

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 Test Site (See enclosure 3 and 4). The reports provide the generator name, waste volume, number of shipments and routes taken for inbound Low Level Waste (LLW) shipments. Of the 330 LLW shipment transported in the 2nd and 3rd quarters of FY2001, none have been transported across Hoover Dam, while only one shipment has been transported through the Las Vegas Interchange (Spaghetti Bowl). Also discussed was the FY2001 Status Report, as of 6/1/2001, which compares, by generator, the volume of LLW forecast and the volume actually shipped. (See enclosure 5)

MEMBERSHIP SURVEY – Lee Stevens/PAI

Lee Stevens stated that there are currently 76 non-NNSA members on the Transportation Working Group mailing list, however only 25 routinely attend the meetings. Lee reviewed a survey that will be sent to each person on the TWG to ensure that they wish to continue to participate in the group. Also, information as to e-mail and internet communication is requested. (See enclosure 6) Several members of the group in attendance completed and returned the survey to Lee prior to the end of the meeting.

TWG MISSION STATEMENT – Rex Massey

Rex Massey provided an overview of the current TWG Mission statement as it appears on the NNSA/NV Homepage at <http://www.nv.doe.gov/programs/xportmgt/mission.htm>. Frank Disanza stated that NNSA reviewed the document prior to posting it on the web and found no issues with the wording and contents. (See enclosure 7)

TRANSPORTATION DOSIMETRY STUDY – Julie Miller/DRI

Julie Miller of Desert Research Institute provided a briefing on the study (See enclosure 8). The Desert Research Institute (DRI) has proposed a two-year study of the cumulative radiation exposure along low-level waste (LLW) transportation routes. Although radiation exposure from LLW shipments is probably negligible, public perception, especially in smaller, rural towns along typical haul routes, is of risk. The study methods include selecting two different generators with two different haul routes, and attaching thermoluminescent dosimeters (TLDs), or film badges, externally to the trailers at the generator's site that will be removed at the disposal site on the NTS. Appropriate scientific research quality control measures will be in place, including chain-of-custody forms for each TLD (film badge) and control dosimeters, as needed. All TLDs (film badges) will be analyzed by an independent laboratory. From the total exposure to a set of dosimeters on a particular haul route, along with travel time and distance, a quasi-cumulative potential dose to a hypothetical public individual can be calculated. This can be equated to the potential maximum dose from all waste shipments projected to pass through a particular town in a given year. The results of this study will be compared with U.S. Department of Transportation (DOT) regulations and IAEA standards for transporting radioactive waste. Information will be disseminated through stakeholder meetings.

A question was raised if the type of material that was being shipped during the study would affect the outcome of the findings, favorably or unfavorably. It was determined that the dose rate for any package of any material being studied must meet the same DOT package surface readings, no matter what the material, so this would not affect the finding either way.

A question was raised as to if findings from the two generators and routes could be extrapolated to estimates on generators/routes that were not studied. It was determined that this could be done.

TRANSPORTATION PROTOCOLS UPDATE – Lee Stevens/PAI

The protocols are being held up as the NNSA and DOE negotiate over the wording of DOE Order 460.2 "Departmental Materials Transportation and Packaging Management." When this is completed, the protocols should become part of the order. If there is no movement on this front, another update will be given at TEC meeting being held in July 2001. Upon release of the document, any public comments received will be accepted and resolved through TEC in FY 2002, if required. (See enclosure 9)

At the 3/8/2001 meeting, there was request by two attendees to receive copies of the protocols. This is still an open action item, as these copies cannot be sent out until the Order (containing the protocols) is finalized. At that time the protocols will also be available on the internet, NNSA will put a link to them on their website.

NATIONAL ENVIRONMENTAL IMPACT STATEMENT ISSUES UPDATE –
Deb Howard, NNSA/NV

Ms Howard indicated that the Supplement Analysis (SA) for the NTS EIS is proceeding as planned. NNSA/NV had just completed the internal scoping for the NEPA process and indicated that key items to be evaluated for national defense included sub-critical projects, safety drop test at the BEEF Facility, underground nuclear testing, dynamic weapons testing and several generic placeholders for activities as Advanced Accelerator Application (AAA), Advanced Hydrodynamic Facility (AHF) and Modern Pit Facility. Activities for to be evaluated for Environmental Management include an additional generator, DoD types of waste generated from downed planes carrying weapons, evaluation of the source term, and the expansion of the borehole management. Other items to be included in the process include work for others and non defense research and development. Key infrastructure items include 2000 Census data, air space, and water rights.

One of the new elements that will be introduced during this project includes the initiation of stakeholder working group that will participate in the development and review of the document. Once the contractor for the SA is identified a stakeholder group will be developed. Presently the schedule indicates that a statement of work will be transmitted to the contractors identified in the Basic Ordering Agreement (BOA) for NEPA work in the July/August time frame with issuance no later than mid August. Once this task is taken place the project will proceed and is estimated to be complete with in a 12 to 16 month time frame.

