TRANSPORTATION WORKING GROUP MEETING MINUTES

Thursday, October 11, 2001 – 1:30 – 4:30 p.m.
National Nuclear Security Administration Nevada Support Facility
Great Basin Room

WELCOME & INTRODUCTIONS – Rex Massey & Frank Disanza

Rex Massey, Chairperson, welcomed all attendees to the Nevada Test Site Transportation Working Group (TWG) meeting. Attendees then introduced themselves and provided their affiliation. **(See enclosure 1)**

Additional enclosures are listed for your convenience.

Enclosure 1	Attendance List
Enclosure 2	Agenda
Enclosure 3	Letter from County of San Bernardino, CA to USDOE
Enclosure 4	FY2001 Fourth Quarter Waste Routing Report FY2001 Year To Date Waste Routing Report Map showing location of Gate 100 Truck Parking Area FY2001 Actual LLW Volumes Shipped FY2002 Forecast LLW Volumes
Enclosure 5	Briefing: Impact of Routing Decisions on Rural Communities
Enclosure 6	Memorandum from Jim Williams to Les Bradshaw
Enclosure 7	Briefing: FY2002 Emergency Response Grants
Enclosure 8	Briefing: Intermodal Transfer in Utah
Enclosure 9	Briefing: WVDP Transportation Incident
Enclosure 10	Briefing: Transportation Protocols Update
Enclosure 11	Briefing: TWG Internet Site Demo
Enclosure 12	Directions to NNSA/NV Facility

Rex Massey reviewed the agenda **(See enclosure 2)**, with no changes being made. A letter was provided to the group from the county of San Bernardino, CA to USDOE Secretary Abraham concerning proposed routing of LLW through the county. **(See enclosure 3)** Rex asked if any public comments needed to be heard, there were none. The end of January, or early February 2002 were mentioned as the target dates for the next meeting, a decision was made, following the meeting, that the date of the next TWG meeting will be February 7, 2002.

Mr. Frank Disanza briefly discussed the FY 2001 Fourth Quarter and Year-to-Date Waste Routing Reports detailing low-level radioactive waste shipments to the Nevada Test Site. The reports provide the generator name, number of shipments and routes taken for inbound Low Level Waste (LLW) shipments. The handouts will be updated prior to their inclusion in the minutes. The update will add shipment data from September. It was reported that no shipments were transported across Hoover Dam, or through the Las Vegas Interchange (Spaghetti Bowl) during the Forth Quarter of FY2001. Frank then presented slides on the new trailer parking area located just inside the NTS at Gate 100. This was the culmination of an issue raised by the TWG during the preparation of the NTS EIS. In addition, both the actual FY2001 LLW volumes and the FY2002 volume forecast were discussed. **(See enclosure 4)**

Frank read an excerpt from a meeting announcement made at the Community Advisory Board (CAB) for NTS Programs Meeting held October 3, 2001. The announcement concerned the NTS Sitewide Environmental Impact Statement Supplemental Analysis. The announcement read as follows:

"Back in 1996 a sitewide environmental impact statement was conducted to analyze the impacts of programs being conducted at the NTS, TTR, portions of Nellis Air Force Range Complex, the Central Nevada Test Area, and Project Shoal area. The National Environmental Policy Act requires follow-up supplemental analysis of that statement be conducted 5 years later. The site has finalized a contract with TetraTech NUS to conduct this review. It's important that you are familiar with the components of the review and take advantage of the opportunity to review and provide comments to its conclusions. You'll be hearing more about this work in the near future, and this is a subject that we would like the CAB to focus on in the next six months or so."

The use of I-80 for shipments from California generators through northern Nevada was discussed. It was determined that 35 shipments had used this corridor in FY2001. It was the commenter's understanding that the use of this route impacts counties who are either not trained for, or not being included in the current compensation package for emergency response. Mr. Disanza said he would look into the issue and report back. **ACTION ITEM**

IMPACT OF ROUTING DECISIONS ON RURAL COUNTIES – Les Bradshaw/Nye County

Mr. Bradshaw provided a briefing using data from the 2nd and 3rd Quarter LLW routing that showed that the routing of LLW shipments around the Las Vegas metropolitan area has increased transport of these shipments on rural roads and through rural counties. In support of his briefing, Les provided a copy of a memorandum stating several talking points on LLW shipment routing. Les requested that the members of the group review the points for accuracy and need for this data and report back to Mr. Jim Williams on their findings at jimwilliams@rmi.net or by phone at (303) 388-2185. **(See enclosures 5 and 6)**

FY02 EMERGENCY RESPONSE GRANTS – Fran Disanza/NNSA/NV

Mr. Disanza provided a briefing on the proposed budget and distribution for FY2002, and the resolution of FY2001 funding. **(See enclosure 7)**

The question was asked if other sites compensate local governments for emergency response costs. Mr. Disanza did not know of any sites that did this.

During the discussion, Mr. Disanza reported that there is currently a moratorium on shipping any LLW, MLLW, and TRU waste within the DOE complex.

INTERMODAL TRANSFER IN UTAH – Dan Owen/Greenfield Logistics, LLC

Mr. Dan Owen and Mr. Greg Copeland provided a briefing of the proposed transload facility located in Aragonite, UT (Near Milford). The following questions, and others were raised during the briefing: **(See enclosure 8)**

Q: What is the percentage of LLW planned versus other materials?

A: The percentage of LLW is much lower than other materials, there is quite a bit of materials that are being moved at this site already, much of it outbound.

Q: Who are the LLW customers going to be?

A: Only those generators who have been approved by the NTS Waste Acceptance Criteria process.

Q: Will shipments be going to USEcology in Beatty?

A: Potentially, if there is business.

Q: If acceptable, would you move transload facility to Nevada?

A: If it were acceptable (like Caliente), yes they would look at moving facility.

Q: What is the briefing comment on rail safety being safer than truck based upon? The Volpe study disagrees with this comment.

A: There are many studies on this subject, however, generally speaking they all show that bulk material is more economically and more safely handled by rail.

Q: Where is Aragonite, UT?

A: Approximately 35 northwest of Cedar City, UT.

Ron Ross of the WGA stated that there is an agreement that LLW cannot be transported through the Glenwood Canyon corridor, shipments must come via I-80 corridor.

WVNDP TRANSPORTATION INCIDENT – Jacqueline Jackson/WVNSCO

Ms. Jacqueline Jackson presented a briefing detailing the recent LLW transportation incident that occurred in West Wendover, NV. The briefing concentrated on the findings and corrective actions put in place to prevent an incident of this type from occurring again. **(See enclosure 9)**

TRANSPORTATION CONSIDERATIONS DURING THE WINTER OLYMPICS- Ron Ross/WGA

Frank Disanza asked Mr. Ron Ross to present a quick overview of what is currently being proposed to deal with hazardous materials transportation in and around the Salt Lake City, UT area during the Winter Olympics, being held between February 8-24, 2002. The current thinking is to open windows nightly to allow hazardous movements to occur, or to bypass the SLC area during those dates. This action covers both radioactive and hazardous materials shipments. Local deliveries would be allowed, however all other shipments would have to avoid the area. WGA is in discussions with EM-1 to ensure use of the southern routes during this time period.

WIPP EMERGENCY RESPONSE TRAINING EXERCISE UPDATE – Mike Alexander/Nevada DEM

Mr. Mike Alexander presented a brief update on the scheduled WIPP emergency response exercise. Originally scheduled for September 22nd, near the Longstreet Inn & Casino (Amargosa Valley) as a two state, two county exercise. It has been delayed by the uncertainties of the California routing issues and is now scheduled for January 12th, 2002. It looks as though it will be a one state, one county exercise held somewhere on US-95 north of Mercury, NV. A logistics and scenario planning session for exercise planners is scheduled for week of November 11th.

TRU WASTE UPDATE – Angela Colarusso/NNSA/NV

Frank Disanza asked Angela Colarusso to give a brief update of the TRU Waste program. Angela stated that the Lathrop Wells gate was being considered for an exit point for the WIPP shipments. NNSA/NV will be in contact with YMPSCO once the use of this gate is further explored. The plans are still to ship in FY2002, however this is dependent upon the TRUPACT-II availability. Also the use of the mobile loading system must be scheduled two months in advance. It takes approximately 6-8 hours to load a complete trailer for shipment.

TRANSPORTATION PROTOCOLS UPDATE – Lee Stevens/Navarro Research & Engineering

Mr. Lee Stevens provided a brief overview of the status of the protocols (Now a manual for DOE Order 460.2) A new target date of end of February, 2002. At that time the protocols will also be available on the internet, NNSA will put a link to them on their website. (See enclosure 10) **NOTE:** Information received from Headquarters on 0/22/2001 states that the protocols will be entered into the 30-day comment period on 10/25/2001. After that there will be an additional 60 days to respond to those comments.

TWG INTERNET SITE DEMONSTRATION – Lee Stevens/Navarro Research & Engineering

Lee provided a overview of the NNSA/NV internet site and showed what and where information regarding waste management is available. Concern over the type and amount of information provided at the site, especially in the wake of the September 11th attacks was voiced. **(See enclosure 11)**

NEW BUSINESS

The following questions were raised during the new business portion of the meeting:

Q: Will bulk waste be accepted at the NTS?

A: There are ongoing discussions, but no action has been taken. Discussions revolve around the use of liners, such as burrito wraps being used.

Q: Is the NTS set up for Saturday and off-hours deliveries?

A: Current practice (NTSWAC) requires generators notifications of planned deliveries. Saturday and after-hour deliveries are discouraged at present. If a campaign requires different schedules, this must be discussed prior to shipment.

Barbara Byron (via phone) explained that the Governor of California had concern about the amount of information regarding waste shipments available to the public.

Ms. Byron was queried about California's position on proposed Waste Isolation Pilot Plant routes through California. She stated that a paper was drawn up for the Governor, but no action has currently been taken on the paper, or the issue.

As this was the first time a call-in number was utilized, the following ideas were brought forward by those listening via phone:

- When the speaker answers a question from the audience, restate the question for the benefit of the callers.
- When providing briefings and using slides, explain the slide and location on the slide of information being discussed. (copies of available slides were sent to the callers prior to the meeting)

ADMINISTRATION AND NEXT MEETING

As mentioned earlier in the minutes, Frank Disanza has made arrangements to hold the next meeting from 1:30 – 4:30 p.m. on Thursday, February 7, 2002. The meeting location shall be:

U.S. Department of Energy
National Nuclear Security Administration
Nevada Operations Office
Nevada Support Facility
232 Energy Way
North Las Vegas, NV 89030
Great Basin Conference Room A107 (No DOE Badge Required)
A map will accompany the minutes **(See enclosure 12)**

Proposed Agenda Items:

- WIPP Emergency Response Training Exercise Update
- Results of WVDP Audit

The meeting was adjourned at approximately 4:10 p.m.

SUMMARY OF ACTION ITEMS

(From 3/8/2001) Mr. Disanza will provide Ms. Susie Snyder and Ms. Kalynda Tilges with printed copies of the protocols when they are available.

NNSA/NV will forward to the attention of the TWG, any EIS changes dealing with transportation.

Mr. Frank Disanza will investigate the use of I-80 for shipments from California generators.

TRANSPORTATION WORKING GROUP ATTENDEES LIST
10/11/2001 MEETING

Mike Alexander Nevada Department of Emergency Management	Chris Binzer Robison/Siedler
Les Bradshaw Nye County	Jim Buckley Fluor Fernald
Barbara Byron California Energy Commission	Milton W. Chilton NNSA/NV EMD
Angela Colarusso NNSA/NV WMD	Greg Copeland Greenfield Logistics, Inc.
Earl Dixon UNLV	E. Frank Disanza NNSA/NV WMD
Bryan Elkins, Director Community Development, Caliente	Frank Hauck CA Office of Emergency Services (Via Phone)
Bill Hillenger San Bernardino County (Via Phone)	Judith Holm NNSA/NTP-A (Via Phone)
Jacqueline Jackson West Valley Demonstration Project	Sean Kosinski NNSA/NV-ERD
Kelly Kozeliski NNSA/NV EM	Marian Lawrence
Ann Marshall YMSCO	Rex Massey Research and Consulting Service, Inc.
Joni Norton NNSA/NV WMD	Dan Owen Greenfield Logistics, Inc.
Tisha Patton Fluor Fernald	Gary Provansal San Bernardino County
Andrew Remus Inyo County	Carla Sanda ITLV
John Sattler DOE Fernald Area Office	Dale Schutte
Lee J. Stevens NRE/WMD	Carrie Stewart PBSJ
John B. Walker Nevada Division of Environmental Protection	

Transportation Working Group Meeting

National Nuclear Security Administration Nevada Operations Office
Nevada Support Facility
232 Energy Way
North Las Vegas, NV
Great Basin Conference Room (A107)
Thursday October 11, 2001
1:30- 4:30 PM

AGENDA

1:30 PM	**Welcome/Introductions**	**Frank Disanza, NNSA/NV & Rex Massey, R&CS, Inc.**
1:50 PM	**Impact of Routing Decision on Rural Counties**	**Les Bradshaw, Nye County**
2:00 PM	**FY02 Emergency Response Grants**	**Frank Disanza, NNSA/NV**
2:10 PM	**Intermodal Transfer in Utah**	**Dan Owen & Greg Copeland Greenfield Logistics, LLC**
2:40 PM	**West Valley Nuclear Demonstration Project Transportation Incident Briefing**	**Jacqueline Jackson, WVNSCO**
3:15 PM	**Break**	
3:30 PM	**WIPP Emergency Response Training Exercise Update**	**Mike Alexander State of Nevada/DEM**
3:45 PM	**Transportation Protocols Update**	**Lee Stevens, Navarro Research**
3:50 PM	**TWG Internet Site Demo**	**Lee Stevens, Navarro Research**
4:00 PM	**New Business/General Discussion**	**Rex Massey, R&CS, Inc.**
4:30 PM	**Adjourn Meeting**	**Rex Massey, R&CS, Inc.**

Revised 10/9/2001

To submit agenda items, contact the Transportation Working Group Chairman, Rex Massey at (775) 849-9701 or via e-mail at rexmassey@aol.com

NOTE: There is NO DOE badge required for this meeting room.

