

TRANSPORTATION WORKING GROUP MEETING MINUTES

Thursday, June 12, 2002 – 1:30 – 4:30 p.m.
North Las Vegas Airport Terminal
Grand Canyon Room

WELCOME & INTRODUCTIONS – Frank Disanza

Mr. Rex Massey of Research and Consulting Service, Inc. and Mr. Frank Disanza of NNSA/NV 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	Final Agenda
Enclosure 3	NNSA/NV FY2003 Environmental Management Budget Emergency Response Grants YTD FY2002 and FY2002 Forecast FY 2002 Cumulative Forecast and Cumulative Accuracy vs. Cumulative Actuals YTD Report on Dates to Avoid CA-127 Pre and Post 9-11 HAZTRAK Pages
Enclosure 4	Briefing: Transportation Accidents and GIS Mapping
Enclosure 5	Briefing: Wyoming Truck Incident
Enclosure 6	Briefing: Assessing Exposure to Public From Transporting LLW to the NTS

An agenda was provided to the attendees (See enclosure 2), the order of presentations was changed and agreed to by those in attendance.

During his opening remarks Mr. Disanza discussed the following topics:
(See enclosure 3)

The President's FY 2003 Environmental Management budget was \$58M
Cleanup reform totaled \$92.8M, the actual appropriation amount is still unclear.

Review of the Emergency Grant process and time table for grant proposals and distribution.

Current status of shipments and volume, vs. FY 2002 forecast. A brief explanation of Cumulative Efficiency and how it relates to the forecast and actual volumes received at the NTS.

A review of the transportation activity on CA-127 for the 6 peak event periods to date in FY 2002 that transportation activity was requested by Ms. Barbara Byron be restricted or reduced.

A review of the changes made to the HAZTRAK page available on the internet at <http://www.nv.doe.gov/programs/xportmgt/haztrak.asp> . These changes were required due to the events of September 11, 2001.

ACTION ITEM: Mr. Mike Alexander of the Nevada Division of Emergency Management noted that Livermore National Laboratory (LLNL) will begin a LLW shipping campaign in the near future. Mr. Frank DiSanza of NNSA/NV agreed that transportation routes will be discussed with LLNL prior to transport to ensure that the shipments do not travel in areas without radiological emergency response trained personnel.

ACTION ITEM: Mr. Joe Strolin of Nevada Agency for Nuclear Projects requested a copy of the latest CA-127 routing report. This report provides information on shipments made on CA-127 during periods of congestion as identified by Ms. Barbara Byron in a previous NTS TWG meeting. **Completed 6/13/2002**

ACTION ITEM: Andrew Remus of Inyo County requested that he be provided with a more detailed report on California routes. It was noted that Barbara Byron of California receives a detailed routing report. Mr. Remus will request this report from Ms. Byron in the future. **Completed 6/12/2002**

TRANSPORTATION ACCIDENTS AND GIS MAPPING– Jason Pitts – Lincoln/White Pine/BLM Cooperative Agreement

Mr. Jason Pitts provided an interesting briefing (See enclosure 4) on the use of GIS mapping to graphically identify areas in White Pine and Lincoln Counties where accidents have occurred. This information has been provided through a partnership with the Nevada Highway Patrol in the area. Mr. Pitts offered this information to NNSA/NV and their generators so that carriers responsible for transporting LLW in this area can be educated and are made aware of the local transportation risks.

WYOMING TRUCK INCIDENT– Scott Edwards – Flour Fernald

Mr. John Sattler introduced Mr. Scott Edwards of Fluor Fernald who presented the briefing on the Wyoming truck incident. Mr. Edwards stated that on March 28, 2002 at approximately 0700 MST a tractor-trailer carrying two Type A liquid-rated packages with one liter and 1.7 mCi of liquid Np-237/Pu-238 standard solution overturned on I-80 near Laramie, WY, due to high winds. The standard solution was being shipped from the Fernald Site near Cincinnati, OH, to Idaho National Engineering and Environmental Laboratory (INEEL) near Idaho Falls, ID. During the incident, the two packages remained strapped to a pallet and were not damaged. No radioactive liquid leaked from the package, as confirmed by the Wyoming State Police on the scene and by a U.S. Department of Energy (DOE) Radiological Assistance Program team from Rocky Flats at the towing company where the damaged vehicle was moved after the accident. The Fernald Emergency Operations Center was activated during this event and provided notifications to State and Local authorities, as well as DOE contacts. This incident and the response to it demonstrated the effectiveness of the Fernald Shipping and Emergency Preparedness Program." (See enclosure 5)

DRI TRANSPORTATION STUDY UPDATE– Julie Miller – Desert Research Institute

Ms. Miller updated the group on the proposed study to determine dose rate from inbound Low-Level Waste shipments to the Nevada Test Site. (See enclosure 6) Currently the hardware to be used for the study is being adjusted to handle the three types of vehicles anticipated to arrive at the NTS during the study period (Flatbeds, Vans, and Intermodal Trailers). A limited quantity of vehicles will be surveyed during FY 2002 with the

majority (estimated at 1,000 vehicles) to be surveyed in FY 2003. It is planned that all generators will participate in the study.