TRU WASTE STATUS REPORT ON OVERSIZED BOXES – Paul Tilman, NNSA/NV

Paul Tilman of NNSA/NV presented an overview of the actions being taken to identify and locate packagings that will accommodate 58 oversize boxes containing glove boxes, machinery, etc. ultimately destined for the Waste Isolation Pilot Plant (WIPP) in New Mexico. (See enclosure 10) There are several options being researched, including manufacturing oversized packagings to ship the material directly to WIPP, or the use of an offsite size reduction facility to reduce the size of the material and use existing TRUPACT packagings for shipment to WIPP. Several issues stand in the way of the completion of this project in the required time frame. NNSA/NV continues to work with DOE Headquarters and the Carlsbad Field Office to determine an acceptable path forward.

WIPP EMERGENCY RESPONSE TRAINING EXERCISE – Mike Alexander, NDEM

Mike Alexander of the Nevada Division of Emergency Management presented an overview of the plans for the scheduled emergency response exercise to be held September 22, 2001 near the Longstreet Inn & Casino on NV-373. The exercise scenario will involve a radiological transportation incident.

EMERGENCY MANAGEMENT – Milton Chilton, DOE/NV

Mr. Chilton reported on the status of the County Grant Assistance Program to the counties of Nye, Esmeralda, Lincoln, White Pine, Elko, and Clark. This included the current available funding in FY 2001 (\$160K) and projected FY2002 funding (\$512K), the review team composition and timeline, and a review of the process (See enclosure 11). The briefing also included a review of the FY 2002 scope of work for Grant Assistance Program (See enclosure 12) and the review criteria for Grant Assistance Program (See enclosure 13).

NEW BUSINESS

ADMINISTRATION AND NEXT MEETING

The next meeting will be held from 1:30 – 4:30 p.m. on Thursday, October 11, 2001. The meeting location shall be:

National Nuclear Security Administration (U.S. Department Of Energy)
Nevada Operations Office
Nevada Support Facility
232 Energy Way
North Las Vegas, NV 89030
Sedan Conference Room A110 (No DOE Badge Required)
A map will accompany the minutes (See enclosure 14)

Proposed Agenda Items:

- DRI Transportation Study
- Transportation Protocols Update
- National Environmental Policy Act Issues Update
- TRU Waste Status Report on Oversized Boxes
- WIPP Emergency Response Training Exercise Update

The meeting was adjourned at approximately 4:00 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.

Ms. Deb Howard will forward to the attention of the TWG, any EIS changes dealing with transportation.

TRANSPORTATION WORKING GROUP ATTENDEES LIST
6/14/2001 MEETING

Mike Alexander Nevada Department of Emergency Management	Milton W. Chilton NNSA/NV EMD
Joy Brandt Program Director, Austin	E. Frank Di Sanza NNSA/NV WMD
Bryan Elkins, Director Community Development, Caliente	Michael Genge
Connie Hansen Department of Public Works, North Las Vegas	Nancy Harkess NNSA/NV OPAI
Deborah Howard NNSA/NV	Marian Lawrence
Steve Mahnken	Rex Massey Research and Consulting Service, Inc.
Julie Miller Desert Research Institute	Carla Sanda ITLV
John Sattler DOE Fernald Area Office	Susi Snyder Shundahai Network
Lee J. Stevens PAI/WMD	John B. Walker Nevada Division of Environmental Protection

Transportation Working Group Meeting

U.S. Department of Energy Nevada Operations Office
Nevada Support Facility
232 Energy Way
North Las Vegas, NV
Great Basin Room (A106)
Thursday June 14, 2001
1:30- 4:30 PM

AGENDA

1:30	Welcome and Introductions	Rex Massey/Frank Disanza
1:45	Membership Survey	Lee Stevens
1:50	Review of TWG Mission Statement	Rex Massey
2:00	DRI Transportation Study	Julie Miller
2:20	Transportation Protocols Update	Lee Stevens
2:30	Break	
2:45	National Environmental Policy Act (NEPA) Issues Update/Discussion	Deb Howard
3:00	TRU Waste Status Report On Oversized Boxes	Paul Tilman
3:10	WIPP Emergency Response Training Exercise Update	Mike Alexander
3:40	New Business	Rex Massey
4:00	Administration and Next Meeting	Rex Massey
4:10	Adjourn Meeting	Rex Massey

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.