COUNTY OF
SAN BERNARDINO

Board of Supervisors

County Government Center
385 North Arrowhead Avenue, Fifth Floor
San Bernardino, CA 92415-0110
(909) 387-4811

JOHN F. MICHAELSEN
Transitional County Administrative Officer

BOARD OF SUPERVISORS

Bill Postmus ..... First District
Jon D. Mikels ..... Second District
Dennis Hansberger, Vice Chair ..... Third District
Fred Aguiar, Chair ..... Fourth District
Jerry Eaves ..... Fifth District

LORNE E. BASTIAN
Clerk of the Board of Supervisors

October 9, 2001

Honorable Spencer Abraham
Energy Secretary
United States Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585

SUBJECT: TRANSPORTATION OF LOW LEVEL RADIOACTIVE WASTE THROUGH SAN BERNARDINO COUNTY

Dear Mr. Abraham:

The United States Department of Energy has consistently recommended the use of transportation corridors in San Bernardino County for transport of radioactive waste to federal facilities in Nevada (Yucca Mountain) and New Mexico (Waste Isolation Pilot Plant). On June 10, 2001 the County Board of Supervisors, adopted Resolution No. 2001-194, opposing the transportation of low level radioactive waste through the County.

These shipments which are proposed to begin in 2002, would traverse State Highway 58 from Kern County line to Barstow, I-15 from Barstow to Baker, State Highway 127 from Baker to the Nevada State line and I-40 from Barstow to Needles. These routes are not only essential for the economic well being of the County and its residents, but also provide critical habitat for numerous threatened and endangered species.

Emergency response resources are extremely limited on these expansive, isolated highway corridors. One obvious potential hazard of the shipments includes leaking containers from train and/or truck traffic accidents. When an incident such as this occurs the response times for emergency responders including Fire and Hazardous Materials teams would be well over an hour. This poses an unnecessary burden to our resources and a substantial threat to the health and safety of our citizens.

We strongly oppose the transportation of radioactive waste through the County of San Bernardino using our county roads and highways as transportation corridors as recommended by the U.S. Department of Energy. The Department of Energy must be prepared to take full responsibility for any adverse consequences resulting from these shipments. The Board of Supervisors is particularly disappointed that this burden has been placed upon local government without commensurate training, equipment and compensation. This project is a tremendous burden to the unfunded areas of San Bernardino County.

Sincerely,

FRED AGUIAR
Chairman
Supervisor, Fourth District

BILL POSTMUS
Supervisor, First District

cc: Honorable Gray Davis, Governor of the State of California
Representative Jerry Lewis
Representative Joe Baca
Representative Gary Miller
Representative Nell Soto
Representative Barbara Boxer
Representative Dianne Feinstein
San Bernardino County Board of Supervisors
Steve Larson, Executive Director California Energy Commission
Peter R. Hills, Fire Chief/Fire Warden San Bernardino County Fire Dept.

MONTHLY WASTE ROUTE DRIVER'S SURVEY REPORT

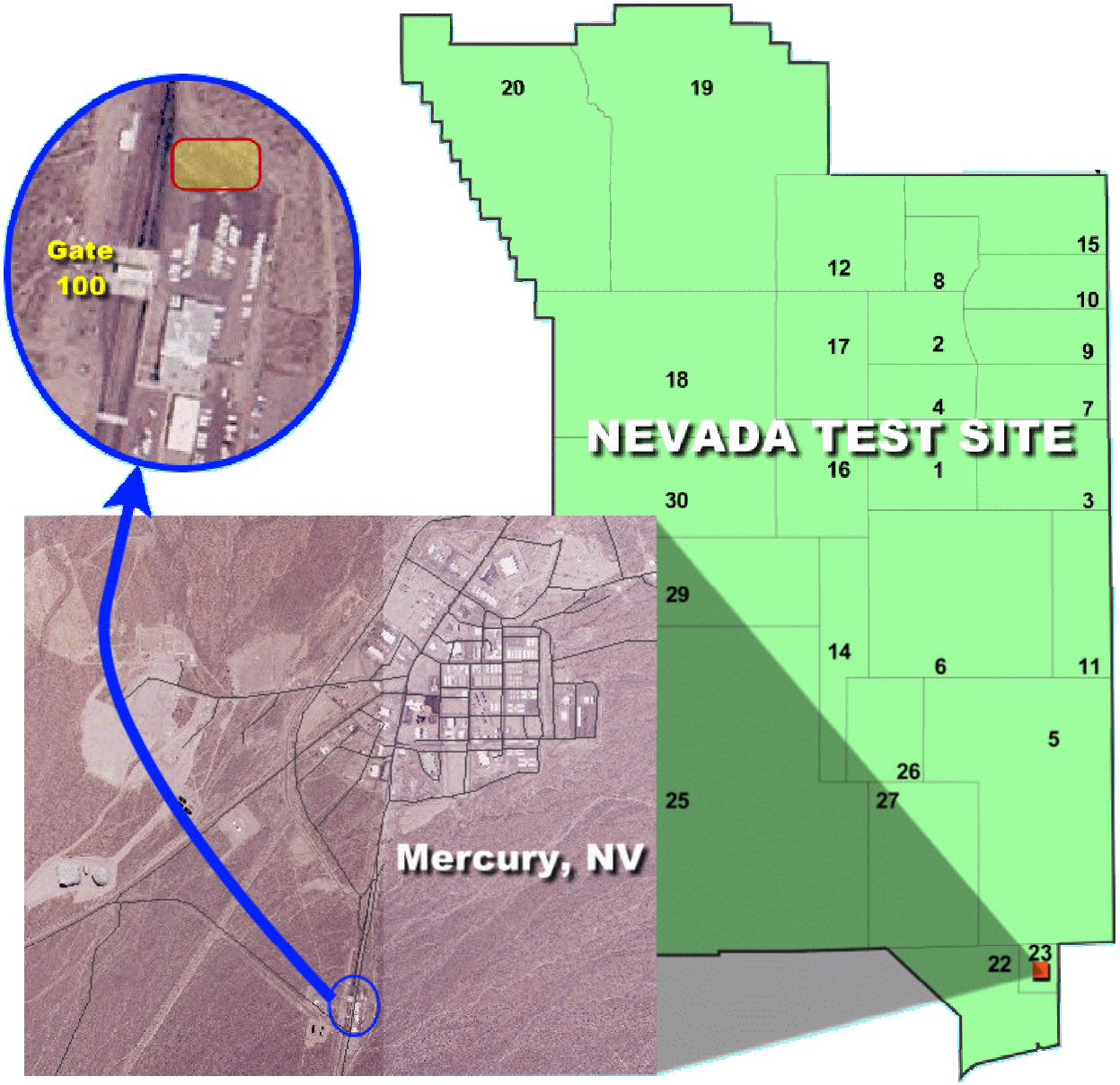
FY2001 4TH QUARTER-SHIPMENT TOTALS TO DATE--- AS OF 9/30/2001

ENTRY STATE	WASTE ROUTE	ROCKY FLATS (CO)	FERMCO (OH)	MOUND (OH)	RMI-EARTHLINE (OH)	OAK RIDGE NATIONAL LAB (TN)	USDOE OAK RIDGE (TN)	SANDIA NATIONAL LAB (CA)	LIVERMORE NATIONAL LAB (CA)	LOVELACE LAB (NM)	SANDIA NATIONAL LAB (NM)	GENERAL ATOMICS (CA)	BOEING-ROCKETDYNE (CA)	PANTEX (TX)	ABERDEEN PROVING GROUNDS (MD)	ABERDEEN PROVING GROUNDS (INEEL)	SAVANNAH RIVER SITE (SC)	WEST VALLEY NUCLEAR (NY)	IT LAS VEGAS (NV)	ROUTE TOTAL
UT	I-70, US-50, I-15, US-50, US-6-50, US-6, US-95	65																		65
UT	I-40, US-89, UT-20, I-15, UT-56, NV-319, US-93, NV-375, US-6, US-95			-							-									-
UT	I-80, US-93, US-6, US-95		35	3	-	4	-									3	1	1		47
UT	I-70, I-15, US-95 (LAS VEGAS INTERCHANGE)	-																		-
UT	I-80, I-15, US-95 (LAS VEGAS INTERCHANGE)		-	-	-	-	-													-
CA	I-40, US-95, NV-164, I-15, CA-127, NV-373, US-95		-	-	-	-	-			1	2									13
CA	I-15, CA-127, NV-373, US-95											7	-							7
CA	I-580, I-5, CA-46, CA-99, CA-58, I-15, CA-127, NV-373, US-95							-	-											-
CA	I-40, US-95, NV-164, I-15, NV-160, US-95		-	3	2	-	-			1	11			2	1					125
CA	I-40, US-95, I-515, NV-146, I-15, NV-160, US-95		-	-	-	-	-			-	-									-
CA	I-15, NV-160, US-95											-	-							-
CA	I-15, CA-127, CA-178, NV-372, NV-160, US-95											-	2							2
CA	I-580, I-5, CA-46, CA-99, CA-58, I-15, CA-127, CA-178, NV-372, NV-160, US-95							-	6											6
CA	I-40, US-95, NV-164, I-15, CA-127, CA-178, NV-372, NV-160, US-95		-	-	-	-	-		1	-	-									2
CA	I-40, US-95, NV-164, I-15, NV-160, NV-372, CA-178, CA-127, NV-373, US-95					-	-													2
CA	I-580, CA-132, I-5, I-80, US-50, US-95							-	24											24
CA	I-580, I-5, I-80, US-95							-	9											9
CA	I-80, ALT-50, US-9 (NEW)								16											16
CA	I-80, US-95 (NEW)								4											4
CA	I-80, US-50, CA-99, CA-88, US-95, CA-208, US-ALT-95, US-95 (NEW)								1											1
CA	I-580, I-5, CA-99, CA-58, I-15, US-95 (LAS VEGAS INTERCHANGE)							-	-											-
CA	I-15, US-95 (LAS VEGAS INTERCHANGE)											-	-							-
CA	I-40, US-93, US-95 (LAS VEGAS INTERCHANGE AND HOOVER DAM)	-	-	-	-	-	-			-	-									-
NV	I-15, NV-160, US-95 (INTRASTATE NEVADA)																		1	1
	GENERATORS TOTALS>>>	65	35	6	2	4	-	-	61	2	13	7	2	2	1	3	1	1	1	324

NTS WASTE ROUTE DRIVER'S SURVEY REPORT

FY2001 YEAR TO DATE TOTALS AS OF 9/30/2001

<<<< ENTRY STATE	LOW LEVEL WASTE ROUTE	ROCKY FLATS (CO)	FERMCO (OH)	MOUND (OH)	RMI-EARTHLINE (OH)	OAK RIDGE NATIONAL LAB (TN)	OAK RIDGE NATIONAL LAB Y-12 (TN)	BRITISH NUCLEAR FUELS (TN)	LOVELACE LAB (NM)	SANDIA NATIONAL LAB (NM)	GENERAL ATOMICS (CA)	BOEING-ROCKETDYNE (CA)	PANTEX (TX)	ABERDEEN PROVING GROUNDS (MD)	ABERDEEN PROVING GROUNDS (INEEL)	SAVANNAH RIVER SITE (SC)	WEST VALLEY (NY)	IT LAS VEGAS (NV)	<<<< ROUTE TOTAL
	UTAH ENTRY																		
UT	I-70, US-50, I-15, US-50, US-6-50, US-6, US-95	195																	195
UT	I-80, US-93, US-6, US-95 (NORTHERN ROUTE 1)	46	71	8	0	35	0	0							11	1	1		173
UT	I-40, US-89, UT-20, I-15, UT-56, NV-319, US-93, NV-375, US-6, US-95			1						1									2
UT	I-70, I-15, US-95 (LAS VEGAS INTERCHANGE)	6																	6
UT	I-80, I-15, US-95 (LAS VEGAS INTERCHANGE)	0	0	0	1	0	0	0											1
	CALIFORNIA ENTRY																		
	SOUTHERN CALIFORNIA ROUTES																		
CA	I-40, US-95, NV-164, I-15, CA-127, NV-373, US-95	0	27	10	0	0	0	15	1	2									57
CA	I-15, CA-127, NV-373, US-95										74	0							74
CA	I-580, I-5, CA-46, CA-99, CA-58, I-15, CA-127, NV-373, US-95																		9
CA	I-40, US-95, NV-164, I-15, NV-160, US-95	13	62	10	5	0	2	132	1	13			3	1					242
CA	I-40, US-95, I-515, NV-146, I-15, NV-160, US-95	0	0	0	0	0	0		0	4									4
CA	I-15, NV-160, US-95										3	0							3
CA	I-15, CA-127, CA-178, NV-372, NV-160, US-95										58	3							61
CA	I-580, I-5, CA-46, CA-99, CA-58, I-15, CA-127, CA-178, NV-372, NV-160, US-95																		13
CA	I-40, US-95, NV-164, I-15, NV-160, NV-372, CA-178, CA-127, NV-373, US-95					0	0	3											3
CA	I-40, US-95, NV-164, I-15, CA-127, CA-178, NV-372, NV-160, US-95	0	0	0	0	0	0	2	0	1									4
CA	I-580, I-5, CA-99, CA-58, I-15, US-95 (LAS VEGAS INTERCHANGE)																		2
CA	I-15, US-95 (LAS VEGAS INTERCHANGE)										0	0							0
	NORTHERN CALIFORNIA ROUTES																		
CA	I-580, CA-132, I-5, I-80, US-50, US-95																		25
CA	I-580, I-5, I-80, US-95																		10
CA	I-80, ALT-50, US-9 (NEW)																		16
CA	I-80, US-95 (NEW)																		4
CA	I-80, US-50, CA-99, CA-88, US-95, CA-208, US-ALT-95, US-95																		1
	ARIZONA ENTRY																		
CA	I-40, US-93, US-95 (LAS VEGAS INTERCHANGE AND HOOVER DAM)	0	0	1	0	0	0	0	0	0									1
	NEVADA INTRASTATE																		
NV	I-15, NV-160, US-95																	1	1
	GENERATORS TOTALS>>>>	**260**	**160**	**30**	**6**	**35**	**2**	**152**	**2**	**21**	**135**	**3**	**3**	**1**	**11**	**1**	**1**	**1**	**907**


Gate
100
NEVADA TEST SITE
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TRUCK PARKING
BACK IN ONLY

