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ANNUAL REPORT - FY 2004

Radioactive Waste Shipments To and From the Nevada Test Site (NTS)

January 2005

**United States Department of Energy
National Nuclear Security Administration
Nevada Site Office
Las Vegas, Nevada**

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1.0 INTRODUCTION

In February 1997, the U.S. Department of Energy, Nevada Operations Office issued the Mitigation Action Plan which addressed potential impacts described in the "Final Environmental Impact Statement for the Nevada Test Site and Off-Site Locations in the State of Nevada" (DOE/EIS 0243). The U.S. Department of Energy, Nevada Operations Office committed to several actions, including the preparation of an annual report, which summarizes waste shipments to and from the Nevada Test Site (NTS) Radioactive Waste Management Sites (RWMSs) at Area 3 and Area 5. This document satisfies requirements with regard to low-level radioactive waste (LLW) and mixed low-level radioactive waste (MLLW) transported to or from the NTS during fiscal year (FY) 2004. In addition, this document provides shipment, volume, and route information on transuranic (TRU) waste shipped from the NTS to the Waste Isolation Pilot Plant in Carlsbad, New Mexico. This outbound shipping campaign commenced in FY 2004.

This report has been prepared in accordance with the specifications contained in Section 4.1.1 (Commitments) of the "NTS Environmental Impact Statement, Mitigation Action Plan" (February 1997). Tabular summaries are provided which include the following data:

- Sources of and carriers for LLW and MLLW shipments to or from the NTS;
- Number and external volume of LLW and MLLW shipments;
- Identification of highway routes used by carriers; and
- Incident/accident data applicable to LLW and MLLW shipments.

2.0 SUMMARY OF WASTE SHIPMENTS (FY 2004)

In FY 2004, disposal of LLW/MLLW at the two NTS RWMSs consisted of 2,434 inbound shipments, from 24 approved generators. These shipments were transported on 21 different approved motor carriers. A total of 3,743,572 ft³ of LLW/MLLW was disposed of at the NTS in FY 2004.

Two outbound shipments (271 ft³) of MLLW (Lead and Polychlorinated-Biphenyl remediation) were made from Bechtel Nevada to Envirocare in Utah. Thirteen shipments of TRU waste (3,814 ft³) were made from the NTS in FY 2004. Tabular information for these shipments is included in this report.

Table 1 provides a summary of inbound and outbound shipments for FY 2004. Names and codes for approved generators and carriers used in this report are located in Tables 2 and 3, respectively.

Table 1. FY 2004 NTS Inbound and Outbound Waste Shipment Summary Information

| Inbound | Offsite Generators | Onsite Generators | Carriers | Shipments | Volume ft ³ |
|---------------|--------------------|-------------------|-----------------|-----------|------------------------|
| LLW (offsite) | 22 | 0 | 21 | 2,418 | 3,731,122 |
| LLW (onsite) | 0 | 3 ^{1/} | 1 ^{1/} | 16 | 12,450 |
| MLLW | 0 | 0 | 0 | 0 | 0 |
| Outbound | Offsite Generators | Onsite Generators | Carriers | Shipments | Volume ft ³ |
| LLW | 0 | 0 | 0 | 0 | 0 |
| MLLW | 0 | 1 | 2 ^{2/} | 2 | 271 |
| TRU | 0 | 1 | 1 ^{2/} | 13 | 3,814 |

1/ Lawrence Livermore National Laboratory was also an offsite LLW generator in FY 2004, Bechtel Nevada and Stoller-Navarro Joint Venture were onsite LLW generators only. Transportation via government vehicle (approved carrier).

2/ Triad Transport and CAST Transportation were utilized for these Bechtel Nevada shipments.

3/ Tri-State Motor Transit was utilized for these Bechtel Nevada shipments.

