTs onsite transfers.

<sup>b</sup> The 228 LLW/MLLW and six CNR/CNRH shipments include 19 classified shipments (eight LLW, five MLLW, two CNR, and four CNRH).

**TABLE 2. APPROVED GENERATORS SHIPPING TO OR ON THE NNSS IN FOURTH QUARTER OF FY 2018**

	GENERATOR NAME	GENERATOR CODE
1	Aberdeen Proving Ground	AP
2	Advanced Mixed Waste Treatment Project	AM
3	Battelle Energy Alliance	NE
4	BWXT Conversion Services (DUF6)	DU
5	CH2M Hill B&W West Valley, LLC	WV
6	Consolidated Nuclear Security, LLC Pantex	PX
7	Consolidated Nuclear Security, LLC Y-12	BW
8	Energy Solutions	DR
9	Fluor Idaho	IN
10	Lawrence Livermore National Laboratory	LL
11	Los Alamos National Laboratory	LA
12	Mission Support and Test Services, LLC	DP
13	Navarro	IT
14	Nuclear Fuel Services	NF
15	Oak Ridge Reservation	OR
16	PermaFix	PF
17	Portsmouth Gaseous Diffusion Plant	PO
18	Sandia National Laboratory	SA
19	UT-Battelle / Oak Ridge National Laboratory	OL
20	Wastren Advantage, Inc.	FW

## 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 often 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, CNR, and CNRH shipments to the NNSS.

**TABLE 3. APPROVED MOTOR CARRIERS USED IN FOURTH QUARTER OF FY 2018**

	APPROVED MOTOR CARRIER	CARRIER CODE
1	BUFFALO FUEL CORPORATION	BUFI
2	CAST TRANSPORTATION	COLO
3	HITTMAN TRANSPORT	HITT
4	HUBBARD TRUCKING	HTAL
5	INTERSTATE VENTURES	ITSV
6	SPECIALTY TRANSPORT, INC.	MAJH
7	TRI-STATE MOTOR TRANSIT	TSMT
8	WILCOX TRUCK LINES, INC.	WCXL
	GOVERNMENT VEHICLE*	GT+

\* Government vehicles transporting waste shipments are fully U.S. Department of Transportation (DOT) compliant

## 2.2 SHIPMENTS

Table 4 provides a summary of all LLW and MLLW offsite shipments received at the NNSS. Table 5 provides a summary of NNSS onsite transfers of LLW and MLLW. Table 6 provides a summary of all CNR shipments received at the NNSS. The three tables include a summary for FY 2018 in the “Total” column.

**TABLE 4. OFFSITE SHIPMENTS OF LLW AND MLLW TRANSPORTED TO THE NNSS IN FOURTH QUARTER OF FY 2018**

OFFSITE INBOUND SHIPMENTS	SHIPMENTS BY QUARTER				
Generator, State	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	Total
Aberdeen Proving Ground, MD	9	0	0	2	11
Advanced Mixed Waste Treatment Project, ID	22	22	36	25	105
Battelle Energy Alliance, ID	12	11	12	8	43
BWXT Conversion Services (DUF6), TN	2	0	3	1	6
CH2M Hill West Valley, LLC, NY	13	55	21	15	104
Consolidated Nuclear Security, LLC – Pantex, TX	1	1	0	2	4
Consolidated Nuclear Security, LLC – Y-12 Plant, TN	29	29	35	21	114
Duratek/Energy Solutions, TN	38	2	0	3	43
Fluor Idaho, ID	12	28	18	22	80
Lawrence Livermore National Laboratory, CA	5	6	6	8	25
Los Alamos National Laboratory, NM	10	8	10	15	43
Mission Support and Test Services, LLC / National Security Technologies, LLC, NV	2	1	0	1	4
Navarro, NV	6	105	50	50	211
Nuclear Fuel Services, TN	2	3	7	3	15
Oak Ridge Reservation, TN	27	47	40	29	143
PermaFix, TN, WA, FL	60	32	68	8	168
Portsmouth Gaseous Diffusion Plant, OH	52	43	24	4	123
Sandia National Laboratories, NM	2	3	4	1	10
UT-Battelle/Oak Ridge National Laboratory, TN	2	6	8	5	21
Wastren Advantage, Inc., TN	11	1	3	5	20
<b>Total Shipments</b>	<b>317</b>	<b>403</b>	<b>345</b>	<b>228</b>	<b>1,293</b>