TRUCK
PARKING
ONLY

FY 2001 ACTUALS (as of 9/30/2001)	
FIELD OFFICE	VOLUME SHIPPED ft3
ABERDEEN	8,034
ALBUEQUERQUE	19,262
CHICAGO	-
IDAHO	-
NEVADA	13,584
OAKLAND	110,128
GA Corp.	15,397
OAK RIDGE	252,851
OHIO -100k	320,363
ROCKY FLATS +100k	490,528
SAVANNAH RIVER	-
CUMULATIVE TOTAL	1,230,147

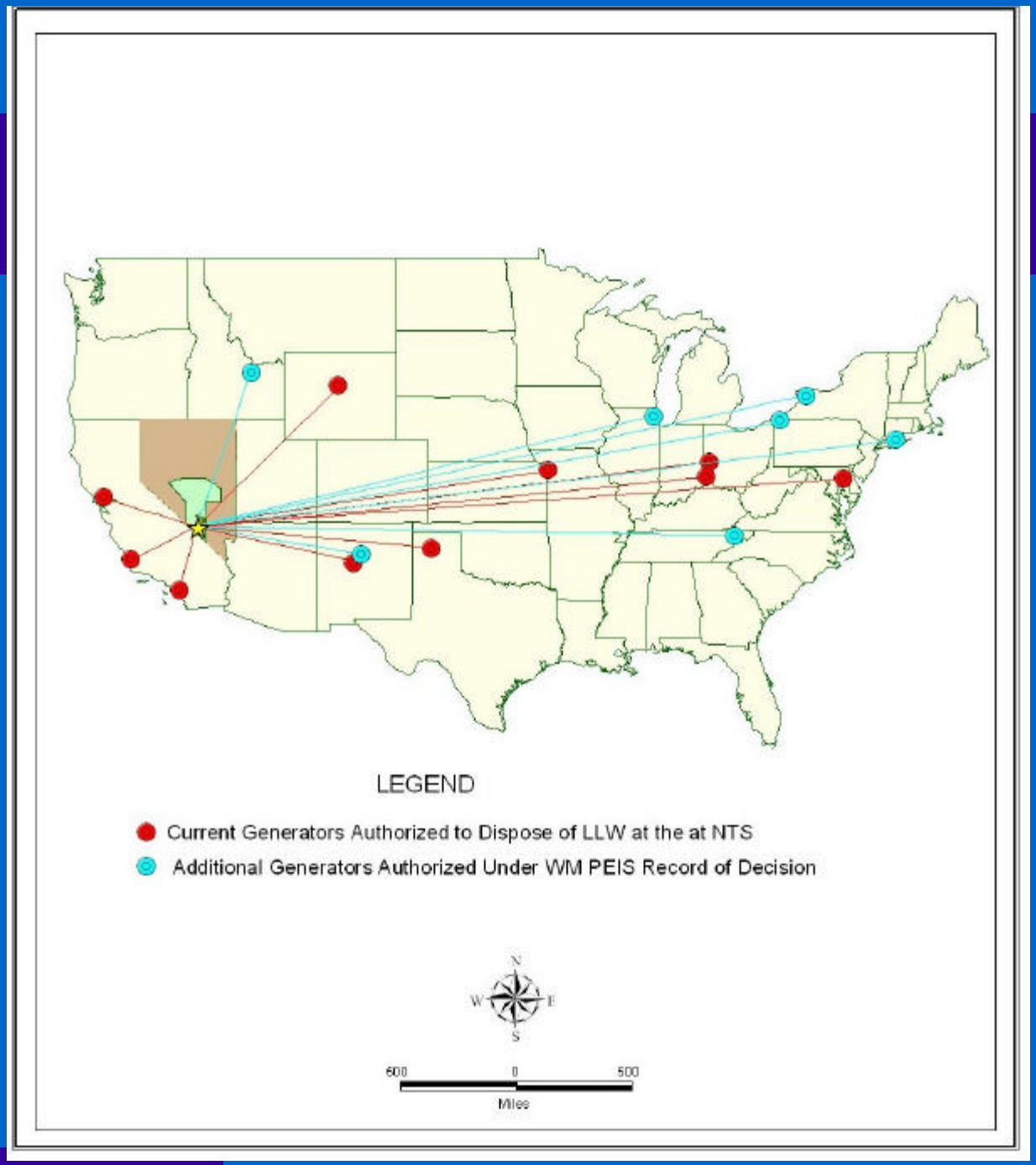
FY 2002 FORECAST	
FIELD OFFICE	TOTAL (ft3)
ABERDEEN	**10,000**
ALBUQUERQUE	**14,272**
CHICAGO	**22,390**
IDAHO	**1,766**
NEVADA	**8,739**
OAKLAND	**18,500**
GA Corp.	**9,000**
OAK RIDGE	**650,493**
OHIO	**296,900**
ROCKY FLATS	**600,000**
SAVANNAH RIVER	**19,200**
CUMULATIVE TOTAL	**1,651,260**

U.S. Highway 95 Through the Town of Beatty

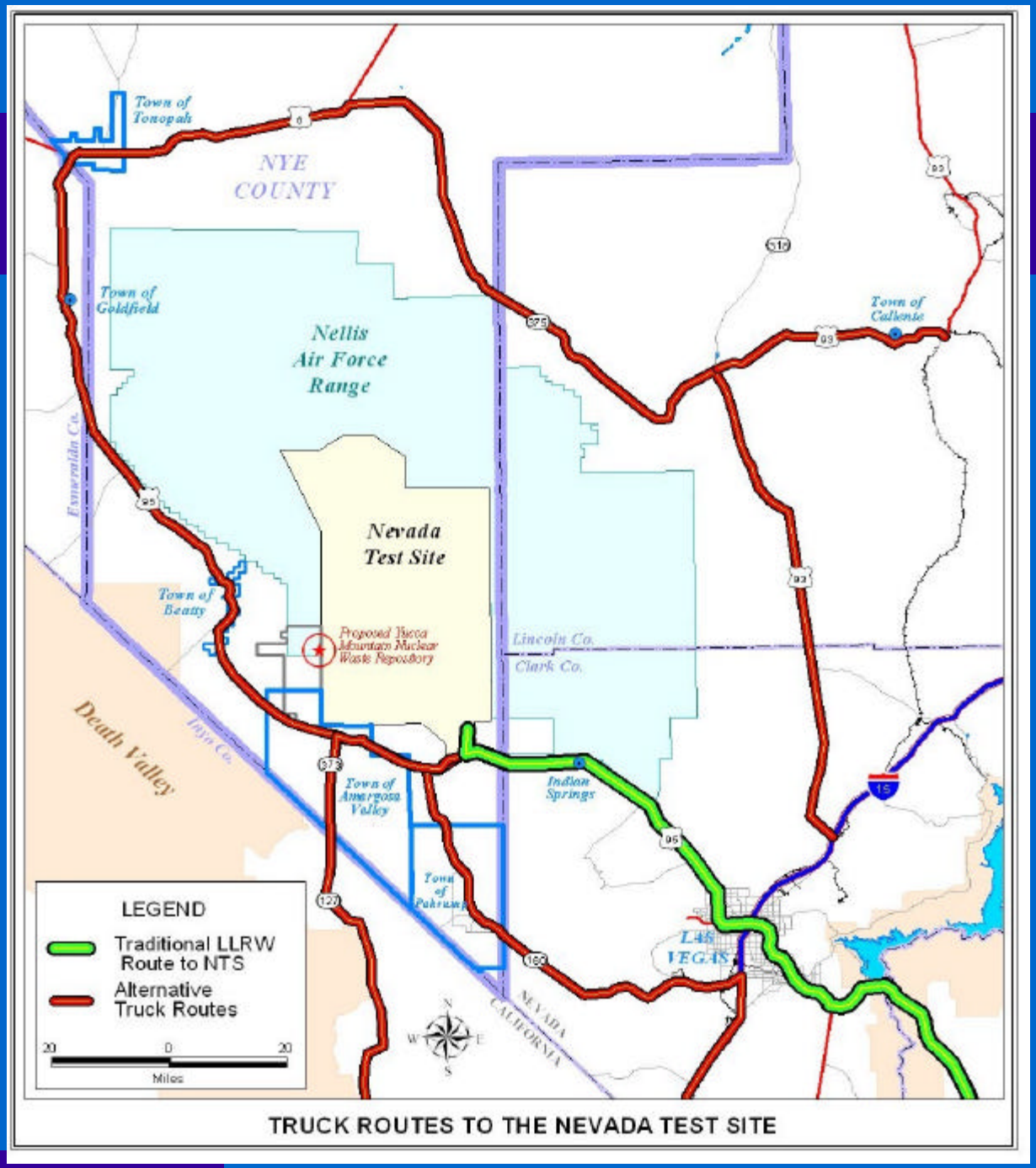
U.S. Highway 95 Rural Communities

U.S. Highway 95 Through the Town of Goldfield

DOE Low-Level Waste Transfer



Truck Routes to the Nevada Test Site (NTS)



James M. Williams
838 Milwaukee Street, Denver, CO 80206-3904—(303) 388-2185—jimwilliams@rmi.net

MEMORANDUM

TO: Les W. Bradshaw, Nye NWRPO

FROM: J.M. Williams

DATE: October 7, 2001

SUBJECT: NTS LLW Shipments: Talking Points: W.B.S. #1.2.6

A while back, you asked me to prepare some talking points for a 10-minute talk at the October 11 meeting of the NNSA Transportation Working Group. The agenda says the working title is "Impact of Routing Decisions on Rural Counties."

I have taken the occasion to update (through 3rd Quarter FFY'01) our databases on LLW shipments to NTS, and (more painstakingly) shipment routes and mileage. Here are 7 points that could be made within the scope of 10 minutes:

1. Shipments for disposal at NTS have increased in FY 2001. Through the third quarter, the number of shipments has been 53% above that in FFY 2000, the shipment volume has been 56% higher, and the curie content has been 350% higher.[1]

2. Though we do not yet have data for the 4th quarter of FFY'01, the major shippers to NTS have already exceeded their shipments in FFY'00: Rocky Flats: from 155 shipments in FFY'00 to 197 through the 3rd quarter of FFY'01; Fernald: from 97 to 125; General Atomics: from 57 to 128.

3. The greatest curie content continues to come from Mound (OH) and Lawrence Livermore (CA). So far in FFY'01, these two generators account for 7.4% of the shipments and 99% of the curie content shipped to NTS.

4. In 1999, DOE/NV established a policy to "encourage" its shippers to avoid the Hoover Dam and the Las Vegas Valley, and the traditional shipment routes using interstate highways and the 4-lane segment of US-95. Since the 4th quarter of FFY'99, DOE/NV has identified the shipment routes used for most[2] shipments to NTS.

   This data shows that NTS shippers have used 18 different routes[3] through 8 of the 10 AULGs, plus 4 other Nevada counties.[4] The average mileage per shipment in

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[1] Due to shipments from Mound, a high-curie shipper to NTS.
[2] Routes for 4.7% of shipments are not reported.
[3] Some differ in only one or two segments.

these counties has doubled, and, in the last two quarters, 95% of that mileage has been on 2-lane roads—not interstate highways or 4-lane divided highways such as the segment of US-95 south of Mercury.

5. The distribution of the shipment mileage among the eleven counties has varied from quarter to quarter. In the most recent quarter, 54.4% was in Nye County, 19.5% in White Pine, 8.8% in Clark, and 7.0% in Esmeralda, 5.4% in Elko, and 4.7% in Inyo.

   Of the mileage on 2-lane roads, 56.7% was in Nye County, 20.5% in White Pine, 7.4% in Esmeralda, 5.5% in Elko, 4.9% in Inyo, and 4.7% in Clark.

6. After establishing the diversion policy, DOE/NV instituted an additional ($0.50 per cubic meter?) emergency fee on NTS shipments. In effect, this fee acknowledges that its policy involves a transfer of risk onto rural counties with sub-par radiological emergency management/response services.

7. The receipts from the fee are provided to the state for allocation, and the state (in its wisdom) has devised an allocation formula. The allocation bears little resemblance to the distribution of shipment mileage due to the DOE policy to discourage shipment through the Las Vegas Valley.

JMW

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[4] The other counties are Elko, Washoe, Storey, and Lyon. The AULGs not included are Lander and Eureka.