Table 2. List of Approved Generators Shipping To The NTS In FY 2004

| APPROVED GENERATOR, STATE | GENERATOR CODE |
|--|----------------|
| ARGONNE NATIONAL LABORATORY, IL | AE |
| BECHTEL NEVADA, NV | DP |
| BECHTEL JACOBS, TN | OR |
| BOEING ROCKETDYNE, CA | BN |
| BRITISH NUCLEAR FUEL LIMITED, TN | ET |
| BWXT-Y12, TN | BW |
| DEFENSE LOGISTICS AGENCY, MD | TH |
| FLUOR FERNALD, OH | WM |
| GENERAL ATOMICS, CA | BG |
| HONEYWELL, KS | AS |
| IDAHO NATIONAL ENGINEERING & ENVIRONMENTAL LAB, ID | IN |
| STOLLER – NAVARRO JOINT VENTURE, NV | IT |
| KAISER HILL (ROCKY FLATS), CO | RF |
| LAWRENCE LIVERMORE NATIONAL LAB, CA | LL |
| MIAMISBURG ENVIRONMENTAL MANAGEMENT PROJECT, OH | MD |
| PADUCAH GASEOUS DIFFUSION PLANT, KY | PD |
| PANTEX PLANT, TX | PX |
| PRINCETON PLASMA PHYSICS LABORATORY (NJ) | PL |
| PORTSMOUTH GASEOUS DIFFUSION PLANT, OH | PO |
| SANDIA NATIONAL LAB-CA, CA | SL |
| SANDIA NATIONAL LAB-NM, NM | SA |
| TT FOSTER WHEELER, TN | FW |
| WESTINGHOUSE SAVANNAH RIVER, SC | SR |
| WEST VALLEY DEMONSTRATION PROJECT, NY | WV |

Table 3. List of Approved Motor Carriers Utilized in FY 2004

| APPROVED MOTOR CARRIER | CARRIER CODE |
|-------------------------------|---------------------|
| BUFFALO FUEL COMPANY | BFUI |
| CAST TRANSPORTATION | COLO |
| DAVIS TRUCKING | DAVS |
| FEDEX CUSTOM CRITICAL | FEDX |
| FLUID TRANSPORTS | FLUD |
| GOVERNMENT VEHICLE | GOVT |
| HITTMAN TRANSPORT | HITT |
| LANDSTAR EXPRESS AMERICA | LEAM |
| LANDSTAR GEMINI | GEMI |
| LANDSTAR INWAY | LDWY |
| LANDSTAR LIGON | LIGS |
| LANDSTAR RANGER | LRGR |
| A.J. METLER | MEAJ |
| MP ENVIRONMENTAL | MPES |
| R & R TRUCKING | RRUK |
| RSB LOGISTICS | RSBI |
| SOUTHERN FREIGHT LOGISTICS | SFLG |
| SLT EXPRESS | SLXL |
| SPECIALTY TRANSPORT | SPCN |
| TAG TRANSPORT | TAGT |
| TRIAD TRANSPORT | TDTO |
| TRI-STATE MOTOR TRANSPORT | TSMT |

2.1 Waste Transporters (Motor Carriers)

Generators often use more than one motor carrier to facilitate their shipments. Table 4 identifies each generator and the corresponding carrier(s) utilized for transport of LLW, MLLW, and TRU to and from the NTS. Motor carriers operate in compliance with regulations located in Title 49 Code of Federal Regulations, "Transportation," and are selected by the generator.

Table 4. Waste Transporters Utilized by Generator For Inbound and Outbound Shipments

| GENERATOR CODE | BFUI | COLO | DAVS | FEDX | FLUD | GOVT | HITT | LEAM | GEMI | LDWY | LIGS | LRGR | MEAJ | MPES | RRUK | RSBI | SFLG | SLXL | SPCN | TAGT | TDTO | TSMT | |
|----------------|------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------|------------------|
| AE | | | | | | | | | | | | | | | | | | | | | | 1 | |
| AS | | | | | | | | | | | | | | | | | | | | | | | 1 |
| BG | | | | | | | | | | | | | | 48 | | | | | | | | | 13 |
| BN | | | | | | | | | | | | | | 69 | | | | | | | | | |
| BW | | | | | | | | | | | | | 25 | | | | | | | | | | 11 |
| DP | | 1 ^{1/2} | | | | 9 | | | | | | | | | | | | | | | | 1 ^{1/2} | 13 ^{2/} |
| ET | | | | | | | | | | | | | 68 | | | | | | 11 | 151 | | | |
| FW | | | | | | | 32 | | | | | | | | | | | | | | 59 | | |
| IN | | | | | | | | | | | | | | | | | | | | | | | 62 |
| IT | | | | | | 4 | | | | | | | | | | | | | | | | | |
| LL | | | | | | 7 | | | | | 5 | 1 | | 43 | 3 | | | | | | | | 2 |
| MD | | | | | 1 | | | | 2 | 15 | 3 | 95 | 1 | | | | | | | | | | |
| OR | | | 35 | | | | | | | | | 3 | 60 | | | 1 | 2 | | | | 12 | | |
| PD | | | | | | | 4 | | | 19 | 7 | 133 | | | | | | | | | 9 | | 74 |
| PL | | | | | | | | | | | | | | | | | | | | | | | 1 |
| PO | | | | | | | | | | | | 13 | | | | | | | | | | | |
| PX | | | | | 2 | | | | | | | | | | | | | | | | | | |
| RF | | 1,096 | | | | | | | | | | | | | 11 | | | | | | | | 1 |
| SA | | | | | 11 | | | | | | | | | | | | | | | | | | 1 |
| SL | | | | | | | | | | | | | | 1 | | | | | | | | | |
| SR | | | | 4 | | | | 1 | | 17 | 6 | 34 | | 1 | | | | | | | | | |
| TH | | | | | | | | | | | | | | | | | | | | | 8 | | |
| WM | | | | | 29 | | | | | | | 43 | | | 15 | | | 7 | | | | | 23 |
| WV | 8 | | | | | | | | | | | | | | | | | | | | | | |