MONTHLY WASTE ROUTE DRIVER'S SURVEY REPORT
 FY2001 2ND QUARTER SHIPMENT TOTALS TO DATE- **JANUARY**/FEBRUARY/MARCH

ENTRY STATE	WASTE ROUTE	ROCKY FLATS (CO)	FERMCO (OH)	MOUND (OH)	RMI-EARTHLINE (OH)	OAK RIDGE (TN)	SANDIA NATIONAL LAB (CA)	LIVERMORE NATIONAL LAB (CA)	LOVELACE LAB (NM)	SANDIA NATIONAL LAB (NM)	GENERAL ATOMICS (CA)	BOEING-ROCKETDYNE (CA)	<<<<ROUTE TOTAL
UT	I-70, US-50, I-15, US-50, US-6-50, US-6, US-95	62											62
UT	I-40, US-89, UT-20, I-15, UT-56, NV-319, US-93, NV-375, US-6, US-95									1			1
UT	I-80, US-93, US-6, US-95		0	1	0	0							1
CA	I-40, US-95, NV-164, I-15, CA-127, NV-373, US-95		22	1	0	0			0	0			23
CA	I-15, CA-127, NV-373, US-95										37	0	37
CA	I-580, I-5, CA-46, CA-99, CA-58, I-15, CA-127, NV-373, US-95						0	2					2
CA	I-40, US-95, NV-164, I-15, NV-160, US-95		20	3	2	0			0	0			25
CA	I-40, US-95, I-515, NV-146, I-15, NV-160, US-95		0	0	0	0			0	0			0
CA	I-15, NV-160, US-95										2	0	2
CA	I-15, CA-127, CA-178, NV-372, NV-160, US-95										8	0	8
CA	I-580, I-5, CA-46, CA-99, CA-58, I-15, CA-127, CA-178, NV-372, NV-160, US-95						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	1			1
CA	I-580, CA-132, I-5, I-80, US-50, US-95						0	1					1
CA	I-580, I-5, I-80, US-95						0	1					1
CA	I-580, I-5, CA-99, CA-58, I-15, US-95 (SPAGHETTI BOWL)						0	0					0
CA	I-15, US-95 (SPAGHETTI BOWL)										0	0	0
UT	I-70, I-15, US-95 (SPAGHETTI BOWL)	1											1
UT	I-80, I-15, US-95 (SPAGHETTI BOWL)		0	0	0	0							0
CA	I-40, US-93, US-95 (SPAGHETTI BOWL AND HOOVER DAM)	0	0	0	0	0			0	0			0
	GENERATORS TOTALS>>>>	63	42	5	2	0	0	7	0	2	47	0	168

* 1 ROCKY FLATS LIMITED QUANTITY (NOT PLACARDED) SHIPMENT (RFL01105) TRAVELED THROUGH THE SPAGHETTI BOWL

FY 2001 2ND QUARTER TOTALS (QUARTER TO DATE)

168	TOTAL LLW SHIPMENT ROUTINGS REPORTED	
0	SHIPMENTS TRAVELED ACROSS HOOVER DAM, OR...	0.0%
1	SHIPMENTS TRAVELED THRU THE LAS VEGAS INTERCHANGE, OR...	0.6%
65	SHIPMENTS ENTERED NEVADA THROUGH UTAH, OR...	38.7%
103	SHIPMENTS ENTERED NEVADA THROUGH CALIFORNIA, OR...	61.3%
62	CA ENTRY SHIPMENTS TRAVELED ON NV-373 THRU AMARGOSA VALLEY, NV	60.2%
12	CA ENTRY SHIPMENTS TRAVELED ON NV-372 THRU PAHRUMP, NV	11.7%
27	CA ENTRY SHIPMENTS TRAVELED FROM I-15 TO NV-160 THRU PAHRUMP, NV	26.2%

FY2001 3RD QUARTER SHIPMENT TOTALS TO DATE-APRIL/MAY/JUNE---As of 5/31/2001

ENTRY STATE	LOW LEVEL WASTE ROUTE	ROCKY FLATS (CO)	FERMCO (OH)	MOUND (OH)	RMI-EARTHLINE (OH)	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)	<<<<ROUTE TOTAL
UT	I-70, US-50, I-15, US-50, US-6-50, US-6, US-95	44												44
UT	I-40, US-89, UT-20, I-15, UT-56, NV-319, US-93, NV-375, US-6, US-95								0					0
UT	I-80, US-93, US-6, US-95		6	1	0	5								12
CA	I-40, US-95, NV-164, I-15, CA-127, NV-373, US-95		5	1	0	2		0	0					8
CA	I-15, CA-127, NV-373, US-95										27	0		27
CA	I-580, I-5, CA-46, CA-99, CA-58, I-15, CA-127, NV-373, US-95						0	0						0
CA	I-40, US-95, NV-164, I-15, NV-160, US-95		13	2	0	15		0	1				1	32
CA	I-40, US-95, I-515, NV-146, I-15, NV-160, US-95		0	0	0	0		0	0					0
CA	I-15, NV-160, US-95									1	0			1
CA	I-15, CA-127, CA-178, NV-372, NV-160, US-95									35	0			35
CA	I-580, I-5, CA-46, CA-99, CA-58, I-15, CA-127, CA-178, NV-372, NV-160, US-95						0	2						2
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					0
CA	I-40, US-95, NV-164, I-15, NV-160, NV-372, CA-178, CA-127, NV-373, US-95					1								1
CA	I-580, CA-132, I-5, I-80, US-50, US-95						0	0						0
CA	I-580, I-5, I-80, US-95						0	0						0
CA	I-580, I-5, CA-99, CA-58, I-15, US-95 (LAS VEGAS INTERCHANGE)						0	0						0
CA	I-15, US-95 (LAS VEGAS INTERCHANGE)									0	0			0
UT	I-70, I-15, US-95 (LAS VEGAS INTERCHANGE)	0												0
UT	I-80, I-15, US-95 (LAS VEGAS INTERCHANGE)		0	0	0	0								0
CA	I-40, US-93, US-95 (LAS VEGAS INTERCHANGE AND HOOVER DAM)	0	0	0	0	0		0	0					0
	GENERATORS TOTALS>>>>	44	24	4	0	23	0	2	0	1	63	0	1	162