LOW-LEVEL NUCLEAR WASTE DISPOSAL AT NTS: FY 1988- FY 2001

	State	Shipm	Curies	Volume..... CuFt	CuMtr	Weight..... Pounds	Kilog	# Pkgs	Pounds / CuFt	Kilog /CuMtr	Pounds / Ship	Curies / Ship	# Pkgs / Ship
FY 1988:	NA	925	1002519	932988	26987	34748164	15761579	32141	37	584	37566	1084	34.7
FY 1989:	NA	1030	17081	1019718	28905	37679235	17089687	19767	37	591	36582	17	19.2
FY 1990:	NA	315	54319	408844	11577	11304050	5127830	5707	28	443	35886	172	18.1
FY 1991:	NA	212	0	339600	9616	7575600	3436500	912	22	357	35734	0	4.3
FY 1992:	NA	682	71	865789	24515	24023885	10903491	4491	28	445	35226	0	6.6
FY 1993:	NA	592	29655	657045	18605	21564788	9781623	5030	33	526	36427	50	8.5
FY 1994:	NA	751	37704	753157	21327	26754403	12135593	6696	36	569	35625	50	8.9
FY 1995:	NA	917	14605	884667	25051	32820676	14884209	6983	37	594	35791	16	7.6
FY 1996:	NA	531	6073	449145	12720	18289940	8296174	6776	41	652	34444	11	12.8
FY 1997:	NA	754	279018	848539	24038	34310694	15570146	6360	40	648	45505	370	8.4
FY 1998:	NA	338	34014	387395	11080	11786013	5515751	4518	30	498	34870	101	13.4
FY 1999:	NA	673	1448656	610879	17279	17936140	8128574	6954	29	470	26651	2153	10.3
FY 2000:	NA	518	33349	644712	18262	16773409	7582427	5703	26	415	32381	64	11.0
FY 2001:	NA	596	112317	753680	21368	22014461	9970439	4990	29	467	36937	188	8.4

CUMULATIVE LLW DISPOSAL AT NTS: FY 1988- FY 2001

CUMUL FY	State	Shipm	Curies	Volume..... CuFt	CuMtr	Weight..... 000 Lbs	000 Kg	# Pkgs
FY 1988:	NA	925	1002519	932988	26987	34748	15762	32141
FY 1989:	NA	1955	1019600	1952706	55892	72427	32851	51908
FY 1990:	NA	2270	1073920	2361550	67469	83731	37979	57615
FY 1991:	NA	2482	1073920	2701150	77085	91307	41416	58527
FY 1992:	NA	3164	1073991	3566939	101600	115331	52319	63018
FY 1993:	NA	3756	1103646	4223983	120205	136896	62101	68048
FY 1994:	NA	4507	1141350	4977140	141532	163650	74236	74744
FY 1995:	NA	5424	1155956	5861807	166583	196471	89121	81727
FY 1996:	NA	5955	1162029	6310952	179303	214761	97417	88503
FY 1997:	NA	6709	1441047	7159491	203341	249071	112987	94863
FY 1998:	NA	7047	1475061	7546886	214421	260857	118503	99381
FY 1999:	NA	7720	2923717	8157765	231700	278794	126631	106335
FY 2000:	NA	8238	2957066	8802477	249962	295567	134214	112038
FY 2001:	NA	8834	3069383	9556157	271330	317581	144184	117028

OFFSITE LLW SHIPMENT FOR AT NTS: FY 1988- FY 2001

	State	Shipm	Curies	Volume..... CuFt	CuMtr	Weight..... Pounds	Kilog	# Pkgs	Pounds / CuFt	Kilog /CuMtr	Pounds / Ship	Curies / Ship	# Pkgs / Ship
FY 1988:	NA	925	1002519	932988	26987	34748164	15761579	32141	13	214	24547	0	55.3
FY 1989:	NA	1030	17081	1019718	28905	37679235	17089687	19767	NA	NA	NA	NA	NA
FY 1990:	NA	315	54319	408844	11577	11304050	5127830	5707	NA	NA	NA	NA	NA
FY 1991:	NA	212	0	339600	9616	7575600	3436500	912	NA	NA	NA	NA	NA
FY 1992:	NA	682	71	865789	24515	24023885	10903491	4491	39	621	32054	0	53.5
FY 1993:	NA	587	29655	655039	18549	21532059	9766778	5010	23	365	3049	0	1.3
FY 1994:	NA	743	37704	749548	21225	26690822	12106753	6660	11	17	7336	0	47.0
FY 1995:	NA	915	14605	875835	24801	32392664	14690066	6910	17	270	16784	12	11.6
FY 1996:	NA	392	6067	393599	11147	13938179	6322249	4528	0	0	0	0	0.0
FY 1997:	NA	521	279010	690278	19569	21802779	9881970	6042	0	0	0	0	0.0
FY 1998:	NA	313	33823	357196	10082	9398002	4247048	4385	79	1272	52214	2	4.9
FY 1999:	NA	619	1448547	575676	16283	15166125	6867936	6670	79	1272	44638	0	2.8
FY 2000:	NA	504	33348	637685	18063	16234478	7336889	5643	26	415	32381	64	11.0
FY 2001:	NA	574	112276	736256	20873	21187983	9593972	4722	29	467	36937	188	8.4
					75144								

CUMULATIVE OFFSITE SHIPMENT OF LLW FOR DISPOSAL AT NTS: FY 1988- FY 2001

CUMUL FY	State	Shipm	Curies	Volume..... CuFt	CuMtr	Weight..... 000 Lbs	000 Kg	# Pkgs
FY 1988:	NA	925	1002519	932988	26987	34748	15762	32141
FY 1989:	NA	1955	1019600	1952706	55892	72427	32851	51908
FY 1990:	NA	2270	1073920	2361550	67469	83731	37979	57615
FY 1991:	NA	2482	1073920	2701150	77085	91307	41416	58527
FY 1992:	NA	3164	1073991	3566939	101600	115331	52319	63018
FY 1993:	NA	3751	1103646	4221978	120148	136863	62086	68028
FY 1994:	NA	4494	1141350	4971526	141373	163554	74193	74688
FY 1995:	NA	5409	1155955	5847361	166174	195946	88883	81598
FY 1996:	NA	5801	1162023	6240960	177321	209885	95205	86126
FY 1997:	NA	6322	1441033	6931238	196890	231687	105087	92168
FY 1998:	NA	6635	1474856	7288434	206973	241085	109334	96553
FY 1999:	NA	7254	2923403	7864110	223255	256252	116202	103223
FY 2000:	NA	7758	2956751	8501795	241318	272486	123539	108866
FY 2001:	NA	8332	3069027	9238051	262191	293674	133133	113588

LOW-LEVEL NUCLEAR WASTE DISPOSAL AT NTS

	State	Shipm	Curies	Volume..... CuFt	CuMtr	Weight..... Pounds	Kilog	# Pkgs
1987 & before	NA	10578	3675368	11442822	324898	380281306	172650156	140133
1988 & after	NA	8834	3069383	9556157	271330	317581458	144184022	117028
Total at NTS	NA	19412	6744751	20998979	596228	697862765	316834178	257161

Source: 1987 & before....from IDB and LLWVOL2:
1988 & after.....from DOE/NV quarterly reports

LOW-LEVEL NUCLEAR WASTE DISPOSAL AT NTS: FY 2000
BY QUARTER, GENERATOR, WASTE SHIPMENT CHARACTERISTICS

	State	Shipm	Curies	Volume..... CuFt	CuMtr	Weight..... Pounds	Kilog	# Pkgs	Pounds / CuFt	Kilog /CuMtr	Pounds / Ship	Curies / Ship	# Pkgs / Ship @5
BY FISCAL QUARTER:	NA	518	33349.1	644712	18262	16773409	7582427	5703	26.0	415	32381	64.4	11.0
1st Qtr	NA	83	4291.5	101690	2874	2631531	1191229	1020	25.9	414	31705	51.7	12.3
2nd Qtr	NA	117	11439.3	176789	5005	4382515	1986862	2256	24.8	397	37457	97.8	19.3
3rd Qtr	NA	155	295.3	179122	5083	4576118	2068053	1285	25.5	407	29523	1.9	8.3
4th Qtr	NA	163	17323.0	187111	5301	5183245	2336282	1142	27.7	441	31799	106.3	7.0
		518	33349.1	644712	18262	16773409	7582427	5703	26.0	415	32381	64.4	11.0
BY WASTE GENERATOR:													
A.Gnrl Atomics	CA	57	1.4	45610	1290	1570054	711277	459	34.4	551	27545	0.0	8.1
B.Sandia NL	CA	1	1.0	515	15	12252	5553	7	23.8	380	12252	1.0	7.0
C.IT CORP (DOE/NV)	NV	2	0.0	253	7	3272	1564	26	12.9	219	1636	0.0	13.0
D.Bechtel/NV	NV	12	1.0	6774	192	535660	243975	34	79.1	1272	44638	0.1	2.8
E.Sandia NL+LRRI	NM	10	39.5	10650	303	290818	132492	234	27.3	438	29082	3.9	23.4
F.Pantex Plant	TX	24	0.1	15730	445	211755	96037	24	13.5	216	8823	0.0	1.0
G.Mound Appl Tech	OH	56	12841.0	79600	2255	1295586	587112	891	16.3	260	23135	229.3	15.9
H.Fernald Env Mgt	OH	97	64.2	130250	3693	4289119	1945491	345	32.9	527	44218	0.7	3.6
I.Aberdeen	MD	0	0.0	0	0	0	0	0	0.0	0	0	0.0	0.0
J.Rocky Flats	CO	155	12.4	305500	8650	7242812	3285005	2765	23.7	380	46728	0.1	17.8
K.RMI Extru Plant	OH	0	0.0	0	0	0	0	0	0.0	0	0	0.0	0.0
L.LL Natl Labs	CA	32	19838.2	31880	904	823633	374266	822	25.8	414	25739	619.9	25.7
M.Rockwell(Canoga Pk	CA	12	0.5	7030	199	317359	143726	36	45.1	722	26447	0.0	3.0
N.Oak Ridge NL	TN	60	550.0	10920	309	181090	55929	60	16.6	181	3018	9.2	1.0

LOW-LEVEL NUCLEAR WASTE DISPOSAL AT NTS: FY 2001
BY QUARTER, GENERATOR, WASTE SHIPMENT CHARACTERISTICS

	State	Shipm	Curies	Volume..... CuFt	CuMtr	Weight..... Pounds	Kilog	# Pkgs	Pounds / CuFt	Kilog /CuMtr	Pounds / Ship	Curies / Ship	# Pk / Sh
BY FISCAL QUARTER:	NA	596	112316.8	753680	21368	22014461	9970439	4990	29.2	466.6	36937	188.5	8
1st Qtr	NA	143	712.1	182054	5149	4901089	2220909	1755	26.9	431.3	34273	5.0	12
2nd Qtr	NA	168	9891.3	222469	6311	6140868	2787551	1254	27.6	441.7	36553	58.9	7
3rd Qtr	NA	285	101713.3	349157	9907	10972504	4961979	1981	31.4	500.9	38500	356.9	7
4th Qtr	NA	0	0.0	0	0	0	0	0					
		53.4%	349.1%	55.9%	56.0%	75.0%	75.3%	16.7%					
		596	112316.8	753680	21368	22014461	9970439	4990	29.2	466.6	36937	188.5	8
BY WASTE GENERATOR:													
A.Gnrl Atomics	CA	128	0.1	70540	1994	2428231	1099447	402	34.4	551.4	18971	0.0	3
B.Sandia NL	CA	1	0.0	537	15	12776	5781	1	23.8	380.3	12776	0.0	1
C.IT CORP (DOE/NV)	NV	1	0.0	184	5	2380	1139	23	12.9	219.0	2380	0.0	23
D.Bechtel/NV	NV	9	17.9	11270	319	891185	405649	44	79.1	1271.6	99021	2.0	4
E.Sandia NL+LRRI	NM	8	114.4	6630	188	181044	82315	148	27.3	437.8	22631	14.3	18
F.Pantex Plant	TX	1	0.6	1700	48	22885	10381	37	13.5	215.8	22885	0.6	37
G.Mound Appl Tech	OH	24	97644.1	47800	1355	778003	352788	372	16.3	260.4	32417	4068.5	15
H.Fernald Env Mgt	OH	125	48.1	190700	5402	6279731	2845570	302	32.9	526.8	50238	0.4	2
I.Aberdeen	MD	8	21.2	6010	170	444336	201667	68	73.9	1186.3	55542	2.7	8
J.Rocky Flats	CO	197	32.5	345000	9790	8179281	3717942	2605	23.7	379.8	41519	0.2	13
K.RMI Extru Plant	OH	4	0.2	1929	55	133585	60500	160	69.3	1108.1	33396	0.1	40
L.LL Natl Labs	CA	20	14033.0	16040	455	414400	188147	318	25.8	413.9	20720	701.7	15
M.Rockwell(Canoga Pk	CA	37	0.7	46530	1322	2100526	953918	451	45.1	721.5	56771	0.0	12
N.ORR/ORNL + BNF	TN	33	404.0	8810	250	146099	45196	59	16.6	181.0	4427	12.2	1

LOW-LEVEL RADIOACTIVE WASTE SHIPMENTS TO NTS
SUMMARY SHIPMENTS, BY OFFSITE ORIGIN, ROUTE, QUARTER

	Route	No.Shipments (Route Reported) SubTot	'99 #4	'00 #1	'00 #2	'00 #3	'00 #4	'01 #1	'01 #2	'01 #3	'01 #4	Route Description: Segments
TOTAL: BY ROUTE	ALL	1307	239	83	112	147	143	134	168	281	0	See Route Details
	SO.RTS	637	137	53	73	30	28	78	102	136	0	See Route Details
	So.#1	269	71	41	28	13	16	27	37	36	0	I-15 CA-127 NV-373 US-95
	So.#2	133	15	0	2	0	4	38	23	51	0	I-40 US-95 NV-164 I-15 NV-160 US-95
	So.#3	72	19	7	3	3	4	3	27	6	0	I-40 US-95 NV-164 I-15 CA-127 NV-373 US-95
	So.#4	29	9	0	15	0	0	1	0	4	0	I-40 US-93 US-95 (Hoover Dam & Spaghetti Bowl)
	So.#5	37	5	0	24	1	3	4	0	0	0	I-40 US-95 I-515 NV-146 I-15 NV-160 US-95
	So.#6	35	17	0	0	12	1	5	0	0	0	I-40 US-68 US-95 NV-164 I-15 NV-160 US-95
	So.#7	2	1	0	0	1	0	0	0	0	0	I-40 US-95 (Thru Spaghetti Bowl)
	So.#8	54	0	5	1	0	0	0	12	36	0	I-15 CA-127 CA-178 NV-372 NV-160 US-95
	So.#9	3	0	0	0	0	0	0	2	1	0	I-15 NV-160 US-95
	So.#10	2	0	0	0	0	0	0	1	1	0	NV-319 US-93 NV-375 NV-6 NV-6
	So.#11	1	0	0	0	0	0	0	0	1	0	I-15 NV-160 NV-372 CA-178 CA-127 NV-373 US-95
	NO.RTS	514	76	5	1	64	109	50	65	144	0	See Route Details
	No.#1	371	76	4	0	60	105	49	1	76	0	I-80 US-93 US-6 US-95
	No.#2	5	0	0	0	1	3	1	0	0	0	I-580 I-205 CA-99 CA-58 I-15 US-95 (Thru S.Bo
	No.#3	7	0	1	1	3	1	0	1	0	0	I-580 I-205 I-5 I-80 US-95
	No.#4	1	0	0	0	0	0	0	1	0	0	I-580 I-205 I-5 I-80 US-50 US-95
	No.#5	130	0	0	0	0	0	0	62	68	0	US-6/50 US-6 US-95
	LV RTS	156	26	25	38	53	6	6	1	1	0	See Route Details
	LV #1	122	22	22	31	39	1	6	1	0	0	I-80 I-15 US-95 (Thru Spaghetti Bowl)
	LV #2	34	4	3	7	14	5	0	0	1	0	I-15 Chey-Crg US-95
TOTAL: BY ORIGIN	ALL	1307	239	83	112	147	143	134	168	281	0	
FERMCO (OH)	ALL	271	49	1	12	35	49	30	42	53	0	
GNRL ATOMICS(CA)	ALL	246	61	34	11	5	7	15	47	66	0	
LLNL (CA)	ALL	46	1	6	9	4	7	7	7	5	0	
LOVELACE (NM)	ALL	1	0	0	0	0	1	0	0	0	0	
MOUND (OH)	ALL	142	64	10	8	19	17	11	5	8	0	
PANTEX (TX)	ALL	29	4	0	20	0	4	0	0	1	0	
ROCKETDYNE (CA)	ALL	21	8	7	1	4	0	1	0	0	0	
RMI-Earthline(OH)	ALL	27	15	0	0	0	0	2	2	8	0	
ROCKY FLATS (CO)	ALL	372	31	25	46	53	22	64	63	68	0	
SANDIA NL (CA)	ALL	5	1	0	1	0	0	0	2	1	0	
SANDIA NL (NM)	ALL	20	5	0	4	2	3	4	0	2	0	
OAK RIDGE (TN)	ALL	91	0	0	0	25	33	0	0	33	0	
BRITISH NF (TN)	ALL	36	0	0	0	0	0	0	0	36	0	