**TABLE 5. NNSS ONSITE SHIPMENTS OF LLW AND MLLW IN FOURTH QUARTER OF FY 2018**

ONSITE TRANSFERS	SHIPMENTS BY QUARTER				
Generator, State	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	Total
National Security Technologies, LLC, NV	7	12	6	7	32
<b>Total Shipments</b>	7	12	6	7	32

**TABLE 6. CNR AND CNRH SHIPMENTS TRANSPORTED TO THE NNSS IN FOURTH QUARTER OF FY 2018**

OFFSITE INBOUND SHIPMENTS	SHIPMENTS BY QUARTER				
Generator, State	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	Total
Battelle Energy Alliance, ID	0	1	1	1	3
Consolidated Nuclear Security, LLC – Pantex, TX	0	0	0	2	2
Mission Support and Test Services, LLC / National Security Technologies, LLC, NV	0	2	0	2	4
PermaFix, TN, WA, FL	1	0	0	0	1
Sandia National Laboratories, NM	1	1	2	1	5
<b>Total Shipments</b>	2	4	3	6	15

## 2.3 TRANSPORTATION ROUTE REPORTING

DOE policy is to avoid shipments travelling through the I-15/US-95 interchange. The NNSS Waste Acceptance Criteria (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 states, “Waste transportation to the NNSS, regardless of DOT classification, shall avoid the Hoover Dam Bypass Bridge.”

Quarterly and annual transportation reports may be found on the Internet at <http://www.nnss.gov/pages/programs/RWM/Reports.html>

Table 7 provides details of waste shipment routes traveled to the NNSS for the fourth quarter of FY 2018. Figure 1 provides a graphic depiction of waste shipment routes traveled to the NNSS for the fourth quarter of FY 2018.

Table 8 provides details of waste shipment routes traveled to the NNSS for FY2018. Figure 2 provides a graphic depiction of waste shipment routes traveled to the NNSS for FY 2018.

**TABLE 7. SHIPMENT ROUTES FOR FOURTH QUARTER OF FY 2018**

LOW-LEVEL, MIXED LOW-LEVEL & CLASSIFIED NON-RADIOACTIVE WASTE SHIPMENTS TO/ON THE NEVADA NATIONAL SECURITY SITE																							
FOURTH QUARTER REPORT, FY 2018 (JULY, AUGUST, SEPTEMBER 2018)																							
RouteType	Route Description	Route Legend	Origin State>>	CA	ID	ID	ID	MD	NM	NM	NV	NV	NY	OH	TN	TN	TN, WA, FL	TN	TN	TN	TN	TN	TX
			Total Shipments by Route	Lawrence Livermore National Laboratory	Advanced Mixed Waste Treatment Project	Battelle Energy Alliance	Fluor Idaho	Aberdeen Proving Ground	Los Alamos National Laboratory	Sandia National Laboratory	Mission Support and Test Services	Navarro	CH2M Hill BWXT West Valley, LLC	Portsmouth Gaseous Diffusion Plant	Consolidated Nuclear Services Y-12 Plant	Duratek / Energy Solutions	Materials & Energy Corporation (M&EC) Perma-Fix	BWXT Conversion Services (DUF 6)	Nuclear Fuel Services	Oak Ridge Reservation (UCOR)	Oak Ridge National Laboratory	Wastren Advantage, Inc.	Consolidated Nuclear Services Pantex Plant
CALIFORNIA	I-15, CA-127, NV-373, US-95		8	3													5						
SOUTHERN	I-40, US-93, AZ-68, NV-163, US-95, NV-164, I-15, NV-160, US-95		62						2	2				3	13	3	2	1	2	25	2	3	4
SOUTHERN	I-40, US-95, NV-164, I-15, NV-160, US-95		21						9						6		1		1	4			
SOUTHERN	I-40, I-15, NV-160, US-95		6	4											2								
SOUTHERN	I-40, I-15, CA-127, NV-373, US-95		8	1					4					1								2	
NORTHERN	US-6, US-95 (TTR)		50									50											
NORTHERN	I-80, US-93-ALT, US-6, US-95		32				9	2			3		15								3		
NORTHERN	US-93, US-6, US-95		47		25	9	13																
ON-SITE	On-Site Shipments	N/A	7								7												
Total Shipments by Generator>>>			241	8	25	9	22	2	15	2	10	50	15	4	21	3	8	1	3	29	5	5	4
Total Volume (ft³) by Generator>>>			184,029	6,351	22,653	9,775	7,772	937	9,410	815	2,140	24,272	19,477	4,400	23,915	1,448	4,778	2,345	1,967	23,020	10,616	7,234	704
There were no transloaded shipments this quarter																							