FY 2001 3RD QUARTER TOTALS (QUARTER TO DATE)

162	TOTAL LLW SHIPMENT ROUTINGS REPORTED	
0	SHIPMENTS TRAVELED ACROSS HOOVER DAM, OR...	0.0%
0	SHIPMENTS TRAVELED THRU THE LAS VEGAS INTERCHANGE, OR...	0.0%
56	SHIPMENTS ENTERED NEVADA THROUGH UTAH, OR...	34.6%
106	SHIPMENTS ENTERED NEVADA THROUGH CALIFORNIA, OR...	65.4%
36	CA ENTRY SHIPMENTS TRAVELED ON NV-373 THRU AMARGOSA VALLEY, NV	34.0%
37	CA ENTRY SHIPMENTS TRAVELED ON NV-372 THRU PAHRUMP, NV	34.9%
33	CA ENTRY SHIPMENTS TRAVELED FROM I-15 TO NV-160 THRU PAHRUMP, NV	31.1%



FY 2001 Status Report as of 06/10/01

Field Office Generators	Volume Forecast - ft ³	Volume Shipped -ft ³
Albuquerque	13,100	7,683
Honeywell	-	-
Los Alamos	-	-
LRRRI	-	-
Pantex	3,000	1,698
SNL/CA	1,100	-
SNL/NM	9,000	5,985
Chicago	7,956	-
Ames	-	-
Argonne East	-	-
Argonne West	-	-
Brookhaven	-	-
Fermi	-	-
Princeton	7,956	-
DOD	15,000	-
Aberdeen	15,000	-
Gen. Atomics Corp.	19,000	12,810
Idaho	-	-
BBWI	-	-
Nevada	15,604	11,481
Bechtel NV	14,452	11,265
IT Corp.	1,152	216
Oakland	70,857	72,077
Berkeley	-	-
Boeing Rocketdyne	3,200	1,132
GA - DOE	50,000	56,314
LLNL	17,657	14,631
Oak Ridge	365,100	32,786
Bechtel Jacobs	101,500	5,533
BNFL	250,000	27,253
Foster Wheeler	-	-
Paducah	13,600	-
Portsmouth	-	-
Weldon Springs	-	-
Ohio	409,720	185,500
Battelle	2,160	-
Earthline	1,100	1,929
Fernald	341,260	141,453
Mound	64,500	42,118
West Valley	700	-
Rocky Flats	200,000	311,634
Kaiser Hill	200,000	311,634
Savannah River	20,400	-
Westinghouse	20,400	-
Total	1,136,737	633,971

National Nuclear Security Administration-Nevada Operations Office
Transportation Working Group Membership Survey

TWG Members Name:
Mailing Address:

Note: Non-response to this survey by 7/27/2001, will result in your removal from the TWG membership list.

Question 1.

Select one statement.

- _____ I am an active member of the TWG, have attended a meeting within the past 12 months, and wish to remain on the TWG membership list.
- _____ I am an inactive member of the TWG, please continue to send me correspondence and information from this DOE working group
- _____ I am no longer a member of the TWG and wish to be removed from the TWG membership list, please discontinue sending correspondence and information from this DOE working group.
- _____ I am requesting that the following person(s) be added to the TWG membership list.

Name	Phone Number	E-mail Address

Question 2.

For active and inactive members only:

- _____ I currently have access to the internet.
- _____ I currently have access to a printer.

Question 3.

For active and inactive members only:

My e-mail address is: _____

Please return completed survey to:

National Nuclear Security Administration, Nevada Operations Office
P.O. Box 98518
Las Vegas, NV 89193
Att: Lee Stevens/WMD

-or-

Fax to (702) 295-1153



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 activities undertaken by the Program;
- To ensure the quality and creditability of studies generated by the Program by providing input from affected parties in order to adequately address the interests and concerns of local, state, and tribal governments; and
- To monitor Program compliance with national policies DOE orders and commitments concerning the disposal Program and shipment of LLW wastes to the NTS.
- Monitor LLW and TRU waste shipment activities to NTS.

Membership of the Committee

Formal membership of the Transportation Working Group shall consist of representatives from interested state, tribal, and local governments in Nevada and Inyo County California and others identified by the Committee.

Organizational Structure

Chair - The committee members and DOE/NV will select a chair to lead the committee for two years. The Chair shall serve at the pleasure of the committee. The members shall select a Vice-Chair to lead Transportation Working Group meetings when the chair is not able to attend.