NTSROUTES

LOW-LEVEL RADIOACTIVE WASTE SHIPMENTS TO NTS
SUMMARY SHIPMENTS, BY OFFSITE ORIGIN, ROUTE, QUARTER

	Route	Shipment Volume (cu ft) SubTot	'99 #4	'00 #1	'00 #2	'00 #3	'00 #4	'01 #1	'01 #2	'01 #3	'01 #4
TOTAL: BY ROUTE	ALL	1660361	280379	101596	176560	177810	181790	176830	222469	342927	0
	SO.RTS	621720	94569	41775	94226	29828	35736	83742	106230	135612	0
	So.#1	202264	35100	28039	41263	12181	17952	23450	20232	24047	0
	So.#2	178911	13074	0	4055	0	6447	43344	39413	72577	0
	So.#3	99421	16199	11667	6083	3237	6447	5073	39664	11052	0
	So.#4	43884	11147	0	28262	0	0	1691	0	2784	0
	So.#5	23574	3704	0	13325	1205	3610	1730	0	0	0
	So.#6	36417	14493	0	0	12189	1280	8455	0	0	0
	So.#7	1868	853	0	0	1016	0	0	0	0	0
	So.#8	30283	0	2069	1239	0	0	0	5827	21147	0
	So.#9	1662	0	0	0	0	0	0	1094	568	0
	So.#10	2175	0	0	0	0	0	0	0	2175	0
	So.#11	1261	0	0	0	0	0	0	0	1261	0
	NO.RTS	726488	141747	6765	515	41982	133127	83992	111583	206778	0
	No.#1	475998	141747	6351	0	35982	126098	82682	2360	80778	0
	No.#2	8081	0	0	0	1500	5271	1310	0	0	0
	No.#3	7670	0	414	515	4500	1757	0	484	0	0
	No.#4	484	0	0	0	0	0	0	484	0	0
	No.#5	234254	0	0	0	0	0	0	108254	126000	0
	LV RTS	389484	44062	53056	81819	106000	12927	9096	1746	80778	0
	LV #1	239311	34878	46689	66747	78000	2155	9096	1746	0	0
	LV #2	69396	9184	6367	15072	28000	10773	0	0	0	0
TOTAL: BY ORIGIN	ALL	1094965	280379	101596	176560	177810	181790	176830	222469	342927	0
FERMCO (OH)	ALL	265803	106766	1351	24326	30900	73760	28700	67900	94100	0
GNRL ATOMICS(CA)	ALL	83535	30642	25581	11362	4700	3910	7340	25700	37500	0
LLNL (CA)	ALL	42446	1345	2483	11148	6000	12300	9170	3390	3480	0
LOVELACE (NM)	ALL	1280	0	0	0	0	1280	0	0	0	0
MOUND (OH)	ALL	153603	55416	16667	16220	19300	27400	18600	11800	17400	0
PANTEX (TX)	ALL	20933	5203	0	9970	0	5760	0	0	1700	0
ROCKETDYNE (CA)	ALL	10704	2546	2458	620	3950	0	1130	0	0	0
RMI-Earthline(OH)	ALL	8843	7683	0	0	0	0	1160	769	6010	0
ROCKY FLATS (CO)	ALL	481007	66507	53056	99044	106000	47400	109000	110000	126000	0
SANDIA NL (CA)	ALL	1082	567	0	515	0	0	0	0	537	0
SANDIA NL (NM)	ALL	14809	3704	0	3355	2410	3610	1730	2910	1990	0
OAK RIDGE (TN)	ALL	10920	0	0	0	4550	6370	0	0	8810	0
BRITISH NF (TN)	ALL	0	0	0	0	0	0	0	0	45400	0

LOW-LEVEL RADIOACTIVE WASTE SHIPMENTS TO NTS
TOTAL SHIPMENT MILES (REPORTED SHIPMENTS) BY COUNTY, QUARTER (000)

Estimated Total Shipment Miles (000)

County	SubTot	'99 #4	'00 #1	'00 #2	'00 #3	'00 #4	'01 #1	'01 #2	'01 #3	'01 #4
Church	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Clark	58.4	11.0	4.8	11.3	11.2	2.2	7.0	4.1	6.8	0.0
Elko	20.4	4.2	0.2	0.0	3.3	5.8	2.7	0.1	4.2	0.0
Esmer.	18.9	2.7	0.2	0.0	2.3	3.8	1.8	2.6	5.5	0.0
Inyo	21.1	5.0	2.9	1.8	0.9	1.2	1.7	4.0	3.7	0.0
Lincoln	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Lyon	0.4	0.0	0.1	0.1	0.2	0.1	0.0	0.1	0.0	0.0
Mineral	0.7	0.0	0.1	0.1	0.3	0.1	0.0	0.2	0.0	0.0
Nye	158.4	25.9	3.6	2.7	18.0	29.7	16.5	19.6	42.5	0.0
Storey	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
Washoe	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Wht.Pine	44.9	5.3	0.3	0.0	4.2	7.4	3.4	9.1	15.2	0.0
Subtotal	324.0	54.2	12.1	15.9	40.4	50.3	33.1	40.0	78.1	0.0

% TOTAL SHIPMENT MILES, BY COUNTY, QUARTER

% Total Est. Road Shipment Miles (Route Reported)

County	SubTot	'99 #4	'00 #1	'00 #2	'00 #3	'00 #4	'01 #1	'01 #2	'01 #3	'01 #4
Church	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	NA
Clark	18.0%	20.3%	39.5%	70.8%	27.6%	4.4%	21.3%	10.2%	8.8%	NA
Elko	6.3%	7.7%	1.8%	0.0%	8.2%	11.5%	8.1%	0.1%	5.4%	NA
Esmer.	5.8%	5.0%	1.5%	0.2%	5.6%	7.6%	5.3%	6.6%	7.0%	NA
Inyo	6.5%	9.3%	23.8%	11.1%	2.3%	2.3%	5.1%	10.0%	4.7%	NA
Lincoln	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.2%	NA
Lyon	0.1%	0.0%	0.4%	0.3%	0.4%	0.1%	0.0%	0.1%	0.0%	NA
Mineral	0.2%	0.0%	0.8%	0.6%	0.7%	0.2%	0.0%	0.4%	0.0%	NA
Nye	48.9%	47.9%	29.5%	16.7%	44.5%	59.2%	49.7%	49.0%	54.4%	NA
Storey	0.1%	0.0%	0.3%	0.2%	0.2%	0.1%	0.0%	0.1%	0.0%	NA
Washoe	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	0.1%	0.0%	NA
Wht.Pine	13.9%	9.8%	2.3%	0.0%	10.4%	14.6%	10.4%	22.8%	19.5%	NA
Subtotal	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	NA

2-LANE ROAD SHIPMENT MILES, BY COUNTY, QUARTER (000)

Est. 2-Lane Road Shipment Miles (000)

County	SubTot	'99 #4	'00 #1	'00 #2	'00 #3	'00 #4	'01 #1	'01 #2	'01 #3	'01 #4
Church	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Clark	17.4	3.6	0.3	2.2	1.2	0.7	3.3	2.5	3.5	0.0
Elko	20.0	4.1	0.2	0.0	3.2	5.7	2.6	0.1	4.1	0.0
Esmer.	18.9	2.7	0.2	0.0	2.3	3.8	1.8	2.6	5.5	0.0
Inyo	21.1	5.0	2.9	1.8	0.9	1.1	1.7	4.0	3.7	0.0
Lincoln	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Lyon	0.4	0.0	0.1	0.1	0.2	0.1	0.0	0.1	0.0	0.0
Mineral	0.7	0.0	0.1	0.1	0.3	0.1	0.0	0.2	0.0	0.0
Nye	155.8	25.5	3.4	2.1	17.5	29.6	16.1	19.5	42.2	0.0
Storey	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Washoe	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wht.Pine	44.9	5.3	0.3	0.0	4.2	7.4	3.4	9.1	15.2	0.0
Subtotal	279.6	46.2	7.3	6.3	29.8	48.5	28.9	38.3	74.3	0.0

% 2-LANE ROAD SHIPMENT MILES, BY COUNTY, QUARTER

% Total 2-Lane Road Shipment Miles (Route Reported)

County	SubTot	'99 #4	'00 #1	'00 #2	'00 #3	'00 #4	'01 #1	'01 #2	'01 #3	'01 #4
Church	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	NA
Clark	6.2%	7.8%	3.7%	35.4%	4.2%	1.5%	11.3%	6.7%	4.7%	NA
Elko	7.2%	8.9%	2.9%	0.0%	10.9%	11.7%	9.2%	0.1%	5.5%	NA
Esmer.	6.8%	5.9%	2.5%	0.6%	7.6%	7.9%	6.1%	6.9%	7.4%	NA
Inyo	7.5%	10.9%	39.1%	28.0%	3.0%	2.4%	5.8%	10.5%	4.9%	NA
Lincoln	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.2%	NA
Lyon	0.1%	0.0%	0.7%	0.8%	0.5%	0.1%	0.0%	0.1%	0.0%	NA
Mineral	0.3%	0.0%	1.3%	1.5%	0.9%	0.2%	0.0%	0.4%	0.0%	NA
Nye	55.7%	55.1%	46.0%	33.7%	58.7%	61.1%	55.8%	51.0%	56.7%	NA
Storey	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	NA
Washoe	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	NA
Wht.Pine	16.1%	11.5%	3.8%	0.0%	14.1%	15.2%	11.9%	23.8%	20.5%	NA
Subtotal	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	NA

2-LANE ROAD % TOTAL SHIPMENT MILES, BY COUNTY, QUARTER

2-Lane Road % Total Shipment Miles

County	SubTot	'99 #4	'00 #1	'00 #2	'00 #3	'00 #4	'01 #1	'01 #2	'01 #3	'01 #4
Church	100.0%	NA	NA	NA	NA	NA	NA	100.0%	NA	NA
Clark	29.8%	32.6%	5.7%	19.9%	11.2%	32.8%	46.1%	62.2%	51.4%	NA
Elko	98.2%	98.2%	98.2%	NA	98.2%	98.2%	98.2%	98.2%	98.2%	NA
Esmer.	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	NA
Inyo	99.8%	100.0%	100.0%	100.0%	99.2%	98.2%	99.6%	100.0%	100.0%	NA
Lincoln	100.0%	NA	NA	NA	NA	NA	NA	100.0%	100.0%	NA
Lyon	100.0%	NA	100.0%	100.0%	100.0%	100.0%	NA	100.0%	NA	NA
Mineral	100.0%	NA	100.0%	100.0%	100.0%	100.0%	NA	100.0%	NA	NA
Nye	98.4%	98.2%	95.1%	80.2%	97.4%	99.6%	97.9%	99.3%	99.2%	NA
Storey	0.0%	NA	0.0%	0.0%	0.0%	0.0%	NA	0.0%	NA	NA
Washoe	0.0%	NA	0.0%	0.0%	0.0%	0.0%	NA	0.0%	NA	NA
Wht.Pine	100.0%	100.0%	100.0%	NA	100.0%	100.0%	100.0%	100.0%	100.0%	NA
Subtotal	86.3%	85.3%	60.8%	39.7%	73.8%	96.4%	87.3%	95.5%	95.2%	NA

LOW-LEVEL WASTE OPERATIONS
FY 2001
WEEKLY WORKING REPORT *

		W/E: 23 Sep 01			FY 01 TOTAL			WMP TOTAL	
DOE APPROVED GENERATORS	Disposal Location	No. of Ship.	Volume (Cu Ft)	Volume (Cu. M.)	No. of Ship.	Volume (Cu. Ft.)	Volume (Cu. M.)	Volume (Cu. Ft.)	Volume (Cu. M.)
ROCKY FLATS	Area 5	0	0.00	0.00	147	206,946	5,860.05	2,710,544	76,753.93
	Area 3	0	0.00	0.00	111	278,239	7,878.84	486,163	13,766.58
	Mixed	0	0.00	0.00	0	0	0.00	283,372	8,024.19
SANDIA NTL. LAB. CA	Area 3	0	0.00	0.00	5	2,265	64.14	4,552	128.90
	Area 5	0	0.00	0.00	0	0	0.00	17,028	482.18
SANDIA NTL. LAB. NM	Area 3	0	0.00	0.00	13	7,073	200.28	35,831	1,014.62
	Area 5	0	0.00	0.00	4	3,614	102.34	33,847	958.44
SAVANNAH RIVER	Area 3	0	0.00	0.00	0	0	0.00	0	0.00
WEST VALLEY	Area 3	0	0.00	0.00	1	703	19.91	703	19.91
Inactive offsite waste generators	Area 3	0	0.00	0.00	0	0	0.00	89,980	2,547.95
	Area 5	0	0.00	0.00	0	0	0.00	38,654	1,094.56
Inactive onsite waste generators	Area 3	0	0.00	0.00	0	0	0.00	8,211,495	232,523.26
	Area 5	0	0.00	0.00	0	0	0.00	76,538	2,167.31
GRAND TOTAL		2	16	0.45	905	1,208,026	34,207.43	22,020,084	623,538.31

Total offsite waste received in FY 01 = 1,195,131 Cu. Ft. 33,842.29 Cu. M.