ACTION ITEM: Larry Franks of Nevada Radiological Health Section requested that he be advised of dates when PIC arrays will be calibrated. **Completed 6/13/2002;** Mr. John Carilli of NNSA/NV advised Ms. Julianne Miller of DRI to notify Mr. Franks office when a calibration date has been set.

TRANSPORTATION PROTOCOLS UPDATE – Lee Stevens - Navarro Research & Engineering

Mr. Stevens provided a brief overview (**No enclosure**) of the status of the protocols (Now a manual for DOE Order 460.2) Based upon recent information received from DOE Headquarters, the new target date for publication is by the end of June 2002. The protocols are currently in the office of EM-5 awaiting approval. Mr. Stevens also briefly discussed a Western Governors Association proposed plan to have all inter-site movements of Transuranic Waste (TRU) follow the Waste Isolation Pilot Plant Program Implementation Guide (WIPP PIG). The WIPP PIG is the WIPP's version of shipping protocols. It was determined subsequent to the meeting that only TRU shipments would be affected by this agreement. All other radioactive materials would follow the protocols in M-460.2

NEW BUSINESS

Mr. DiSanza thanked Mr. Massey for 2+ years of service as the NTS TWG Chairperson going above and beyond the time period he had signed on for. At that Frank stated that he would accept nominations for Rex's replacement as TWG Chairperson. No nominations were made at the meeting, however the process will include members that were not in attendance at this meeting. Mr. DiSanza can be reached at (702) 295-5855 for those wishing to provide nominations.

ADMINISTRATION AND NEXT MEETING

The date of Thursday, October 10, 2002 was selected for the next meeting. NNSA/NV will again obtain the Grand Canyon Room at the North Las Vegas Airport Terminal.

The meeting was adjourned at approximately 3:00 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.

Mr. DiSanza will discuss transportation routes with LLNL, prior to transport, ensuring that shipments do not travel in areas without radiological emergency response trained personnel. **Completed 7/8/2002**

Mr. DiSanza will provide Joe Strolin of Nevada Agency for Nuclear Projects with a copy of the latest CA-127 routing report. **Completed 6/13/2002**

Mr. Andrew Remus of Inyo County will request, from Barbara Byron of California, a copy of the detailed California routing report supplied to Barbara Byron by NNSA/NV.
Completed 6/12/2002

Mr. DiSanza will provide Larry Franks of Nevada Radiological Health Section with the dates when the Transportation Study PIC arrays will be calibrated.
Completed 6/13/2002

TRANSPORTATION WORKING GROUP ATTENDEES LIST
6/12/2002 MEETING

Mike Alexander Nevada Department of Emergency Management	Donna Allen Flour Fernald
Chris Binzer Robison/Siedler	Joyce Curlee NRE/TD
E. Frank Di Sanza NNSA/NV WMD	W. Scott Edwards Flour Fernald
Bryan Elkins, Director Community Development, Caliente	Larry Franks Nevada Radiological Health Section
John Hauser Tri-State Motor Transit Co.	Sean Kosinski NNSA/NV-ERD
Kelly Kozeliski NNSA/NV EM	Rex Massey Research and Consulting Service, Inc.
Julianne Miller Desert Research Institute	Jim Pegues City of Las Vegas
Jason Pitts Lincoln County	John Sattler DOE Fernald Area Office
Andrew Remus Inyo County	Dale Schutte
Lee J. Stevens NRE/WMD	Joe Strolin Nevada Agency for Nuclear Projects
John B. Walker Nevada Division of Environmental Protection	

Transportation Working Group Meeting

North Las Vegas Airport
2730 Airport Drive
North Las Vegas, NV
Grand Canyon Room
Wednesday June 12, 2002
1:30- 4:30 PM

AGENDA

1:30	Welcome and Introductions	Rex Massey/Frank DiSanza
1:45	Wyoming Truck Incident Briefing	John Sattler/DOE-OH
2:15	DRI Transportation Study	Julie Miller/DRI
2:45	Transportation Protocols Update	Lee Stevens/NRE
2:50	Break	
3:20	Transportation Accidents and GIS Mapping	Jayson Pitts/Lincoln County
4:10	New Business and Next Meeting	Rex Massey/Frank DiSanza
4:30	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.