Subcommittees - The chair may, with the approval of the Transportation Working Group and DOE/NV, appoint subcommittees when a specific need arises. All subcommittees shall serve at the pleasure of the full Transportation Working Group. The chair may also request members of other existing committees to provide technical assistance to the Transportation Working Group through participation on subcommittees.

Functions

The committee shall take appropriate actions consistent with this mission statement. These actions may include:

- Making recommendations to the DOE/NV on any aspect of transportation related impacts of the Program;
- Serving in an advisory capacity to the DOE/NV on the planning and implementation of the Program, as appropriate to the needs and interests of the members;
- Suggesting work priorities for the Program on an annual basis;
- Receiving periodic progress reports on current Program projects;
- Receiving periodic progress reports for member organizations of the committee on their activities;
- Receiving waste generator briefings prior to the initiation of restart of, or changes to, major shipping campaigns of radioactive waste to the NTS.

Liaison with the DOE/NV

The Transportation Working Group may report to the DOE/NV on its findings. Transportation Working Group reports do not preclude independent reports from member organizations.

The Transportation Working Group will, within the constraints of the time and resources, respond to DOE/NV requests for advice on specific matters involving the implementation of the Program.

Meetings

Meetings will be held on at least a biannual basis or more frequently to coincide with important Program activities and jointly scheduled by the Transportation Working Group and DOE/NV.

Agendas will be developed by the Chair in consultation with the members and the DOE/NV and circulated to the members prior to the meeting. Members should obtain an appropriate authority to act on action items by the time of the meeting. Supporting documentation for the agenda items will be provided by the Chair or DOE/NV in advance of the meeting.

Recommendation Procedures

Recommendations will be made by consensus of members present at the Transportation Working Group meeting.

Last Updated May 08, 2001

[Disclaimer, Privacy and Security notice](#)

Please send questions and comments to the [webmaster](#)

<http://www.nv.doe.gov>

DRI Transportation Dosimetry Study



LLW Facts

- **600,000 cubic feet of Low-Level Waste transported annually to NTS from other DOE sites**
- **Expected to continue for a decade**
- **Expected increase in LLW volume between FY02 and FY07 as cleanup proceeds under ROD of PEIS**
- **This project addresses only LLW transportation**

Issues

- **Stakeholder LLW transportation concerns:**
 - **Large cities (Las Vegas, Salt Lake City, Phoenix): Highway accidents**
 - **Rural areas and towns (Kingman, Caliente, Beatty, St. George): Radiation exposure as trucks move through towns**

DRI Study

- **A two-year study of cumulative radiation exposure along LLW transportation routes**
- **Radiation exposure from LLW truck shipments is probably negligible; however, public perception is of risk.**

DRI Study

- **Dosimeters attached externally to transportation trailers hauling LLW**
- **Two generators and two haul routes**
- **Independent laboratory analysis**
- **Calculation of quasi-cumulative dose to hypothetical individual, equated to potential maximum dose from all waste shipments through a given town.**
- **Compare to IAEA and DOT**

Study Participants

- **Joint study between DRI and UNLV Health Physics graduate student.**
- **Consultation with DOE Waste Transportation Center of Excellence at DOE-AL.**

Study Hypothesis

- **A quasi-cumulative potential dose to a hypothetical public individual will be calculated from the total exposure to a set of dosimeters. This can be equated to the potential maximum dose from all waste shipments projected to pass through a particular town in a given year.**

Haul Routes

- **Two major haul routes from two waste generators will be selected and monitored**
 - **Rocky Flats**
 - Nevada: Hwy 50 to Hwy 6 to Hwy 95
 - Nevada: I-70 to Hwy 50 to I-15 to Hwy 50 to Hwy 6 to Hwy 95
 - **Fernald**
 - Nevada: Hwy 95 to Hwy 164 to I-15 to Hwy 160 to Hwy 95 (southern)
 - Nevada: Hwy 93 to Hwy 6 to Hwy 95 (northern)
- **Travel distance and approximate time**



Waste Generators

- **Two LLW generators will be selected based on waste type, quantity, and route.**
- **Rocky Flats**
 - **General building demolition materials**
 - **Average: 5 shipments per week**
- **Fernald**
 - **General cleanup debris from construction and labs**
 - **Average: 5 shipments per week (recent)**

Dosimeters

- **Dosimeter will be attached to the trailer at the point of origin**
 - **TLDs vs. film badges**
 - Film badge more appropriate for short-term exposure
 - **Attachment points and methods**
 - **Control dosimeters**
 - Non-LLW truck on same route
 - Stationary: CEMP station
 - NTS RWMS
 - Non-mobile
 - **Information/chain-of-custody sheet**
- **Dosimeter will be collected at the NTS at the point of disposal**

Information Sheets

- **Information/chain-of-custody sheets**
 - Driver's identification
 - Points of departure and arrival
 - Times of departure and arrival
 - Haul route
 - Route distance
 - Route time
 - Weather conditions
 - Dosimeter ID number
 - Signatures of generator, driver, disposal site