Total onsite waste received in FY 01 = 12,895 Cu. Ft. 365.15 Cu. M.

* Subject to revision

Offsite waste comprises approximately 60.90% of the total waste inventory

Onsite waste comprises approximately 39.10% of the total waste inventory

LOW-LEVEL WASTE OPERATIONS
FY 2001
WEEKLY WORKING REPORT *

		W/E: 23 Sep 01			FY 01 TOTAL			WMP TOTAL	
DOE APPROVED GENERATORS	Disposal Location	No. of Ship.	Volume (Cu Ft)	Volume (Cu. M.)	No. of Ship.	Volume (Cu. Ft.)	Volume (Cu. M.)	Volume (Cu. Ft.)	Volume (Cu. M.)
ABERDEEN	Area 3	0	0.00	0.00	0	0	0.00	120	3.40
	Area 5	0	0.00	0.00	10	6,910	195.67	80,765	2,287.01
ALLIED SIGNAL	Area 5	0	0.00	0.00	0	0	0.00	413	11.69
BECHTEL NEVADA	Area 3	0	0.00	0.00	4	4,563	129.21	265,735	7,524.76
	Area 5	2	16.00	0.45	10	8,108	229.59	36,071	1,021.42
	Mixed	0	0.00	0.00	0	0	0.00	10,991	311.23
BRITISH NUCLEAR FUELS LIMITED	Area 3	0	0.00	0.00	61	81,021	2,294.26	81,021	2,294.26
	Area 5	0	0.00	0.00	87	153,193	4,337.94	153,193	4,337.94
FERMCO	Area 3	0	0.00	0.00	111	217,593	6,161.54	3,584,457	101,500.35
	Area 5	0	0.00	0.00	49	37,691	1,067.29	2,539,830	71,919.86
GENERAL ATOMICS DOE	Area 3	0	0.00	0.00	100	56,314	1,594.63	297,686	8,429.51
	Area 5	0	0.00	0.00	6	3,203	90.70	450,304	12,751.17
GENERAL ATOMICS CORPORATE	Area 3	0	0.00	0.00	1	494	13.99	494	13.99
	Area 5	0	0.00	0.00	28	14,903	422.01	14,903	422.01
IT CORPORATION	Area 3	0	0.00	0.00	0	0	0.00	419	11.86
	Area 5	0	0.00	0.00	2	192	5.44	8,328	235.82
	Mixed	0	0.00	0.00	1	32	0.91	32	0.91
LLNL, CA	Area 3	0	0.00	0.00	61	38,135	1,079.86	168,207	4,763.08
	Area 5	0	0.00	0.00	14	6,196	175.45	55,652	1,575.89
LRRI	Area 3	0	0.00	0.00	1	1,280	36.25	2,560	72.49
	Area 5	0	0.00	0.00	0	0	0.00	6,974	197.48
MOUND	Area 3	0	0.00	0.00	13	29,432	833.42	58,021	1,642.97
	Area 5	0	0.00	0.00	17	29,169	825.97	1,896,549	53,704.20
OAK RIDGE NATIONAL LABORATORY	Area 3	0	0.00	0.00	35	6,370	180.38	17,290	489.60
	Area 5	0	0.00	0.00	4	6,334	179.36	6,334	179.36
PANTEX	Area 3	0	0.00	0.00	1	1,480	41.91	28,101	795.73
	Area 5	0	0.00	0.00	1	1,698	48.08	122,836	3,478.32
RMI (EARTHLINE)	Area 5	0	0.00	0.00	4	1,929	54.62	37,682	1,067.03
	Area 3	0	0.00	0.00	0	0	0.00	4,876	138.07
ROCKETDYNE	Area 3	0	0.00	0.00	2	2,264	64.11	48,536	1,374.38
	Area 5	0	0.00	0.00	1	682	19.31	52,997	1,500.71

Grant Budget Proposal

NTS Transportation Working Group

October 11th, 2001

Frank Di Sanza

Director, Waste Management Division

Grant Review Team

- Frank Di Sanza, Director, Waste Management Division
- Mike Alexander, Nevada Division of Emergency Management
- Jim O'Brien, Clark County Office of Emergency Management
- Milton Chilton, NNSA Emergency Management Division

Proposed Grant Distribution

County	Budget
White Pine	141,988
Nye	145,730
Esmeralda	144,425
Lincoln	156,046
Elko	141,811
Clark	25,000
Total:	**755,000**

Proposed Grant Distribution

Scope	White Pine	Nye	Esmeralda	Lincoln	Elko
Salaries	34,888	49,869	22,995	20,000	57,211
Travel & Training	19,500	40,000	3,000	4,500	8,500
Supplies & Admin	4,000	-0-	13,130	-0-	-0-
Equipment	83,600	55,861	105,300	133,546	76,100
Total	**141,988**	**145,730**	**144,425**	**156,046**	**141,811**

FY01 Final Budget Numbers

Final Volume-	1,230,148 Cubic Feet
Generator Fee-	$615,074

Funded 9/00	$340,000
Funded 9/01	$229,250
Total Funded	$569,250

FY01 Budget Resolution

Generator Fee	$615,074
FY01 Funding	$569,250
Balance Due	$ 45,824

FY01/02 Scope	$755,000
FY01 Funding	$229,250
FY01 Balance Due	$ 45,824
Commitment to FY02	$479,926

FY02 Projection

FY02 Projected Vol. 1,600,000 Cubic Feet

FY02 Projected Gen. Fee	$800,000
FY02 Commitment	$479,926
FY02 Projected Increment	$320,074

GREENFIELD LOGISTICS, LLC

Economic Solutions For Transportation Of Waste Material To Disposal Facilities

October 2001

COMPANY BACKGROUND

- Founded November 2000
- One in a Family of Companies
- Broken Arrow – Long Term Envirocare Contractor
- DOT and EPA Permitted Company
- Fully-Insured
- Chemtrec Emergency Response Client
- State of Utah Approved Generator Site Access Permit For Envirocare Facility

GREENFIELD LOGISTICS, LLC

MATERIALS TRANSPORTED

- Hazardous Materials
- Radioactive Materials
- Commodities/Raw Materials
- PCB Wastes
- Industrial Wastes

GREENFIELD LOGISTICS, LLC

GREENFIELD SERVICES

- Transportation Logistics Management
- Cost-Effective Rail and Truck Transport Options
- Regional Transload Facilities
- Customer-Specific Shipment Inspection

GREENFIELD LOGISTICS, LLC

LOGISTICS MANAGEMENT

- Appropriate Containers/Conveyance Selection
- Scheduling Services
- Inspection Services
- Shipping Documentation
- Expediting and Tracking of Shipments
- Daily Tracking Reports
- Waste Profiling

GREENFIELD LOGISTICS, LLC

GREENFIELD REGIONAL TRANSLOAD FACILITIES

- Southeast Region Transload Facility – East Tennessee Technology Park – Oak Ridge, TN
- Western Region Transload Facility – Aragonite, UT
- Equipped with State-Of-The-Art Unloading Equipment, Trucking Fleet, and Experienced Staff
- Economical and Efficient Transportation and Container Management
- Additional Transport Options

GREENFIELD LOGISTICS, LLC

CUSTOMER-SPECIFIC SHIPMENT INSPECTION

- Inspection of Every Conveyance Prior To Transport
- Confirm Compliance with all Necessary Regulations
- Confirm Shipment Schedule with Disposal Facility
- Review Waste Profile Forms/Manifests, Etc.
- Daily Tracking of Conveyance From Point of Origin to Destination
- Visual Inspection Upon Arrival of each Greenfield's Customers' Containers at Transload Facility Prior to Receipt for Disposal
- Visual Inspection of each Greenfield's Customers' Containers at Disposal Facility Upon Release Prior to return
- Increase Overall Project Efficiency

GREENFIELD LOGISTICS, LLC

MILFORD, UTAH
RAIL TRANSLOAD FACILITY

- 1,800 feet of usable track space
- 1,000 x 150 foot transload pad
- Transload only containerized waste shipments
- Restricted to only low-level radioactive waste containers
- 90,000# capable lifting capacity
- 483 miles to NTS via UT-21, NV-487, US-6-50, US-6, US-95
- Financial and training support for local emergency agencies

GREENFIELD LOGISTICS, LLC

WHY TRANSLOAD?

- There are currently no direct rail routes to NTS
- Per running mile, studies show that rail is statistically a safer mode of transportation than trucks
- Additional compliance inspections can be performed prior to arriving at the NTS facility

GREENFIELD LOGISTICS, LLC

WHY MILFORD, UTAH?

- NTS stakeholder considerations
- Overall safer transportation
- Rail service to the facility (6 days/week)
- Proximity to the NTS

GREENFIELD LOGISTICS, LLC

CONCLUSION

- Greenfield is an established company that is experienced with transload facility operations
- Greenfield's Milford Transload Facility meets the concerns voiced by the Stakeholders
- Rail transportation adds to the overall safety of transportation of waste materials to the NTS

GREENFIELD LOGISTICS, LLC

West Valley to NTS Shipment

By:
Jacqueline Jackson

Overview

- Background
- July 30, 2001
- Recovery Plan
- Issues Identified
- Summary of Corrective Actions

Background

- West Valley Waste Certification Program Approved by NNSA/NV Radioactive Waste Acceptance Program
- Waste streams approved:
  - VEMP debris
  - De-watered resin

Background

- Friday, July 27, 2001
  - Waste shipment left WVDP
  - Shipment contained two VEMP waste boxes and five high integrity (HIC) resin containers
  - None of the boxes or HICs contained liquid waste
  - Waterworks™ was added to containers as a standard precaution to absorb moisture

July 30, 2001

- Driver arrives at West Wendover, NV to re-fuel
- After re-fueling, Driver hoses off truck and observes a gelatin-like substance under one of the boxes

July 30, 2001

- The Driver called 911 and the WVDP at 11:40 am EDT
- West Wendover Fire Department Arrived
- The WVDP Emergency Operations Center (EOC) was activated at Noon EDT
  - An Operational Emergency was declared
  - INEEL Radiological Assistance Program (RAP) assistance was requested
  - WVDP personnel were dispatched to scene

July 30, 2001

- The RAP team from INEEL arrived
  - Identified breached box
  - Reported no radiological release
- Fire Department left
- The RAP team maintained surveillance overnight

Recovery Plan

- WVDP Emergency was terminated July 30, 2001 at 8:43 pm EDT
- The WVDP Response Team arrived July 31, 2001 at 2:00 am EDT to begin recovery operations
  - Transferred box to overpack
- Overpacked box was returned to WVDP for analysis
- Remainder of shipment continued to NTS for disposal

Reports

- Reports
  - DOE/HQ
  - DOE/OH
  - WVNS

Issues Identified

- Process used for packaging equipment was not adequate to prevent compromise of container integrity
- Inspection Criteria inadequate
- EOC had inadequate map of area

Summary of Corrective Actions

- Procedure changes and training
  - Includes waste packaging requirements
  - Actions to be taken when non-conforming conditions are identified, including documentation and resolution requirements
- Inspection criteria was expanded to ensure container integrity prior to shipment
- Applicable Lessons Learned and Occurrence Reports incorporated into program
- Transportation route maps stationed at EOC

Items of Note

- WVDP Conduct of Emergency Response
  - Timeliness of response
  - Communications
  - Overall direction and control
  - Flow of information and availability
  - Recovery planning
  - Use of EOC termination criteria
  - Interface with field elements
  - Knowledge of responders' roles and responsibilities
- EOC Procedures and Processes Worked

Transportation Protocols Update

Lee Stevens

Navarro Research & Engineering, Inc.

Protocols Update

- Forwarded to DOE Field Management Council on September 11, 2001.
- 60 Day Review Period to Begin end of October, 2001
- 30 Day Response Period
- Final Order and Manual to be out by End of February, 2002

Protocols Update

- Dates are Not Set in Stone….

NTS Transportation Working Group Internet Site Demo

Lee Stevens

Navarro Research & Engineering, Inc.

DOE/NV - Department of Energy Nevada Operations Office - Microsoft Internet Explorer provided by DOE/NV

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Programs

Nevada Test Site

News & Publications

Community

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Proposed Wind Farm at the Nevada Test Site

Final Environmental Assessment Atlas Relocation and Operation at the Nevada Test Site

NNSA

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DOE Programs

DOE Nevada maintains the capability at the Nevada Test Site and other facilities and sites to implement DOE initiatives in stockpile stewardship, crisis management, waste management, environmental management, nondefense research and development, and work for others; as well as supporting other DOE programs.

- Defense Projects
- Environmental Management
- Transportation Management
- Federal Radiological Monitoring and Assessment Center
- Community Environmental Monitoring Program
- Freedom Of Information Act
- Privacy Act
- Nevada Test Site Commercial Development

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Transportation Management

- HAZTRAK - provides information on non-classified shipments of hazardous and radioactive materials and waste originating from or destined to all U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office facilities, and those being transferred within the boundaries of the Nevada Test Site. Updated four times daily.
- On-Site Transportation at the Nevada Test Site.
- Transportation Working Group - established in October 1994 to consider transportation and related issues associated with the ongoing low-level radioactive waste and transuranic waste activities at the Nevada Test Site, and to foster planning and coordination among generator sites and the Nevada Operations Office.
- Emergency Response Guidebook (ERG2000) - primarily a guide to aid first responders in quickly identifying the specific or generic hazards of the material(s) involved in incidents, and protecting themselves and the general public during the initial response phase of the incident.