REVISED 6/6/2002

NEVADA TEST SITE
TRANSPORTATION WORKING GROUP
MEETING

JUNE 12, 2002

NNSA/NV EM FY03 Budget

- **President's Request** **\$58.0 M**
- **Cleanup Reform** **\$92.8 M**
- **Actual Appropriations** **???????**

Emergency Response Grants

- **6/15/2002: Applications due to NNSA/NV (\$1M available + an additional \$300K dependent upon volumes)**
- **6/19-20/2002: Grant Review Committee visit Counties**
- **6/27/2002: Committee briefs EPWG on recommendations**
- **By 7/15/2002: State submits Consolidated Grant Proposal**
- **November 2002: Funds are made available to Counties**

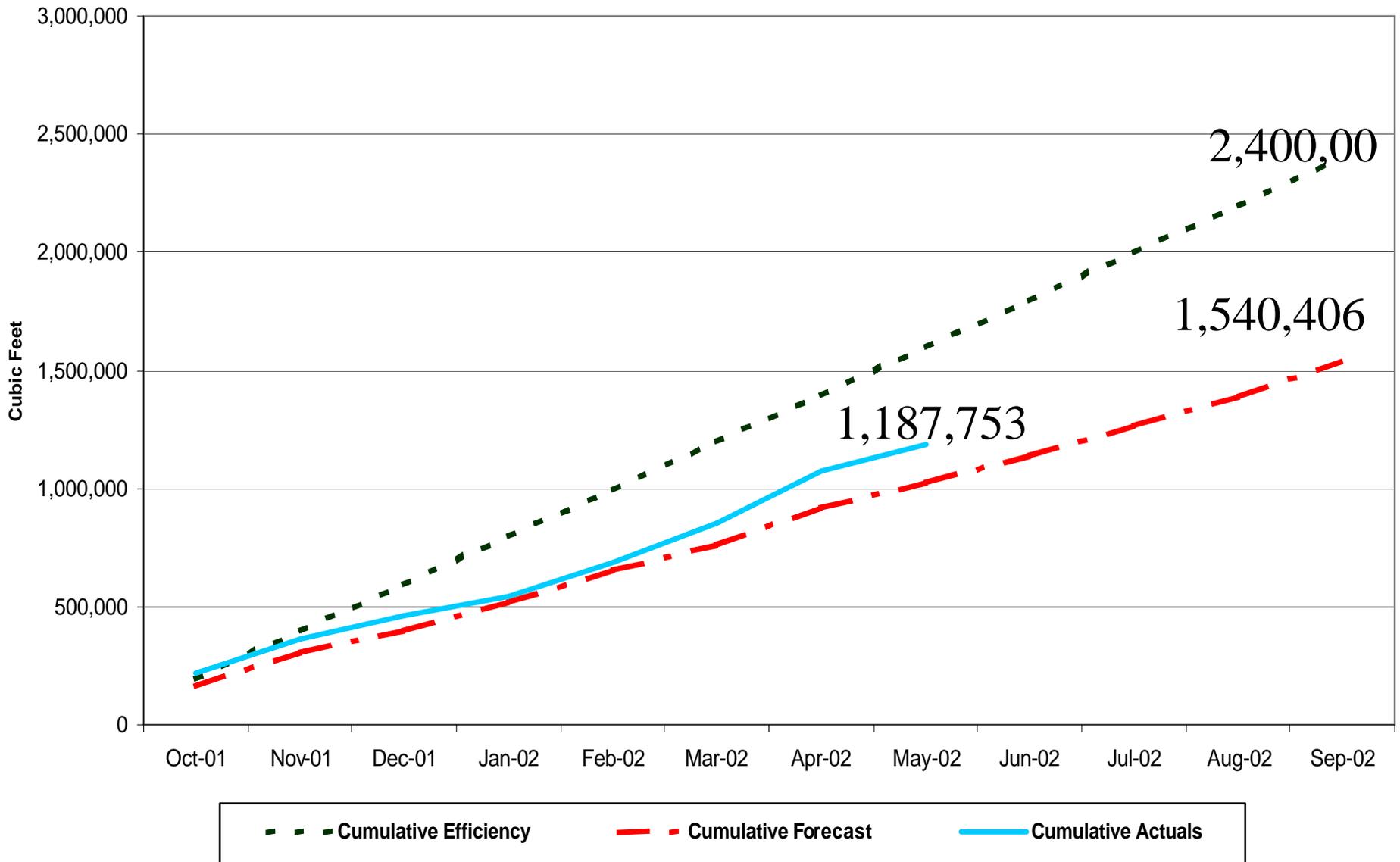
Emergency Response Grants

- **Base Funding \$100K for each County**
- **\$400K Distributed based upon recommendations of Review Committee and Grant Applications received**
- **Incremental funding amount of \$290,277 approved based upon FY02 volumes**
 - Distributed equally among 5 of 6 counties, or \$58K each (Clark County received base funding of \$25K)**
- **Total funding for FY02 is \$770,203**