^{1/} Two outbound shipments of MLLW were shipped from NTS to Envirocare, UT. One via Triad Transport and the other via CAST Transportation

^{2/} Thirteen shipments of Transuranic Waste were shipped from NTS to WIPP, NM via CAST Specialty Transport

2.2 Shipments and Volume

Table 5 provides a summary of all LLW and MLLW shipments, including volume, to and from the NTS during FY 2004.

Table 5. Shipments and Volumes of Waste Sent To and From the NTS (FY 2004)

| Offsite Inbound Low Level Waste Shipments | Shipments By Quarter | | | | | Volume (ft3) |
|---|----------------------|------------|------------|-----------------|--------------|------------------|
| Generator Code | 1st | 2nd | 3rd | 4 th | Total | |
| AE | | 1 | | | 1 | 612 |
| AS | | 1 | | | 1 | 1,280 |
| BG | 3 | 12 | 45 | 1 | 61 | 39,282 |
| BN | 43 | 3 | 4 | 19 | 69 | 30,969 |
| BW | | 2 | 10 | 24 | 36 | 25,656 |
| ET | 68 | 76 | 66 | 20 | 230 | 414,558 |
| FW | | 34 | 22 | 35 | 91 | 23,074 |
| IN | | 1 | 32 | 29 | 62 | 23,425 |
| LL | 7 | 3 | 23 | 25 | 58 | 27,099 |
| MD | 23 | 51 | 7 | 36 | 117 | 180,458 |
| OR | 22 | 44 | 32 | 15 | 113 | 123,252 |
| PD | 4 | 70 | 123 | 49 | 246 | 277,175 |
| PL | | | | 1 | 1 | 595 |
| PO | 13 | | | | 13 | 8,906 |
| PX | | | 1 | 1 | 2 | 931 |
| RF | 255 | 303 | 335 | 215 | 1108 | 2,445,540 |
| SA | 2 | | 3 | 7 | 12 | 18,824 |
| SL | | 1 | | | 1 | 407 |
| SR | 3 | 18 | 14 | 28 | 63 | 46,906 |
| TH | | | | 8 | 8 | 10,880 |
| WM | 100 | 8 | 6 | 3 | 117 | 21,750 |
| WV | 3 | 4 | | 1 | 8 | 9,543 |
| Totals | 546 | 632 | 723 | 517 | 2,418 | 3,731,122 |
| Onsite Low Level Waste Shipments | Shipments By Quarter | | | | | Volume (ft3) |
| Generator Code | 1st | 2nd | 3rd | 4 th | Total | |
| DP | 1 | 2 | 1 | 5 | 9 | 7,812 |
| IT | | 1 | 1 | 2 | 4 | 603 |
| LL | | 3 | | | 3 | 4,035 |
| Total | 1 | 6 | 2 | 7 | 16 | 12,450 |
| Outbound Mixed Low Level Waste Shipments | Shipments By Quarter | | | | | Volume (ft3) |
| Generator Code | 1st | 2nd | 3rd | 4 th | Total | |
| DP | 1 | | | 1 | 2 | 271 |
| Total | 1 | | | 1 | 2 | 271 |
| Outbound Transuranic Waste Shipments | Shipments By Quarter | | | | | Volume (ft3) |
| Generator Code | 1st | 2nd | 3rd | 4 th | Total | |
| DP | 7 | | | 6 | 13 | 3,814 |
| Total | 7 | | | 6 | 13 | 3,814 |

2.3 Transportation Routes

Twenty-two out-of-state generators shipped LLW to the NTS for disposal in FY 2004. General cross country transportation routes are displayed in Figure 1. More specific entry routes are displayed in Figure 2. Route identifier codes, route legends, and their corridor states are listed in Table 6. A listing of routes utilized by each generator and the number of shipments can be found in Table 7.