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Address http://www.nv.doe.gov/programs/xportmgt/haztrak.asp Go Links

```
Tracking Number            ETL02027
Originating Company Name   BRITISH NUCLEAR FUELS LIMITED
Destination Company Name   BECHTEL NEVADA
Guide Number               162
UN NA Number               2913
Inhalation Hazard
Description                RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS
                           (SCO), RADIONUCLIDES: NP237, PU238, AM241, PU239, SCO
                           II

                           PHYSICAL FORM: SOLID

                           CHEMICAL FORM: OXIDE

                           PACKAGE ACTIVITY: 1482.4269 MBQ

                           CATEGORY: FISSILE EXCEPTED, SCO II
Units                      40000 POUND(S)
Packages                   5 PIECE
========================== ==============================================

Tracking Number            ETL02028
Originating Company Name   BRITISH NUCLEAR FUELS LIMITED
Destination Company Name   BECHTEL NEVADA
Guide Number               162
UN NA Number               2913
Inhalation Hazard
Description                RADIOACTIVE MATERIAL, SURFACE CONTAMINATED OBJECTS
                           (SCO), RADIONUCLIDES: NP237, PU238, AM241, PU239

                           PHYSICAL FORM: SOLID

                           CHEMICAL FORM: OXIDE

                           PACKAGE ACTIVITY: 1482.4269 MBQ

                           CATEGORY: FISSILE EXCEPTED, SCO II
Units                      40000 POUND(S)
Packages                   5 PIECE
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Transportation Management

On-Site Transportation at the Nevada Test Site

- Handbook for On-Site Transportation Safety at the Nevada Test Site, February 2000, DOE/NV--699 (PDF, 206KB)
- NTS On-Site Transportation Deviation Approval Request Form, NV-56 (PDF, 76KB)

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2000 Emergency Response Guidebook - Microsoft Internet Explorer provided by DOE/NV

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Address http://hazmat.dot.gov/gydebook.htm Go Links

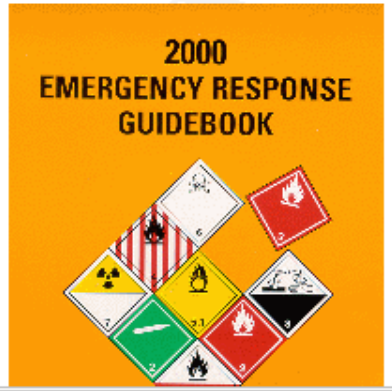
Emergency Response Guidebook

The Office of Hazardous Materials Safety

...Helps You Find Emergency Procedures Quickly

The Emergency Response Guidebook (ERG2000) was developed jointly by the US Department of Transportation, Transport Canada, and the Secretariat of Communications and Transportation of Mexico (SCT) for use by firefighters, police, and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving a hazardous material. It is primarily a guide to aid first responders in (1) quickly identifying the specific or generic classification of the material(s) involved in the incident, and (2) protecting themselves and the general public during this initial response phase of the incident. The ERG is updated every three years to accommodate new products and technology.

DOT's goal is to place one ERG2000 in each emergency service vehicle, nationwide, through distribution to state and local public safety authorities. To date, more than seven million copies have been distributed without charge to the emergency responder community. Copies are made available free of charge to public emergency responders through the **state coordinator** (U.S. only) nearest you. In Canada, contact CANUTEC at 613-992-4624 or via Internet at canutec@tc.gc.ca for information. In Mexico, call SCT at 52-5-684-1275. Copies are also available commercially through the **GPO Bookstores** EXIT RSPA and other commercial vendors.



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Transportation Management

Transportation Working Group

- Mission
- Quarterly Reports of Low Level Waste Shipments to the Nevada Test Site
- Proposed Agenda for Next Meeting - October 11, 2001 *U.S. Department of Energy, National Nuclear Security Administration, Nevada Operations Office, Las Vegas, NV (PDF, 9KB)*
- Meeting Minutes

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Transportation Management
Transportation Working Group
Mission Statement

Purpose

The Department of Energy's Nevada Operations Office (the DOE/NV) established the Transportation Working Group for the Department of Energy's waste disposal program (the Program) at the Nevada Test Site in October of 1994. The purpose of the Transportation Working Group is to consider transportation, and related issues associated with the ongoing low-level radioactive waste (LLW) and Transuranic (TRU) waste activities at the NTS, and to foster planning and coordination among generator sites and DOE/NV. In this capacity, the Transportation Working Group will: 1) advise DOE/NV on transportation and related technical issues concerning the conduct of its program, 2) inform the DOE/NV of those aspects of the Program that affect the interests of its member entities, and 3) provide recommendations for the planning and coordination of shipping campaigns to NTS.

Objectives

The objectives of the Transportation Working Group are as follows:

- Provide recommendations that serve to assist DOE to minimize the impacts of the Program on states, tribes, and local governments;
- To provide guidance to the DOE/NV on any aspect of transportation and technical

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Address http://www.nv.doe.gov/programs/xportmgt/QuarterlyReport.htm Go Links

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Transportation Management

Transportation Working Group

Quarterly Reports of Low Level Waste
Shipments to the Nevada Test Site

- FY2001 Third Quarter, April - June 2001 (PDF, 143KB)
- FY2001 Second Quarter, January - March 2001 (PDF, 8KB)
- FY2001 First Quarter, October - December 2000 (PDF, 346KB)

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http://www.nv.doe.gov/programs/xportmgt/pdfs/LLWShipments_NTS_3QFY2001__.pdf - Microsoft Internet Explorer provided by DOE/NV

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Address http://www.nv.doe.gov/programs/xportmgt/pdfs/LLWShipments_NTS_3QFY2001__.pdf Go Links

LOW-LEVEL RADIOACTIVE WASTE SHIPMENTS TO THE NEVADA TEST SITE
THIRD QUARTER REPORT, FY2001 (APRIL TO JUNE, 2001)

GENERATOR	VOLUME (FT3)	SHIPMENTS	ROUTES
FERMCO (OH)	94,100	5	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, CA-127, NV-373, US-95)
		13	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, NV-160, US-95)
		35	NORTHERN ROUTE (I-80, US-93, US-6, US-95)
		53	TOTAL
GENERAL ATOMICS (CA)	37,500	30	SOUTHERN ROUTE (I-15, CA-127, NV-373, US-95)
		1	SOUTHERN ROUTE (I-15, NV-160, US-95)
		35	SOUTHERN ROUTE (I-15, CA-127, CA-178, NV-372, NV-160, US-95)
		66	TOTAL
LAWRENCE LIVERMORE NATIONAL LAB (CA)	3,480	1	SOUTHERN ROUTE (I-580, I-5, CA-46, CA-99, CA-58, I-15, CA-127, NV-373, US-95)
		4	SOUTHERN ROUTE (I-580, I-5, CA-46, CA-99, CA-58, I-15, CA-127, CA-178, NV-372, NV-160, US-95)
		5	TOTAL
MOUND (OH)	17,400	2	NORTHERN ROUTE (I-80, US-93, US-6, US-95)
		1	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, CA-127, NV-373, US-95)
		4	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, NV-160, US-95)
		1	I-40, US-89, UT-20, I-15, UT-56, NV-319, US-93, NV-375, US-6, US-95
		8	TOTAL
PANTEX (TX)	1,700	1	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, NV-160, US-95)
ROCKY FLATS (CO)	126,000	68	I-70, US-50, I-15, US-50, US-6-50, US-6, US-95
SANDIA NATIONAL LAB (CA) *	537	1	LAS VEGAS ROUTE (I-580, I-5, CA-99, CA-58, I-15, US-95 THRU SPAGHETTI BOWL)
SANDIA NATIONAL LAB (NM)	1,990	2	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, NV-160, US-95)
OAK RIDGE NATIONAL LAB (TN)	5,640	31	NORTHERN ROUTE (I-80, US-93, US-6, US-95)
BRITISH NUCLEAR FUELS (TN)	45,400	5	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, CA-127, NV-373, US-95)
		29	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, NV-160, US-95)
		1	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, CA-127, CA-178, NV-372, NV-160, US-95)
		1	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, NV-160, NV-372, CA-178, CA-127, NV-373, US-95)
		36	TOTAL
US DOE OAK RIDGE (TN)	3,170	2	SOUTHERN ROUTE (I-40, US-95, NV-164, I-15, CA-127, NV-373, US-95)
IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY (ABERDEEN PROVING GROUNDS)	6,010	8	NORTHERN ROUTE (I-80, US-93, US-6, US-95)
TOTALS	342,927	281	

* ON 6/27/2001, ONE NON-PLACARDED SHIPMENT CONTAINING MATERIAL NOT REGULATED BY U.S. DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS REGULATIONS (49CFR)

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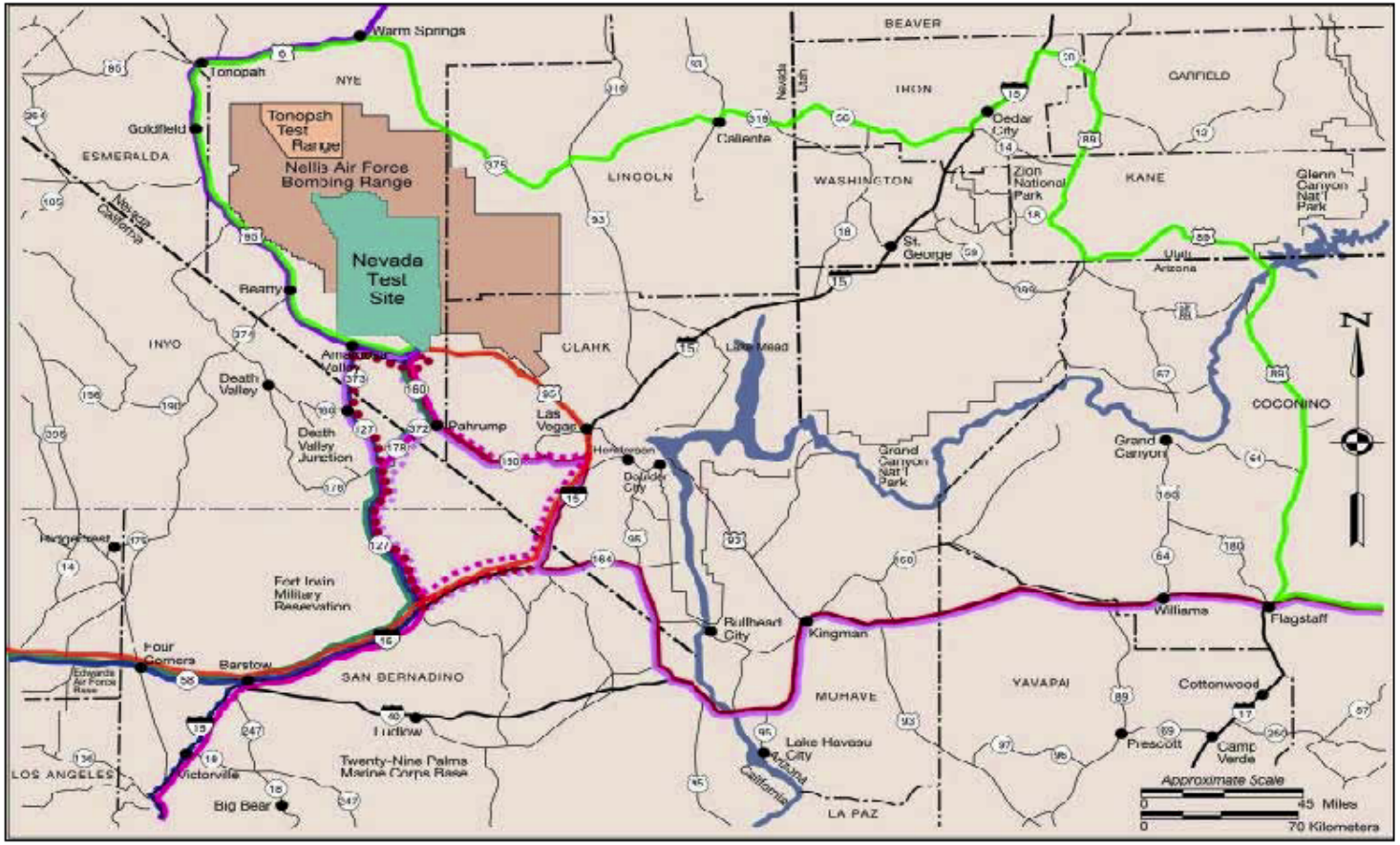
Address http://www.nv.doe.gov/programs/xportmgt/pdfs/LLWShipments_NTS_3QFY2001__.pdf Go Links

FY2001 Third Quarter
Transportation Routes for LLW to the NTS



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Transportation Working Group Meeting

National Nuclear Security Administration Nevada Operations Office
Nevada Support Facility
232 Energy Way
North Las Vegas, NV
Sedan Conference Room (A110)
Thursday October 11, 2001
1:30- 4:30 PM

AGENDA

1:30 PM	**Welcome/Introductions**	**Frank Disanza, NNSA/NV & Rex Massey, R&CS, Inc.**
1:50 PM	**Impact of Routing Decision on Rural Counties**	**Les Bradshaw, Nye County**
2:00 PM	**FY02 Emergency Response Grants**	**Frank Disanza, NNSA/NV**

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Transportation Management

Transportation Working Group

Meeting Minutes

- June 14, 2001; U.S. Department of Energy, National Nuclear Security Administration Nevada Operations Office (PDF, 1.3MB)
- March 8, 2001; University of Nevada at Las Vegas, Richard Tam Alumni Center – Marietta Tiberti Grand Hall (PDF, 1.5MB)

Last Updated August 01, 2001

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FY2001 Second Quarter W
FY2001 Third Quarter (To I
FY2001 Status Report as
Membership Survey
TWG Mission Statement
DRI Transportation Dosim
Transportation Protocols U
TRU Waste Status Report
County Grant Assistance F
FY2002 Scope of Work - G
Grant Review Criteria
Directions to NNSA Nevad

TRANSPORTATION WORKING GROUP MEETING MINUTES

Thursday, June 14, 2001 – 1:30 – 4:30 p.m.
National Nuclear Security Administration Nevada Support Facility
Great Basin Room

WELCOME & INTRODUCTIONS – Rex Massey & Frank DiSanza

Rex Massey, Chairperson, welcomed all attendees to the meeting. Attendees then introduced themselves and provided their affiliation. (See enclosure 1)

Additional enclosures are listed for your convenience.

Enclosure 1	Attendance List
Enclosure 2	Agenda
Enclosure 3	FY2001 Second Quarter Waste Routing Report
Enclosure 4	FY2001 Third Quarter (To Date) Waste Routing Report
Enclosure 5	FY2001 Status Report as of 06/01/01
Enclosure 6	Briefing: Membership Survey
Enclosure 7	TWG Mission Statement
Enclosure 8	Briefing: DRI Transportation Dosimetry Study
Enclosure 9	Briefing: Transportation Protocols Update
Enclosure 10	Briefing: TRU Waste Status Report on Oversized Boxes
Enclosure 11	Briefing: County Grant Assistance Program Update
Enclosure 12	FY2002 Scope of Work –Grant Program
Enclosure 13	Grant Review Criteria
Enclosure 14	Directions to NNSA Nevada Support Facility

Rex Massey reviewed the agenda (See enclosure 2) and Milton Chilton's update on the County Grant Assistance Program was added to the agenda prior to the discussion of new business.

Mr. DiSanza briefly discussed the FY 2001 Second and Third Quarter Waste Routing Reports detailing low-level radioactive waste shipments to the Nevada

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DOE Programs

DOE Nevada maintains the capability at the Nevada Test Site and other facilities and sites to implement DOE initiatives in stockpile stewardship, crisis management, waste management, environmental management, nondefense research and development, and work for others; as well as supporting other DOE programs.