YTD FY 2002 (OCTOBER 2001 TO APRIL, 2002) AND FY 2002 FORECAST

FIELD OFFICE (GENERATOR)	SHIPMENTS	VOLUME (FT3)	FORECAST
ABERDEEN	2	846	1,434
ALBUQUERQUE (Sandia CA/NM)	10	12,001	15,649
CHICAGO (Princeton Plasma Physics)	29	16,017	27,318
IDAHO	2	1,472	1,766
NEVADA (Bechtel Nevada, IT Las Vegas)	12	7,934	17,481
OAKLAND (Boeing Rocketdyne, LLNL/CA)	32	24,017	47,667
GA CORPORATION	4	2,095	12,850
OAK RIDGE (Oak Ridge National Lab, ORNL-Y12, DOE-OR, British Nuclear Fuels, Paducah)	239	289,873	480,505
OHIO (Fernald, Mound, Earthline, West Valley)	163	214,314	310,492
ROCKY FLATS	237	489,717	600,000
SAVANNAH RIVER (Savannah River Site)	17	14,979	25,244
TOTALS	747	1,073,265	1,540,406

FY 02 Cumulative Forecast and Cumulative Efficiency vs. Cumulative Actuals



USE OF CALIFORNIA ROUTE 127 DURING PEAK TOURIST DATES

CHRISTMAS WEEK, 12/23-29/ 2001 : 0 Shipments