**FIGURE 1. GRAPHIC REPRESENTATION OF ROUTES TRAVELLED TO THE NNSS FOR FOURTH QUARTER OF FY 2018**



TABLE 8. SHIPMENT ROUTES FOR FY 2018

LOW-LEVEL, MIXED LOW-LEVEL & CLASSIFIED NON-RADIOACTIVE WASTE SHIPMENTS TO/ON THE NEVADA NATIONAL SECURITY SITE																							
ANNUAL REPORT, FY 2018																							
RouteType	Route Description	Route Legend	Origin State>>	CA	ID	ID	ID	MD	NM	NM	NV	NV	NY	OH	TN	TN	TN	TN, WA, FL	TN	TN	TN	TN	TX
			Total Shipments by Route	Lawrence Livermore National Laboratory	Advanced Mixed Waste Treatment Project	Battelle Energy Alliance	Fluor Idaho	Aberdeen Proving Ground	Los Alamos National Laboratory	Sandia National Laboratory	Mission Support and Test Services	Navarro	CH2M Hill BWXT West Valley, LLC	Portsmouth Gaseous Diffusion Plant	BWXT Conversion Services (DUF6)	Consolidated Nuclear Services Y-12 Plant	Duratek / Energy Solutions	Materials & Energy Corporation (M&EC) Perma-Fix	Nuclear Fuel Services	Oak Ridge Reservation (UCOR)	Oak Ridge National Laboratory	Wastren Advantage, Inc.	Consolidated Nuclear Services Pantex Plant
CALIFORNIA	I-15, CA-127, NV-373, US-95		146	11														135					
CALIFORNIA	I-15, NV-160, US-95		3	2														1					
CALIFORNIA	I-15, CA-127, CA-178, NV-372, NV-160, US-95		1															1					
SOUTHERN	I-40, US-93, AZ-68, NV-163, US-95, NV-164, I-15, NV-160, US-95		508			3		8	4	12	3		40	122	4	85	41	8	14	131	15	12	6
SOUTHERN	I-40, US-93, AZ-68, NV-163, US-95, NV-164, I-15, CA-127, NV-373, US-95		2						2														
SOUTHERN	I-40, US-95, NV-164, I-15, NV-160, US-95		109			3			31	3			8		2	27		17	1	12	1	4	
SOUTHERN	I-40, US-95, NV-164, I-15, CA-127, NV-373, US-95		2						2														
SOUTHERN	I-40, I-15, NV-160, US-95		13	11												2							
SOUTHERN	I-40, I-15, CA-127, NV-373, US-95		11	1					4					1			1					4	
NORTHERN	US-6, US-95 (TTR)		211									211											
NORTHERN	I-80, US-93-ALT, US-6, US-95		111		1		40	3			5		56				1				5		
NORTHERN	US-93, US-6, US-95		191		104	40	40											7					
ON-SITE	On-Site Shipments	N/A	32								32												
Total Shipments by Generator>>>			1,340	25	105	46	80	11	43	15	40	211	104	123	6	114	43	169	15	143	21	20	6
Total Volume (ft³) by Generator>>>			1,157,728	26,978	93,273	33,104	24,031	6,674	28,199	7,587	8,252	102,199	113,509	216,400	13,855	138,436	68,261	113,604	9,418	83,377	48,467	18,681	3,424
*There were forty-eight transloaded shipments during FY2018																							