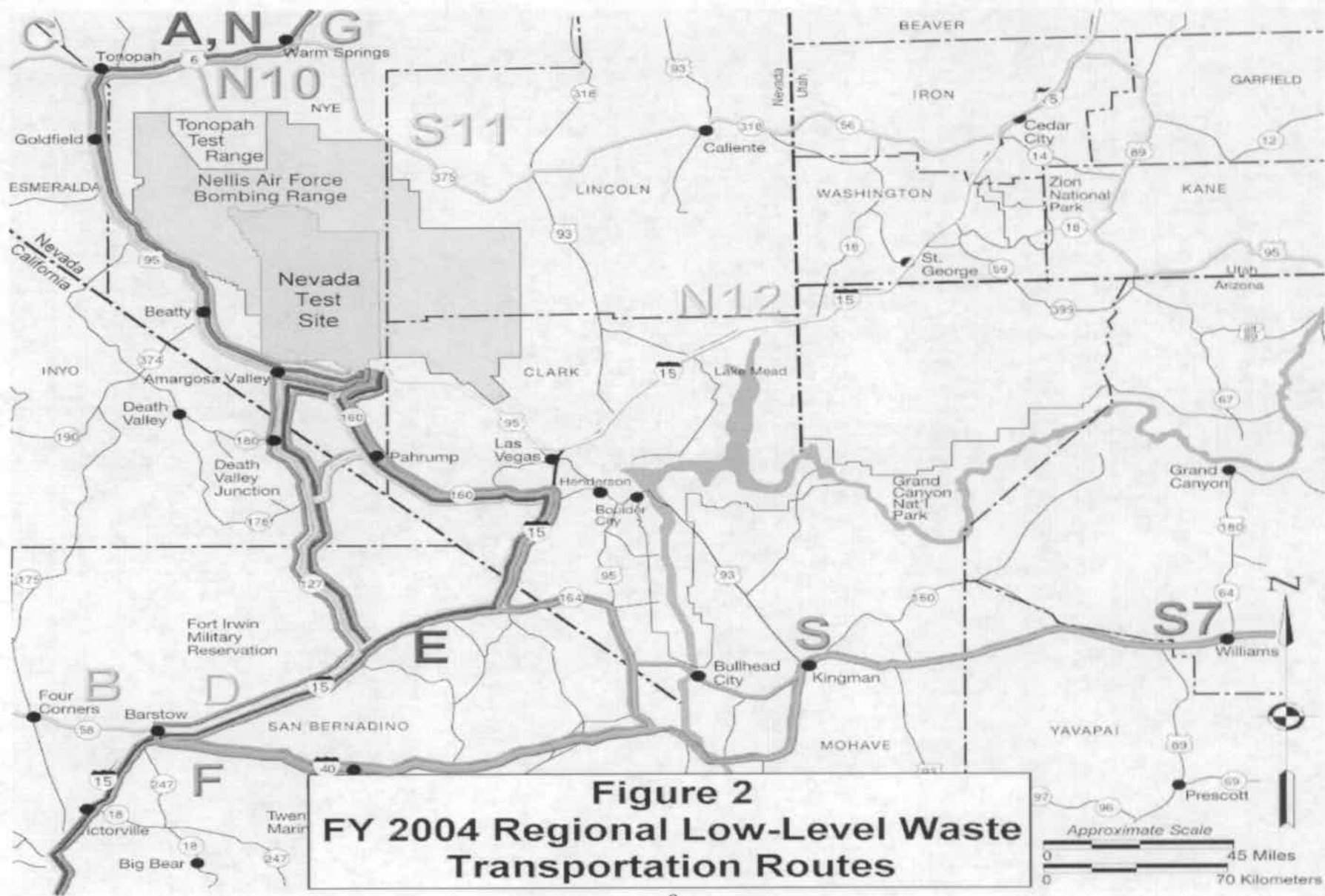


Figure 2
FY 2004 Regional Low-Level Waste Transportation Routes

Table 6. Transportation Route Identification

Route “N” represents the Northern route (I-80) running from East to West. The Northern ancillary routes (N1-13) are feeder routes from generator sites to the main Northern route.