NEW YEARS WEEK, 12/30/2001 to 1/5/2002: 0 Shipments

MLK BIRTHDAY WEEKEND, 1/18-22/2002: 1 Shipment

PRESIDENT'S DAY OFF HIGHWAY EVENT, 2/15-19/2002: 0 Shipments

PRESIDENT'S DAY WEEKEND, 2/22-25/2002: 1 Shipments

EASTER WEEKEND OFF-HIGHWAY EVENT, 3/22-31/2002: 5 Shipments

PRE 9-11 HAZTRAK WEB PAGE

HAZTRAK - Microsoft Internet Explorer provided by DOE/NV

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

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

1:45 PM

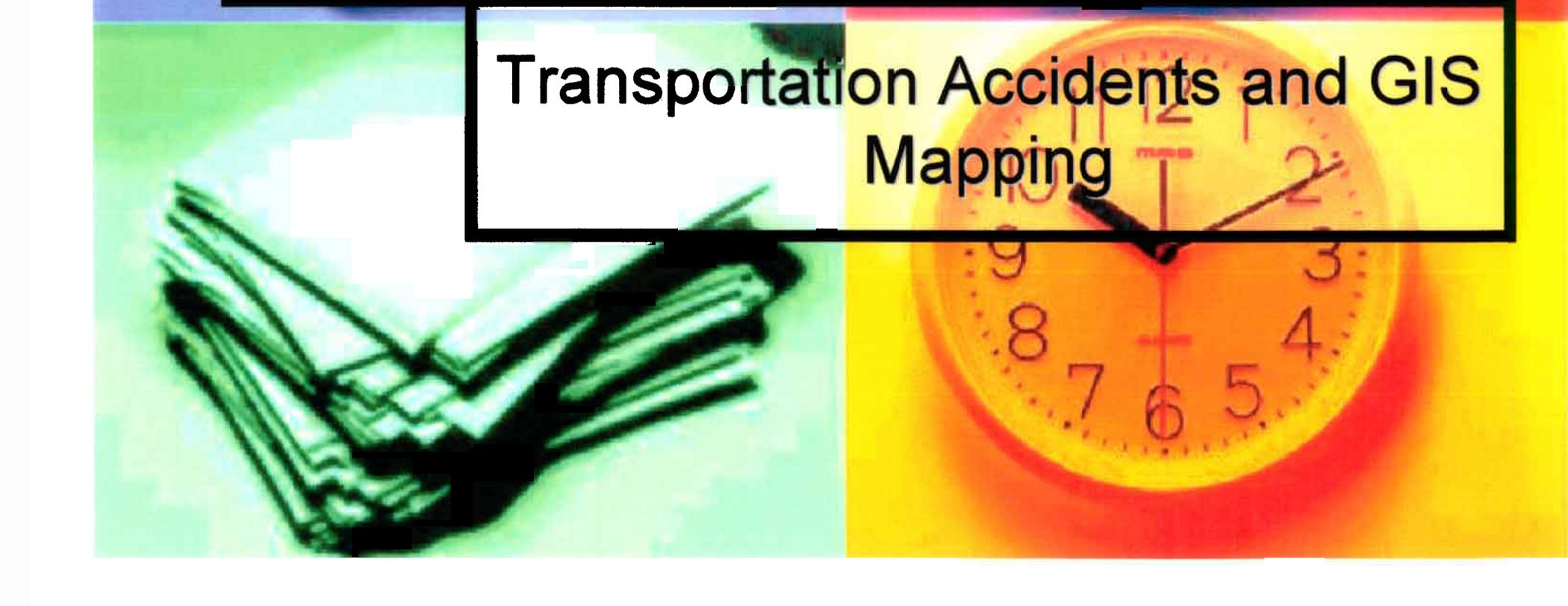
Internet

POST 9-11 HAZTRAK WEB PAGE

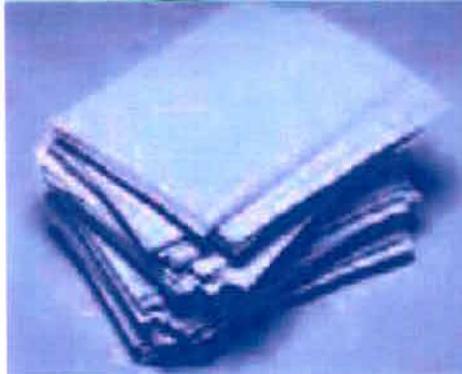
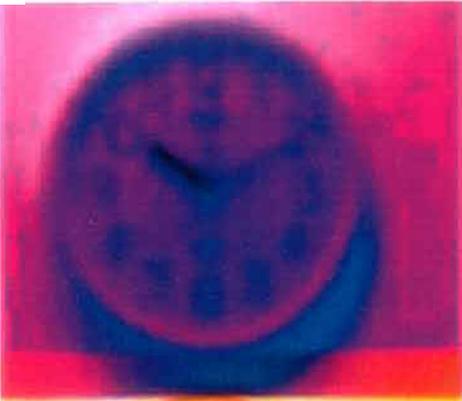
Tracking Number	MDL02018
Originating Company Name	BWXT OF OHIO
Destination Company Name	BECHTEL NEVADA
Guide Number	162
UN NA Number	2912
Inhalation Hazard	
Description	RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA), N.O.S.
Units	4433 POUND(S)
Packages	1 BOX(ES)