Dosimeters

- **Dosimeters will be analyzed by an independent laboratory**
 - **Approximately 10 badges per quarter per year per generator**
 - **At least one control dosimeter from each control source per quarter**

Waste Generator Instructions

- **Dosimeters, information/chain-of-custody sheets, and instructions will be sent to generator sites**
- **Instructions will be given to truck drivers by generator site**
- **DRI will be available for questions**

Truck Driver Instructions

- **Placement of dosimeter on trailer**
- **Information/chain-of-custody sheets will be completed**
- **Submission of dosimeter and information/chain-of-custody sheets to NTS disposal site personnel**

NTS Disposal Site Instructions

- **Collection of dosimeter from driver**
- **Collection and verification of completion of information/chain-of-custody sheets**
- **Dosimeter properly stored in controlled location**

DRI Instructions

- **Collection of dosimeters and information/chain-of-custody sheets from NTS disposal sites each week**
- **Ship dosimeters and non-mobile control dosimeter to independent laboratory**
- **Compile and analyze laboratory results**
- **Disseminate information**

DRI Analysis

- **Quasi-cumulative dose to a hypothetical public individual will be calculated from the total exposure to a set of dosimeters and equated to potential maximum dose from all waste shipments through a given town.**
- **Compare results to DOT regulations and IAEA standards**
- **Disseminate information through stakeholder meetings**

Schedule: FY01

- **FY2001: Study will commence....**
 - **Participating generators and routes will be selected**
 - **Dosimeter data will be collected and analyzed**
 - **Stakeholder meetings will be held**
 - **Study information will be disseminated and stakeholder comments will be archived**
 - **Interim letter report**

Schedule: FY02

- **FY2002: Study will continue...**
 - **Dosimeter data will be collected and analyzed**
 - **Stakeholder meetings will be held**
 - **Study information will be disseminated and stakeholder comments will be archived**
 - **A final meeting will discuss findings of study with stakeholders**
 - **Final report**

Issues

- **LLW transportation issues minimized:**
 - Effort is being made to address risk
 - Reduce perceived risks
- **Roadblocks:**
 - No incentive to generators to participate
 - Truck firms concerned with liability

DRI Contacts

- **Julie Miller**
 - 702-895-0483
 - juliejm @ dri.edu
- **Stacey Sedano**
 - 702-895-0466
 - stacey @ dri.edu
- **David Shafer**
 - 702-895-0564
 - dshafer @ dri.edu



Transportation Protocols Update

Transportation Working Group

June 14, 2001

Las Vegas, NV

Presented By: Lee Stevens



Current Protocol Status

- ◆ Held up as part of resolution process for DOE Order 460.2
- ◆ If not resolved, status report will be given at TEC meeting in July, 2001
- ◆ Hope to have Protocol document implemented in mid-late 2001
- ◆ Major comments accepted through TEC and revisions made in 2002, if necessary

TRU Oversize Box Status

June 14, 2001

Las Vegas, NV

Paul Tilman - NNSA/NV





TRU Oversize Box Status

- Inventory consists of 58 Boxes
- Mixed TRU
- Received From LLNL between 1975 and 1985
- Ultimate destination is WIPP
- Contents: Glovebox, Machinery, etc.
 - 13.5' x 5' x 5'
 - 12.5' x 2' x 2'
 - 8' x 5' x 5'
- Complex-wide issue (other sites with larger inventories, such as Idaho)



TRU Oversize Box Status

- Options...
 - Onsite NTS Size Reduction Facility (SRF) (not economically feasible for 58 boxes)
 - Send to offsite SRF (other sites are building their own SRF's)
 - Send directly to WIPP (container issues)

TRU Oversize Box Status

- Important Dates...
 - Federal Facilities Act Consent Order deadline to ship oversize boxes offsite by end of FY2003
 - Shipping corridor opens in FY2005

TRU Oversize Box Status

- Container Options...
 - TRUPACT-II Cannot accommodate these boxes due to size
 - TRUPACT-III CBFO investigating design and construction (current design can accommodate most, but not all NTS boxes)
 - Super Tiger
 - Can accommodate most but not all NTS boxes
 - NRC License requires renewal

TRU Oversize Box Status

- Offsite Size Reduction Facility...
 - Reduce size
 - Repack
 - Characterize to meet DOT and WIPP WAC
 - Shipment would be made from offsite SRF directly to WIPP (no return to NTS)

TRU Oversize Box Status

- Issues
 - No site selected
 - WMPEIS ROD amendment required
 - Offsite SRF may need to do NEPA and WAC to accept NTS (or other sites) waste



TRU Oversize Box Status

- Current Status...
 - Continuing to work with Headquarters, NDEP, CBFO and potential SRF sites to to determine acceptable path forward

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Questions or Comments?

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County Grant Assistance Program

Milton Chilton, CHP, RRPT

Presented to TPWG June 14, 2001

FY 2002 Budget

- Available Funding
- Review Timeline
- Review Team Composition
- Grant Review Process

Available Funding

- Projected Funding for FY 2002 is \$512,000.
- Incremental Funding for FY 2001 is \$160,000.
- Total is \$672,000.