**FIGURE 2. GRAPHIC REPRESENTATION OF ROUTES TRAVELLED TO THE NNSS FOR FY 2018**





### 3.0 INCIDENT/ACCIDENT DATA

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

- **Incident:** Any 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 (ANSI 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 vehicles to be transported away from the scene by a tow truck or other motor vehicle (49 CFR 390.5[1]).

The DOE waste generators and carriers are dedicated to ensuring an appropriate response to all offsite transportation events involving DOE radioactive materials. In a memo to EM sites on October 17, 2016, the Director of DOE Office of Packaging and Transportation and the NNSA/NFO Assistant Manager for EM established notification criteria to provide additional clarity to the requirements in the NNSSWAC. This reporting is consistent with DOE M 460.2-1, and will help to ensure the following:

- Receiving 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

Waste generators are instructed to notify NNSS personnel whenever a discrepancy, non-compliance, or inadequate performance is identified, or if a transportation incident or emergency situation occurs.

Mission Support and Test Services, LLC (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.

#### **There were no transportation incidents or accidents in the fourth quarter of FY 2018.**

For the FY 2018 period, one transportation-related incident and one transportation-related accident were noted. The incident and accident details are in section 3.0 of the respective FY 2018 quarterly transportation reports and are summarized here:

- DOE/NV/03624--0033, First Quarter Transportation Report FY 2018, had one transportation-related incident, for a shipment with a soft-sided package that had a split seam. There was no breach of containment, and the package was successfully offloaded.
- DOE/NV/03624--0130, Second Quarter Transportation Report FY 2018, had one transportation-related incident for non-regulated intermodal shipments that arrived with

various issues at the transload facility in Kingman, AZ. All of the issues were corrected before the shipments were transported to the Area 5 RWMC for offload.

- DOE/NV/03624--0214, Third Quarter Transportation Report FY 2018, had no transportation-related incidents or accidents.
- DOE/NV/03624--0293, Fourth Quarter Transportation Report FY 2018, had no transportation-related incidents or accidents.

## 4.0 EVALUATION OF SHIPPING CAMPAIGNS

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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. 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 with regard to all requirements including packaging, routing, and shipping documentation.

The NNSS Radioactive Waste Acceptance Program (RWAP) provides oversight of NNSS waste generators for compliance with DOT regulations and the NNSSWAC, including Section 6.0, Waste Transportation and Receipt Information. All RWAP-identified findings and observations on waste generator performance are tracked and trended.

Findings are issued by RWAP personnel to identify, track, and resolve deficiencies that violate the NNSSWAC Revision 16-00, including failure to follow DOT requirements. 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 related Findings are reported.

### **There were no transportation-related findings in the fourth quarter of FY 2018.**

For the FY 2018 period, one transportation-related Finding was issued. The Finding details in Section 4.0 of the respective FY 2018 quarterly transportation reports and are summarized here:

- DOE/NV/03624--0033, First Quarter Transportation Report FY 2018 had one Finding issued for a soft-sided package with a separated seam.
- DOE/NV/03624--0130, Second Quarter Transportation Report FY 2018 had one Finding issued for the intermodal shipments arriving at the transload facility.
- DOE/NV/03624--0214, Third Quarter Transportation Report FY 2018 had no Findings issued.
- DOE/NV/03624--0293, Fourth Quarter Transportation Report FY 2018 had no Findings issued.

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## **POINT OF CONTACT**

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