Transportation Working Group Meeting

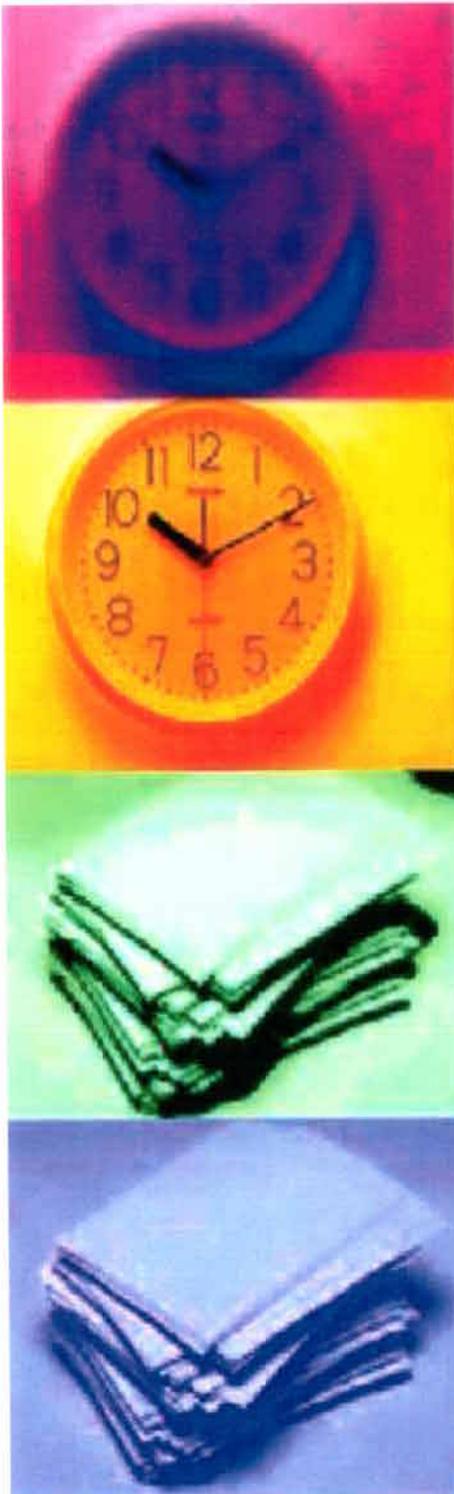


Transportation Accidents and GIS Mapping



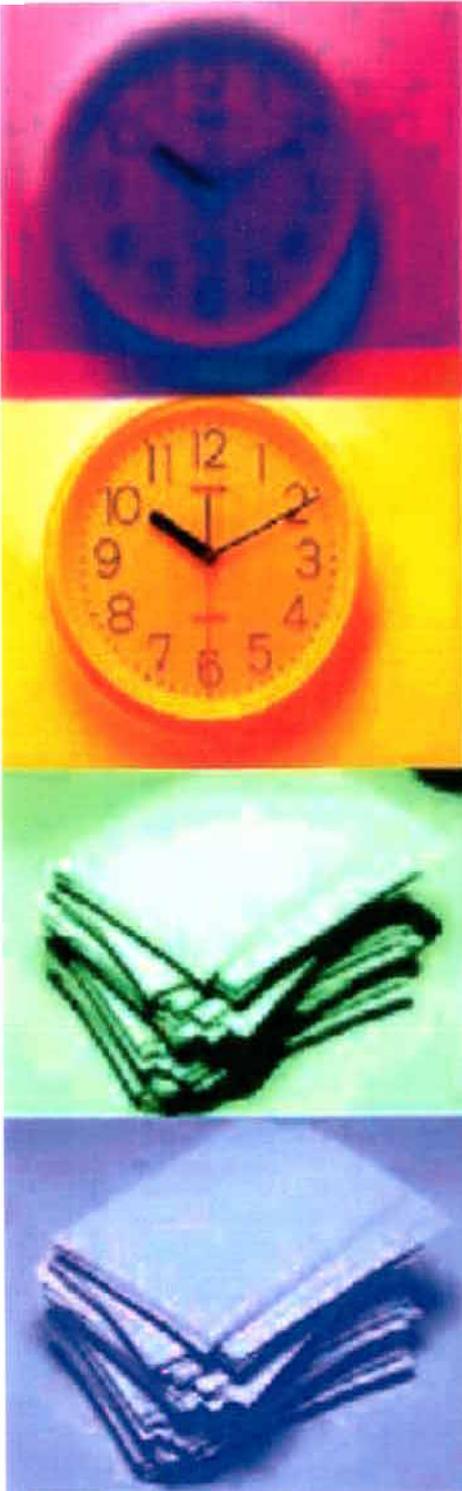
Transportation Accidents and GIS Mapping

- Jason Pitts, Consultant for the Lincoln/White Pine/BLM Cooperative Agreement
- Lincoln County Project Office Number: (775) 726-3511



Transportation Accidents and GIS Mapping

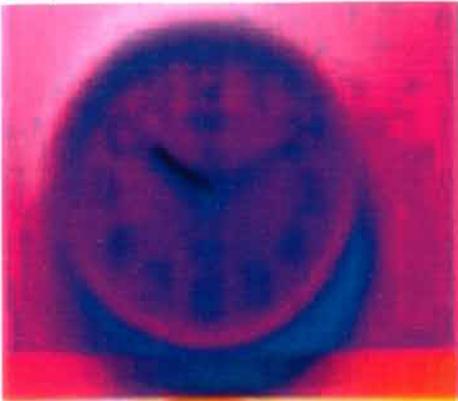
- Types of Projects Under this Agreement
 - Basemaps
 - Infrastructure layers
 - Accident Mapping



Transportation Accidents and GIS Mapping

■ Accident Mapping

- Worked with Lincoln County NHP
- Utilized Spreadsheet data indexed by Mile Marker
- Created Highway Layer with Mile Markers and layered data
- Created Projects by Quarter detailing different types of Accident Types



Transportation Accidents and GIS Mapping

- Animal Accidents on Roadway

Lincoln County, Nevada

Accidents Caused By Animals On The Roadway October 1999 to December 1999

Drafted:
March 19, 2001

Legend

-  County Boundary
-  Highway
-  Federal
-  State
- October through December:**
-  ANIMAL ON ROADWAY COW
-  ANIMAL ON ROADWAY DEER
-  ANIMAL ON ROADWAY ELE.
-  ANIMAL ON ROADWAY HORSE