Route “S” represents the Southern route (I-40) running East to West. The Southern ancillary routes (S1-11) are feeder routes from generator sites to the main Southern route.

Route “A” represents the Central route utilized by Kaiser Hill (Rocky Flats).

Routes “B”-“F” represent routes utilized by California generators for shipments to the NTS.

Route “G” represents the route by which outbound LLW was transported to Envirocare.

| Route | Corridor States |
|-------|--|
| N | Northern Route, I-80 Corridor |
| N1 | NJ, PA, OH, IN, IL, IA, NE, WY, UT, NV |
| N2 | NY, OH, IN, IL, IA, NE, WY, UT, NV |
| N3 | ID, UT, NV |
| N4 | OH, IN, IL, IA, NE, WY, UT, NV |
| N5 | TN, KY, IL, MO, IA, NE, WY, UT, NV |
| N6 | KY, IL, MO, IA, NE, WY, UT, NV |
| N10 | NV (TTR) |
| N11 | IL, IA, NE, WY, UT, NV |
| N12 | MO, IA, NE, WY, UT, NV |
| N13 | SC, TN, KY, IN, IL, IA, NE, WY, UT, NV |
| S | Southern Route, I-40 Corridor |
| S1 | SC, GA, TN, AR, OK, TX, NM, AZ, CA, NV |
| S2 | TN, AR, OK, TX, NM, AZ, CA, NV |
| S3 | TX, NM, AZ, CA, NV |
| S4 | NM, AZ, CA, NV |
| S6 | MD, VA, TN, AR, OK, TX, NM, AZ, CA, NV |
| S7 | NV, CA, AZ, NM (Outbound WIPP Route) |
| S8 | OH, IN, IL, MO, OK, TX, NM, AZ, CA, NV |
| S9 | NJ, DE, MD, VA, TN, AR, OK, TX, NM, AZ, CA, NV |
| S10 | KY, TN, AR, OK, TX, NM, AZ, CA, NV |
| S11 | NJ, DE, MD, VA, TN, AR, OK, TX, NM, AZ, UT, NV |
| A | CO, UT, NV |
| B | CA, NV |
| C | CA, NV |
| D | CA, NV |
| E | CA, NV |
| F | CA, NV |
| G | NV, UT |

2.4 Transportation Route Reporting

As a result of obligations made by former DOE Secretary Richardson, the transportation of inbound LLW shipments through the Las Vegas I-15 and US-95 Interchange (“Spaghetti Bowl”) and across Hoover Dam have substantially decreased since FY 2000.

Due to the events of September 11, 2001, tractor trailers are no longer allowed to travel across Hoover Dam. The U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office (NNSA/NSO) continues to engage in discussions with the generators regarding the avoidance of the Spaghetti Bowl.

NNSA/NSO continues to honor an additional obligation made by former Secretary Richardson, and endorsed by the current administration, by preparing quarterly reports disclosing which routes transporters used to reach the NTS. These reports may be found on the Internet at <http://www.nv.doe.gov/programs/xportmgmt/QuarterlyReport.htm> .

Three shipments of LLW were approved by the State of Nevada to be transported through the Spaghetti Bowl in FY 2004. The approval was given by the Nevada Highway Patrol due to over dimensional characteristics of the loads. Two additional shipments were transported on unauthorized routes, but did not travel through the Spaghetti Bowl. Both of these unique events were attributed to the use of new carriers that were not fully aware of the routing suggestions being offered by the generators. The two generators were immediately notified, resulting in no further occurrences.

Use of intermodal transportation for shipments of LLW continued in FY 2004 with 104 shipments tendered by Portsmouth Gaseous Diffusion Plant and Paducah Gaseous Diffusion Plants. Intermodal transfer facilities in Cisco, Utah continued to be used for trans-loading of shipments. Table 8 identifies specific routes utilized by generators to transport LLW to the NTS.