Review Timeline

- Grant Proposals due by June 15th.
- Review Team to meet with County Personnel on June 21 and 22.
- NNSA/NV Funding Proposal to be presented to the EPWG on June 28. County Officials welcome to participate in meeting.

Review Team Composition

- Frank Di Sanza- NNSA Director of the 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.

Grant Review Process

- Formal Process based on DOE grant evaluation guidance.
- Defined by the “Rating Plan for State Emergency Management Grant Proposal”.
- Rating Criteria and assumptions as defined in the rating Plan and Grant Review Criteria.
- Team members complete Conflict of Interest statement.

**FY 2002
SCOPE OF WORK**

**DEPARTMENT OF ENERGY, NEVADA OPERATIONS OFFICE/
NEVADA DIVISION OF EMERGENCY MANAGEMENT
EMERGENCY RESPONSE ASSISTANCE GRANT PROGRAM
TO THE COUNTIES OF NYE, ESMERALDA,
LINCOLN, WHITE PINE, ELKO, AND CLARK
(Last Revised 5-7-01)**

SCOPE: The existing Agreement In Principle and Grant No. DE-FG08-00NV13804 between the state of Nevada and the Department of Energy, Nevada Operations Office is modified to include the administration of a grant program for emergency response assistance to the counties of Nye, Esmeralda, Lincoln, White Pine, Elko, and Clark. The Department of Energy shall provide the Nevada Division of Emergency Management a minimum of \$250,000 or \$0.50 per cubic foot of low level waste disposed of at the NTS, whichever is greater, for each fiscal year this grant is active. Each county shall receive \$25,000 as base funding during Fiscal Year 2002. Remaining funding after distribution of this base support shall be distributed to the counties as determined by DOE/NV in coordination with the Emergency Preparedness Working Group.

GRANT CRITERIA: Grant funding shall be provided to:

1. Hire county employees for such positions as Emergency Management Director, Emergency Response Trainer, or Emergency Management/ Response Planner.
2. Prepare emergency plans. This may include the hiring of a consultant to assess personnel and equipment needs, to prepare emergency plans, conduct communication assessments, or to develop other plans and procedures as appropriate.
3. Plan and conduct emergency response training. This may include the hiring of a consultant to prepare lesson plans and/or to conduct the training. The county may elect to use county personnel to plan and/or conduct this training.
4. Purchase emergency response equipment. This equipment must be necessary to carry out emergency management responsibilities. In the event equipment, such as a radio communication tower, is shared with other users or used for other purposes than emergency response, only that portion of the costs associated with emergency response shall be purchased with grant funds. A county may elect to deposit grant funds into a capital outlay fund, however, any interest accumulated in excess of \$100.00 must be returned to the US Treasury.
5. Conduct or participate in emergency response drills and exercises. This may include the hiring of a consultant to plan, conduct, and/or oversee the drill or exercise. The county may elect to plan, conduct, and or oversee the drill or exercise with county personnel. Each county should plan on participating in at least one HazMat drill each year and one full participation exercise every four years. These drills and exercises will provide the counties, state, and DOE response resources the opportunity to jointly respond to HazMat emergencies and better coordinate their response capabilities. These activities will also help DOE meet its responsibilities under DOE Order 151.1 AComprehensive Emergency Management System® in conducting drills and exercises with off-site mutual aide resources.
6. Reimburse or pay for travel expenses and per diem associated with the above activities to county employees, volunteers, or consultants. The county may elect to pay volunteers a stipend for attending training/ meetings or responding to an emergency.

Grant Review Criteria
Grant Assistance program

The following assumptions, priorities, and criteria will be used to assess the grant proposal packages when the counties submit them.

Basic Program Assumptions:

- We are using an all hazards approach for the grants.
- The Grant is needs based.
- The initial purpose of the grant is to develop an operations level response capability in the counties. This should include the training of a few specialists as part of the response teams.
- The proposal must be something which can support DOE's mission. The capability being developed should be something which could assist DOE should a low level waste accident occur in the county for example.

Funding Priorities:

- Funding needed to define requirements for implementing a Comprehensive Emergency Management Program at the operations level.
- Funding required to ensure the safety of the responders (Training, PPE, equipment, etc.).
- Funding contribution to public safety.
- Funding required to develop an Operations Level Capability.
- Funding required to develop capabilities that exceed the Operations Level.

Funding Review Criteria:

Significance (What real difference will it make?)