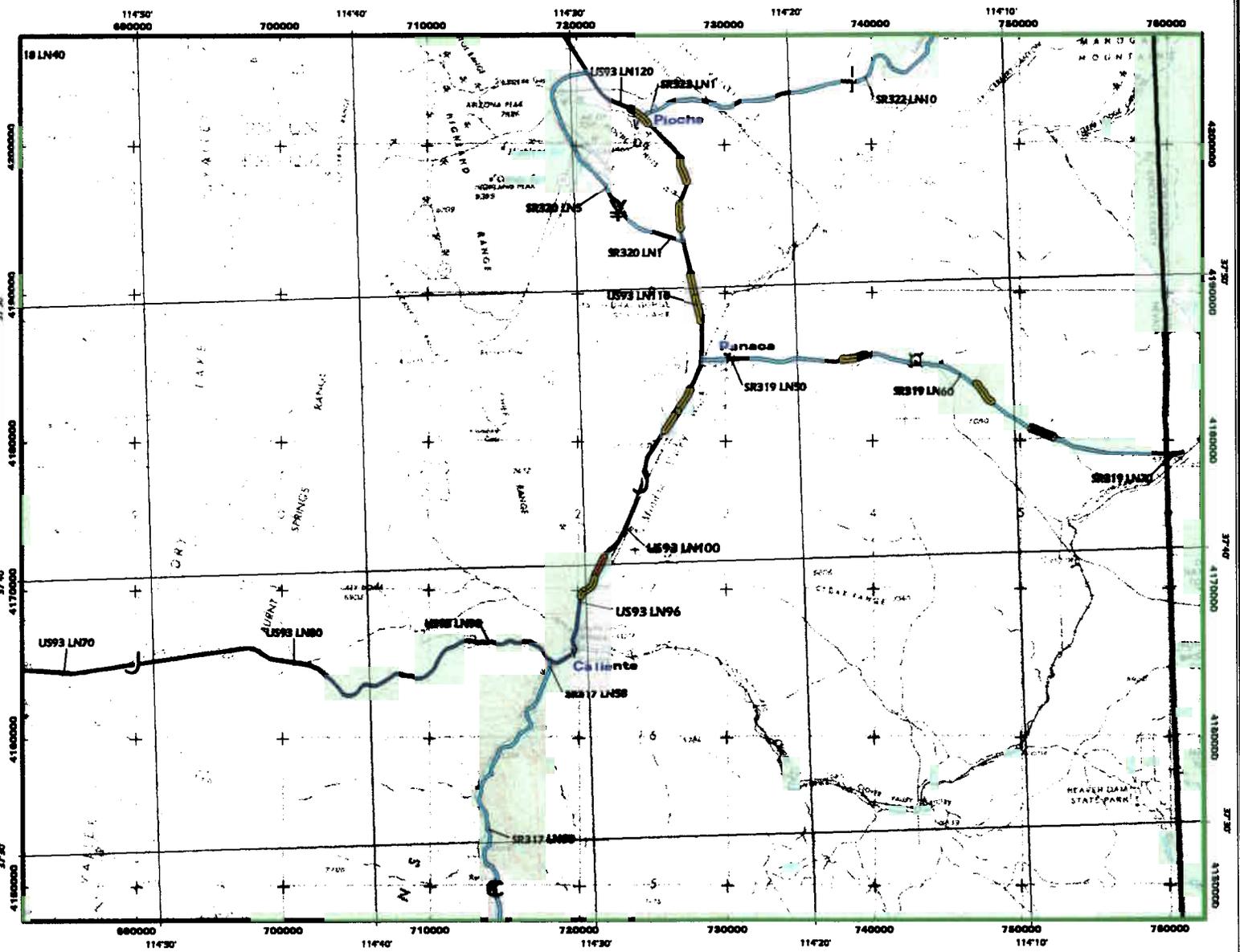
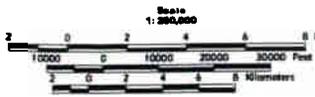


State of Nevada



Enlarged Area

Map Projection: Transverse Mercator
Coordinate System: Universal Transverse Mercator
Zone: 11
Datum: North American Datum of 1927