- Defense Projects
- Environmental Management
- Transportation Management
- Federal Radiological Monitoring and Assessment Center
- Community Environmental Monitoring Program
- Freedom Of Information Act
- Privacy Act
- Nevada Test Site Commercial Development

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U.S. Department of Energy, Nevada Operations Office

ENVIRONMENTAL MANAGEMENT

Environmental Management Quick Guide | Environmental Management Program | Program Integration

Environmental Restoration Division Overview | Waste Management Division Overview | Technology Division Overview

Environmental Management Program

Overview

The U.S. Department of Energy (DOE) Environmental Management Program was created in 1989 to address the environmental legacy of fifty years of nuclear weapons research, production, and testing in the United States. The Environmental Management Program **Vision/Mission** establishes the principles and goals for conducting work of the program, which encompasses management of waste and materials and corrective actions associated with contaminated sites and facilities.

The DOE Nevada Operations Office's Environmental Management Program is divided into three primary components based on function. The **Environmental Restoration Division** is responsible for corrective actions associated with former DOE Nevada weapons testing activities. The **Waste Management Division** is responsible for management of radioactive and hazardous waste generated by the DOE and defense industry activities, and also manages treatment, storage, and disposal facilities associated with radioactive and mixed waste. The **Technology Division** addresses the investigation, demonstration, and deployment of innovative technologies to address complex environmental problems.

http://www.nv.doe.gov/programs/envmgmt/blackmtn/EM_Overview.htm Internet

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U.S. Department of Energy, Nevada Operations Office - Waste Management Overview - Microsoft Internet Explorer provided by DOE/N

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Address http://www.nv.doe.gov/programs/envmgmt/blackmtn/WM_Overview.htm Go Links

Waste Management Division

Overview

Foreseeing the need for environmental management at the Nevada Test Site, the U.S. Department of Energy (DOE) Nevada formally established the Waste Management Division in 1978, over a decade prior to the creation of the National Environmental Management Program. The Division's primary mission is to manage radioactive waste generated by the DOE and defense industry activities. The Division is also responsible for the proper acceptance and disposal of low-level waste in compliance with applicable federal, state, and local laws; and for the management of transuranic, hazardous, and mixed low-level waste. Other Division activities include management of the DOE Nevada Transportation Program, and coordination of rural county emergency response efforts.

The Waste Management Division maintains clean, safe, and technologically advanced disposal sites in Areas 3 and 5 of the Nevada Test Site. Prior to disposing of any waste at the Nevada Test Site, generators undergo a rigorous waste certification and acceptance process specified in the Nevada Test Site Waste Acceptance Criteria.

Waste Management Division activities include management of Hazardous Waste, Low-Level Waste, Mixed Low-Level Waste, Transuranic/Mixed Transuranic Waste, and the DOE Nevada Transportation Program.

Hazardous Waste: Hazardous waste is governed by the

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Mixed Low-Level Waste, Transuranic/Mixed Transuranic Waste, and the DOE Nevada Transportation Program.

Hazardous Waste Container Monitoring

Hazardous Waste: Hazardous waste is governed by the ***Resource Conservation and Recovery Act.*** Nonradioactive waste is considered hazardous if it is corrosive, ignitable, reactive, toxic, or if it is designated "hazardous" by the U.S. Environmental Protection Agency. Examples of hazardous waste are heavy metals, paint thinner, ethyl alcohol, freon, and mercury.

Low-Level Waste: Low-level waste contains radionuclides which are dispersed in materials such as soil, rags, debris, papers, equipment, and discarded protective clothing.

Low-Level Waste Storage Facility

Mixed Low-Level Waste: Mixed low-level waste contains both hazardous and radioactive

ENVIRONMENTAL MANAGEMENT

Waste Management Division

Low-Level Waste Project

Waste Management Facility

Low-level waste contains radionuclides dispersed within nonradioactive materials including rags, papers, filters, equipment, discarded protective clothing, and construction debris. Currently, low-level waste is disposed in engineered pits and trenches and in subsidence craters at two Radioactive Waste Management Sites on the Nevada Test Site. Low-level waste disposed at the Nevada Test Site can only be accepted from approved U.S. Department of Energy (DOE) and U.S. Department of Defense generators.

Several important steps are followed to ensure the safe and effective management of low-level waste, including: conducting geological studies to determine disposal performance for the sites and surrounding areas, implementing stringent waste acceptance criteria, enforcing a waste generator audit program, performing environmental monitoring, and disposing of

New Technologies Employed

waste leading to eventual closure of the disposal units.

During Site Characterization

Low-Level Waste Storage Facility

Total Low-Level Waste Volume: The Nevada Test Site typically receives less than one million cubic feet of low-level waste per year of disposal. From 1978 until the present, the Area 3 and Area 5 Radioactive Waste Management Sites at the Nevada Test Site have received approximately 21 million cubic feet of low-level waste for disposal.

Radioactive Waste Acceptance Program

The Radioactive Waste Acceptance Program's mission is to facilitate the management of radioactive waste in a safe and compliant manner ensuring the integrity of the Nevada Test Site disposal operations while maintaining the protection of the public, the workers, and the environment.

Approval to ship waste to the Nevada Test Site is granted only after the waste generator certifies that the strict **Nevada Test Site Waste Acceptance Criteria** are met. These criteria include specific requirements for waste form, characterization, and packaging. Guidance to waste generators is provided by Radioactive Waste Acceptance Program personnel with expertise in waste management, quality assurance, and applicable state and federal regulations.

In addition, Radioactive Waste Acceptance Program personnel are responsible for verifying that the waste generator facility has established a program that complies with regulations regarding the management and transportation of radioactive waste. Waste will not be accepted at the Nevada Test Site unless the generator meets the prescribed

U.S. Department of Energy, Nevada Operations Office - Waste Management Overview - Microsoft Internet Explorer provided by DOE/N

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Address http://www.nv.doe.gov/programs/envmgmt/blackmtn/WM_Overview.htm Go Links

Clearly Labeled Hazardous Waste Containers

Mixed Low-Level Waste: Mixed low-level waste contains both hazardous and radioactive components.

Transuranic/Mixed Transuranic Waste: Transuranic/Mixed Transuranic waste results from the production and manufacturing of plutonium or other man-made elements heavier than uranium (hence the name "trans" or "beyond" uranium) for use in nuclear weapons and other defense-related materials.

Transuranic/Mixed Transuranic Waste Storage Facility

Transportation Program: The Transportation Program addresses the proper packaging of radioactive materials and subsequent safe transport in accordance with U.S. Department of Transportation regulations.

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and New Mexico.

Waste Generator Assistance and Technical Support Program

DOE Nevada recently announced the creation of a new program designed to help generators with waste issues and problems. This new program, "Waste Generator Assistance and Technical Support," ensures that generators have quick access to technical experts as interpreters for the Nevada Test Site Waste Acceptance Criteria and regulations, thereby facilitating waste disposal at the Nevada Test Site. Services provided to generators under this program include:

- Qualified technical expertise for generator facility site visits.
- Assistance on waste issues, including interpretation and compliance guidance for Nevada Test Site Waste Acceptance Criteria and related activities.
- Preliminary review of generator documents, waste profiles, waste certification documentation, and corrective action plans.
- Technical experts for policy, regulatory, and operational issues.
- Distribution of issue resolution information.
- Technical experts for meetings, position paper development and other forms of communication.
- Briefings on Nevada Test Site Waste Acceptance Criteria and DOE Nevada waste acceptance processes.

For additional information on the Low-Level Waste Project or the Radioactive Waste Acceptance Program, refer to the fact sheets:

- *Waste Management – Low-Level Waste Program at the Nevada Test Site* (PDF, 459KB)
- *Waste Management – Radioactive Waste Acceptance Program* (PDF, 238KB)

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http://www.nv.doe.gov/programs/envmgmt/blackmtn/PDFs/WMLow-LevelWasteProgramattheNTSFactSheet.p - Microsoft Internet Explorer p
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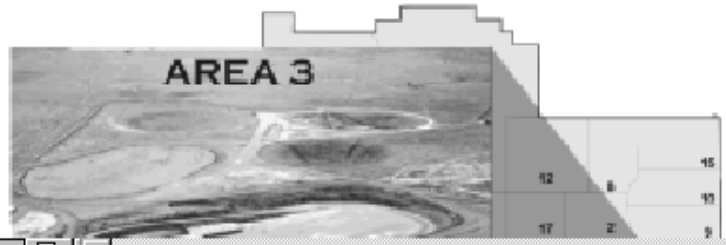
Low-Level Waste Program at the Nevada Test Site

Background

In 1961, the U.S. government began using the Nevada Test Site (NTS) for the disposal of low-level waste. Initially the waste was generated by the U.S. Department of Energy (DOE) weapons testing program; however, later it was generated through DOE environmental restoration activities. Unlike other categories of radioactive waste, low-level waste is not defined by what it *is*, but rather by what it is *not*. Low-level waste is material that is not classified as high-level waste, transuranic waste,



ter levels (770 feet and 1,600 feet [235 and 488 meters], respectively), and are both contained in "closed basins." A "closed basin" describes a certain kind of topography that prevents the external drainage of surface water. The surface water collects centrally within the basin and eventually evaporates.

Disposal conditions at the NTS are further optimized by the arid desert environment and the typically high temperatures characteristic of Areas 5 and 3, which serve to maximize evapora-

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DOE Programs

DOE Nevada maintains the capability at the Nevada Test Site and other facilities and sites to implement DOE initiatives in stockpile stewardship, crisis management, waste management, environmental management, nondefense research and development, and work for others; as well as supporting other DOE programs.

- Defense Projects
- Environmental Management
- Transportation Management
- Federal Radiological Monitoring and Assessment Center
- Community Environmental Monitoring Program
- Freedom Of Information Act
- Privacy Act
- Nevada Test Site Commercial Development

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- Send suggestions and comments via an email (your email address will be identified)

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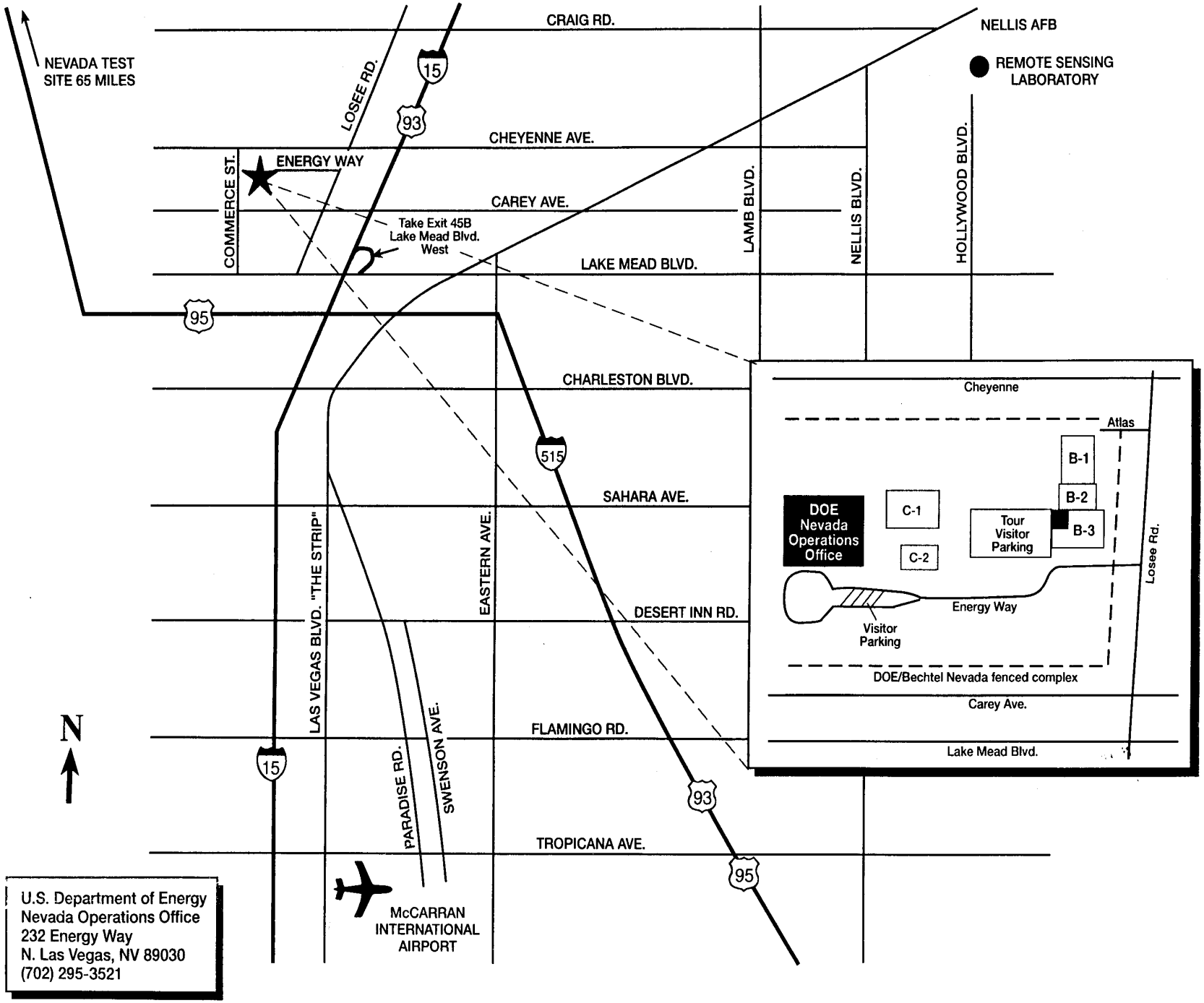

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