Table 8. Shipment Summary of Offsite Inbound and Outbound Regional Routes for FY 2004

| DESCRIPTION | AE | AS | BG | BN | BW | DP | ET | FW | IN | LL | MD | OR | PD | PL | PO | PX | RF | SA | SL | SR | TH | WM | WV | Total |
|---|----|----|----|----|----|----|-----|----|----|----|-----|----|----|----|----|----|-------|----|----|----|----|----|----|-------|
| I-15 (MESQUITE), I-215, US-95 (NORTH BELTWAY NON APPROVED) | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 |
| I-15, CA-127, CA-178, NV-372, NV- 160, US-95 | | | 10 | 69 | | | | | | 51 | | | | | | | | | 1 | | | | | 131 |
| I-15, CA-127, NV-373, US-95 | | | 13 | | | | | | | 6 | | | | | | | | | | | | | | 19 |
| I-15, NV-160, US-95 | | | 38 | | | | | | | 1 | | | | | | | | | | | | | | 39 |
| I-40, I-15, CA-127, NV-373, US-95 | | | | | | | | 1 | | | | | 8 | | | | | | | | | | | 9 |
| I-40, I-15, NV-160, US-95 | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 |
| I-40, US-93, AZ-68, NV-163, US-95, NV-164, I-15, CA-127, NV-373, US-95 | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 |
| I-40, US-93, AZ-68, NV-163, US-95, NV-164, I-15, NV-160, US-95 | | | | | 10 | | 158 | | | | 5 | 13 | 67 | | | | | | | 3 | | | | 256 |
| I-40, US-93, AZ-68, NV-163, US-95, US-93, I-515, I-215, NV-146, I-15, NV- 160, US-95 (SOUTH BELTWAY NON- APPROVED) | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 |
| I-40, US-93, AZ-68, NV-163, US-95, US-93, I-515, US-95 (SPAGHETTI BOWL - APPROVED) | | | | | | | | | | | | | 3 | | | | | | | | | | | 3 |
| I-40, US-95, NV-164, I-15, CA-127, CA- 178, NV-372, NV-160, US-95 | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 |
| I-40, US-95, NV-164, I-15, CA-127, NV- 373, US-95 | | | | | | | | 90 | | | 4 | 2 | | | | | | | | 3 | | 23 | | 122 |
| I-40, US-95, NV-164, I-15, NV-160, US- 95 | | | | | 26 | | 71 | | | | 102 | 63 | 76 | | | 2 | | 12 | | 52 | 8 | 38 | | 450 |
| I-80, US-93-ALT, US-6, US-95 | 1 | | | | | | | | 61 | | 5 | 35 | | 1 | | | | | | 1 | | 56 | 8 | 168 |
| I-80, US-95 (RENO) | | | | | | | | | | | | | | | | | | | | 2 | | | | 2 |
| US-50, US-6/50, US-6, US-95 | | | | | | | | | | | | | 91 | | 13 | | 1,108 | | | | | | | 1,212 |
| US-93, US-6, US-95 | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 |
| UT-56, NV-319, US-93, NV-375, US-6, US-95 | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 |
| US-95, NV-373, CA-127, I-15, I-40, US- 285, US-70/285, NM-200, US-180/62 | | | | | | 13 | | | | | | | | | | | | | | | | | | 13 |
| US-95, US-6, ALT US-93, I-80 | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 |

3.0 INCIDENT/ACCIDENT DATA

For the purpose of this report, an incident is defined as a traffic-related accident, a load shift, or a reported leaking/breached package which occurs during transportation.

Generators shall notify the NNSA/NSO Assistant Manager of Environmental Management whenever a discrepancy, non-compliance, or inadequate performance is identified; or if a transportation incident or emergency situation occurs.

Bechtel Nevada personnel control NNSA/NSO waste receipt and disposal activities at the NTS and are responsible for notifying appropriate personnel regarding any non-compliant or refused radioactive waste shipments. Bechtel Nevada personnel also immediately notify generators in the event of any shipping paper discrepancies.

Two transportation incidents occurred in FY 2004. In October, 2003 an intermodal shipment from Portsmouth Gaseous Diffusion Plant traveling South on US-95 near Beatty, Nevada was sideswiped by another commercial motor vehicle. The contents of the sealand container remained intact. However, as a result of the damage incurred by the tractor and trailer the container was transported to the NTS on another carrier vehicle. The driver was transported to a Las Vegas, Nevada area hospital and then released. The driver of the other commercial motor vehicle was cited for several safety infractions and continued on to his destination. Despite this incident, the shipment arrived on the originally scheduled delivery date.