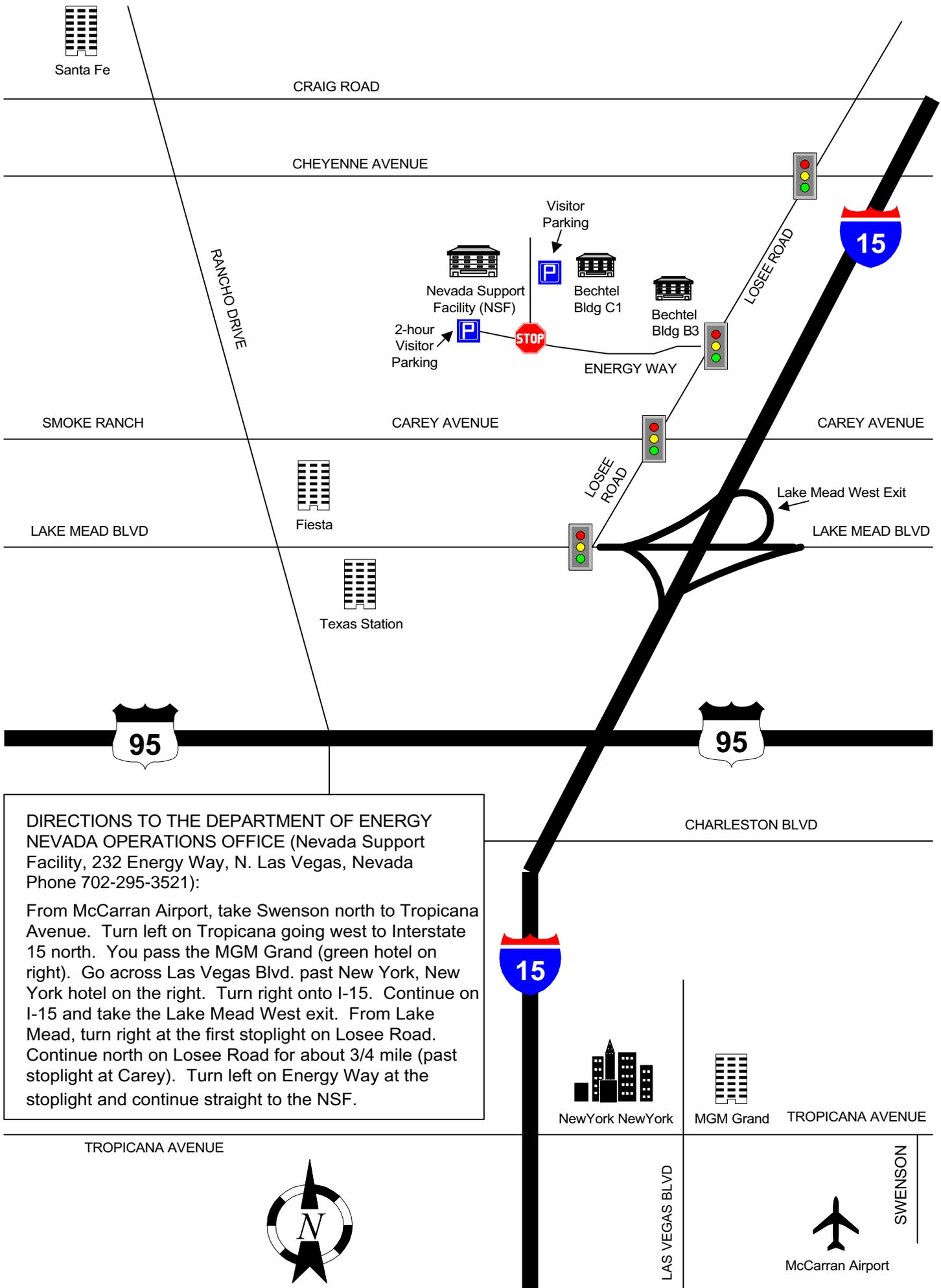
- Contribution to the Public Safety Program
- Contribution to responder safety and preparedness
- Mitigation benefit

Approach (Planned methodical vs. by the seat of the pants?)

- Is the proposal consistent with the County Comprehensive Emergency Management Plan?
- Sustainability
- Does the proposal maximize the benefit and minimize the long-term overhead commitment
- Consistency with Program Definition and Development Plan
- Is the proposal based on a long term (Multi year) plan for program development?
- Is the proposal based on a comprehensive requirements assessment?
- Does the proposal demonstrate appropriate prioritization of requirements?
- Are possible problems and contingencies identified where appropriate
- Consistency with Laws and Regulations
- Is the proposal consistent with the appropriate laws and regulations?

Feasibility (Can it be successfully implemented and maintained?)

- Does the county have the expertise and resources to successfully implement the proposal?
- Does the proposal present unusual problems or liabilities for implementation?
- Does the county have the necessary resources to maintain the proposal long term?



DIRECTIONS TO THE DEPARTMENT OF ENERGY NEVADA OPERATIONS OFFICE (Nevada Support Facility, 232 Energy Way, N. Las Vegas, Nevada Phone 702-295-3521):

From McCarran Airport, take Swenson north to Tropicana Avenue. Turn left on Tropicana going west to Interstate 15 north. You pass the MGM Grand (green hotel on right). Go across Las Vegas Blvd. past New York, New York hotel on the right. Turn right onto I-15. Continue on I-15 and take the Lake Mead West exit. From Lake Mead, turn right at the first stoplight on Losee Road. Continue north on Losee Road for about 3/4 mile (past stoplight at Carey). Turn left on Energy Way at the stoplight and continue straight to the NSF.