Wyoming Truck Incident

W. Scott Edwards

Flour Fernald











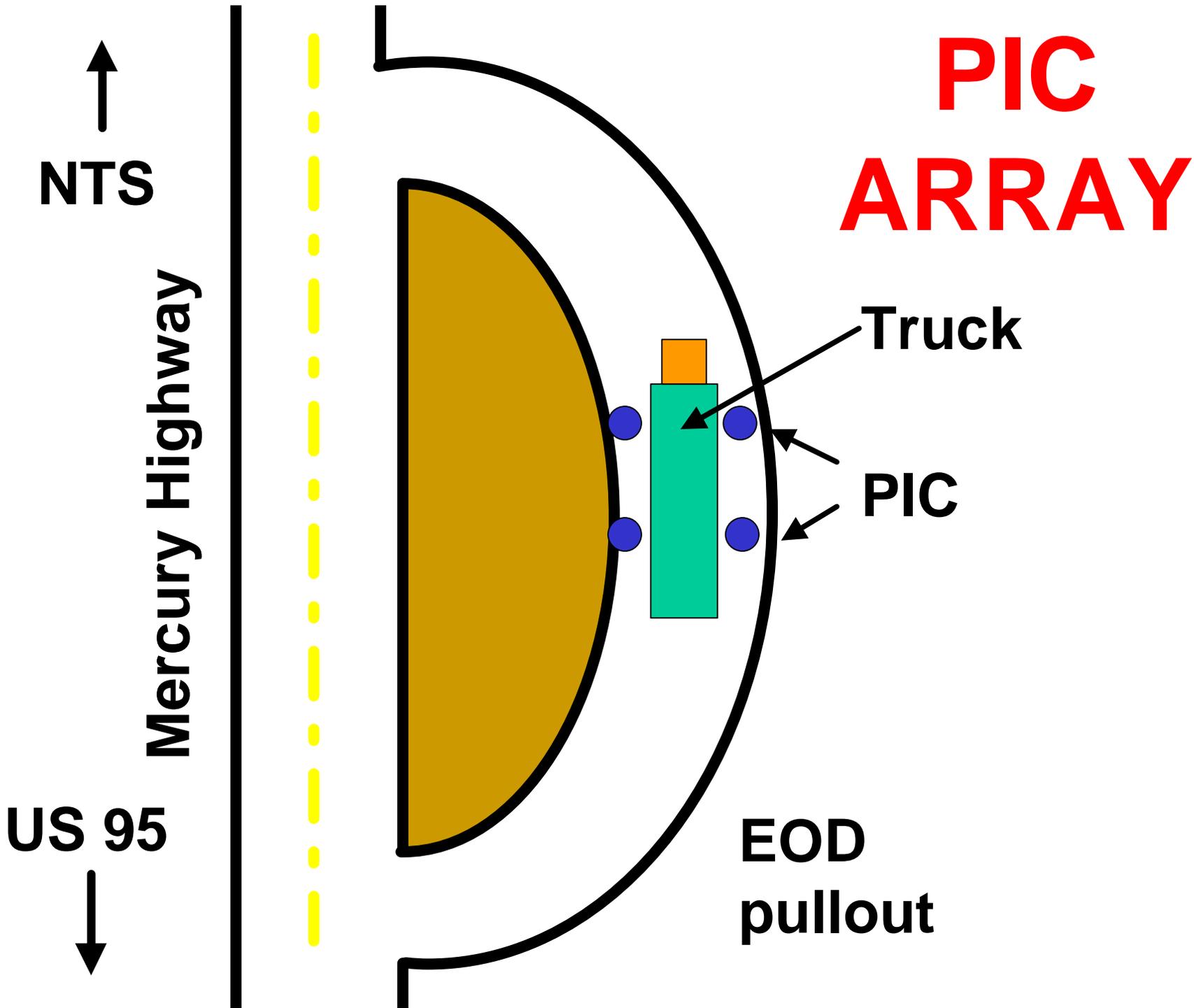


Assessing Exposure to Public from Transporting LLW to the NTS



DRI Study

- **A stationary monitoring system will be set up on the NTS using an array of Pressurized Ionization Chambers (PICs) to make radiological measurements of trucks transporting LLW to the NTS.**
- **Public perception of risk of exposure**



Study Hypothesis

- Potential dose integrated from a set of 4 PICs.**
 - The PICs, the truck, and the waste are at fixed points, thus increasing study accuracy.**
- Potential maximum dose equated to all waste shipments based on measurements from a large number of shipments and waste types.**

PIC Array Geometry

- **PIC Geometry will be based upon:**
 - **1. Truck types**
 - **3 truck types are expected to be in the study.**
 - » **Intermodal (very low flatbeds and low containers)**
 - » **Flatbeds**
 - » **Dry goods vans**
 - **2. PIC calibration in field**
 - **Spatial distribution of source to PIC**
 - **3. Records of 25 past shipments of LLW**

PIC Array Geometry

- **Goals:**
 - **Avoid swamping detectors**
 - **Sensitive enough to get readings on all shipments**
- **Stationary array allows more data points to be measured**

DRI Study Database

- **Database configuration and information:**
 - PIC background readings
 - PIC truck readings
 - Route information (highways, towns, time)
 - Container type and ID
 - Truck and driver ID
 - Total Dose (from packages inside truck)
 - Weather conditions from Desert Rock Airfield
- **Data from:**
 - PICs
 - Existing database at RWMS
 - Drivers' paperwork
 - Weather station

Schedule: FY02

- **FY02: Start Up Plan**
 - **A location on the NTS has been selected.**
 - **PIC array will be installed and tested.**
 - **Background data for the site will be collected.**
 - **PIC data will be collected and analyzed from a limited number of trucks during FY02.**
 - **Database for monitoring data will be set up and maintained.**

Schedule: FY03

- **FY2003: Main Data Collection Phase**
 - **Gamma readings collected from as large a population of trucks as possible.**
 - **Data collected on road configurations in towns along routes for developing dose scenarios.**
 - **Final report incorporating data, calculation of quasi-cumulative dose, and comparison of data to IAEA and DOT standards.**

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
- **Bruce Church**
 - 702-398-3911
 - churchbw@comnett.net