In January 2004, a British Nuclear Fuels shipment from Oak Ridge, Tennessee was involved in single vehicle accident on I-40 near mile marker 80 in Arkansas. The package was not breached and the shipment was returned to origin and inspected prior to transportation recommencing.

Below is a list of issues observed during unloading operations during FY 2004. These issues are reported to the generators who then implement appropriate corrective actions to prevent recurrence.

- Four delivery vehicles/packages were found to be contaminated. The contaminated parts were removed from the trailers and buried with the shipments.
- One drum was found to have a loose lid. No breach or contamination was detected.
- A single 55-gallon drum was observed with three holes in the drum lid. No radioactive contamination nor unexpected radioactive dose, no personnel injuries, and no damage to equipment or structures resulted from this event. The event was caused by the use of inappropriate drum moving equipment at the generator site.
- A waste box was knocked off a trailer during offloading. No damage to the box resulted, and no contamination was detected.
- A wooden box was found to be in very poor condition and not in compliance with the NTS Waste Acceptance Criteria. The package did not breach and was not leaking at the time it arrived at NTS.
- A Paducah waste stream was suspended due to difficulties offloading intermodals.

Additional clerical errors were also observed and reported to generators.

A non-transportation related incident involved the possibility that non-conforming items were included in shipments to the NTS. In September 2004, Paducah Gaseous Diffusion Plant notified NNSA/NSO of potential non-conforming items that may have been included in some of their FY 2004 LLW shipments. Discussions between Paducah and NNSA/NSO are ongoing and this issue has not been resolved as of this date.

4.0 EVALUATION OF SHIPPING CAMPAIGNS

Two of the 2,433 off site inbound/outbound shipments experienced incidents while in transit to the NTS. All generator shipping campaigns were considered successful.

5.0 REFERENCES

The primary sources of shipment information in this report were records kept by the Bechtel Nevada Waste Management Program, who manages the NTS RWMSs at Area 3 and Area 5. These records provided detailed information on each shipment of LLW and MLLW (dates received, generators, number and type of waste packages, volumes, weight, carrier, and final disposition of shipments). In addition, incident and accident information was gathered by reviewing other Bechtel Nevada and NNSA/NSO correspondence and through personal communication with NNSA/NSO managers, Bechtel Nevada management and program personnel, representatives from the waste generator facilities, and carrier personnel. Route information was gathered from quarterly routing reports generated by NNSA/NSO.

The following source documents are incorporated by reference:

- U.S. Department of Energy, Nevada Operations Office, "Final Environmental Impact Statement for the Nevada Test Site and Off-Site Locations in the State of Nevada" DOE/EIS 0243, Las Vegas, Nevada, August 1996.
- U.S. Department of Energy, Nevada Operations Office, "Mitigation Action Plan - Final Environmental Impact Statement for the Nevada Test Site and Off-Site Locations in the State of Nevada" DOE/EIS 0243, Las Vegas, Nevada, February 1997.
- U.S. Department of Transportation (DOT) Regulations, 49 CFR, "Transportation," *Code of Federal Regulations*, Office of the Federal Register, National Archives and Records Administration, U.S. Government Printing Office, Washington, DC, 1998.

6.0 POINTS OF CONTACT

Please contact the following personnel for questions concerning the transportation of radioactive waste at the NTS or for requests for information relating to waste management and NNSA/NSO operations.

WASTE MANAGEMENT

E. Frank DiSanza, Director
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National Nuclear Security Administration
Nevada Site Office
Waste Management Division
P.O. Box 98518
Las Vegas, NV 89193-8518
(702) 295-5855

7.0 ACRONYM LIST

| | |
|-----------------------|---|
| ft³ | Cubic Feet |
| CFR | Code of Federal Regulations |
| DOE | U.S. Department of Energy |
| DOT | U.S. Department of Transportation |
| dpm | Disintegrations per minute |
| EPA | U.S. Environmental Protection Agency |
| FY | Fiscal Year |
| LLW | Low-level radioactive waste |
| MLLW | Mixed Low-Level Radioactive Waste |
| NNSA/NSO | U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office |
| NRC | U.S. Nuclear Regulatory Commission |
| NTS | Nevada Test Site |
| PCB | Polychlorinated Biphenyls |
| RWMSs | Radioactive Waste Management Sites |
| WMD | Waste Management Division |

8.0 DISTRIBUTION LIST

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Las Vegas, NV 89193-8518

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Las Vegas, NV 89193-8521

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Office of Scientific and Technical Information
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