

TRANSPORTATION WORKING GROUP MEETING MINUTES

Thursday, February 7, 2002 – 1:30 – 4:30 p.m.
Grant Sawyer Building
Room 1100

WELCOME & INTRODUCTIONS – Frank Disanza

Mr. Frank Disanza of NNSA/NV welcomed all attendees to the Nevada Test Site Transportation Working Group (TWG) meeting. Frank announced that the Chairman, Rex Massey, was unable to attend due to illness. 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 | FY2003 Waste Management Budget YTD FY2002 and FY2002 Forecast FY2002 Cumulative Forecast and Cumulative Accuracy vs. Cumulative Actuals Specific Proposed Dates to Avoid CA-127 |
| Enclosure 4 | Briefing: West Valley Leaking Container |
| Enclosure 5 | WIPP Emergency Training Exercise Slide Show |
| Enclosure 6 | Briefing: Assessing Exposure to Public From Transporting LLW to the NTS |
| Enclosure 7 | Briefing: Update on Progress for Rail to Truck Transload Options Via Southwest Utah to NTS |
| Enclosure 8 | Briefing: Protocols Update |

An agenda was provided to the attendees (See enclosure 2), no changes were made, other than Mr. Massey not being in attendance.

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

FY 2003 Waste Management budget, \$58M in FY2003, down from \$85M in FY2002. He also identified the website where more information on the budget could be found.

Current status of shipments and volume, vs. FY2002 forecast. Due to the September 11 terrorist attacks, and the resulting prohibition that ensued, the current actuals are lower than the forecast.

Dates that generators and carriers are to consider when making shipment through the CA-127 shipping corridor. These dates, which include holiday gatherings in the area and flash flood and fire seasons, were provided by Ms. Barbara Byron and will be forwarded to generators in the near future.

Mr. Disanza closed his opening remarks by stating the “FY2001 Annual Report of Radioactive Waste Shipments To and From the Nevada Test Site” would soon be completed and available on the internet.

Mike Alexander requested that an Adobe Acrobat version of the report be forwarded to him, when available. **ACTION ITEM**

WEST VALLEY LEAKING CONTAINER BRIEFING– Gary Pyles - NNSA/NV WMD

Mr. Pyles reviewed the events that led to corrective actions being proposed by West Valley Demonstration Project (WVDP) as the result of the packaging incident in West Wendover. (See enclosure 4) Gary stated that the Radioactive Waste Acceptance Program has reviewed and approved all corrective actions made by WVDP and are again approved to make shipments. Several different internal DOE/contractor organizations (Headquarters, WVDP) groups investigated this incident. The carriers were not investigated, as this was an internal issue, in fact it was noted that the carrier did an exceptional job of notifying DOE of the incident.

WIPP EMERGENCY RESPONSE TRAINING EXERCISE (WIPPTREX) UPDATE – Mike Alexander – State of Nevada Division of Emergency Management

Mr. Alexander described the training exercise that occurred January 6th, 2002 at the Nevada Test Site, near the Lathrop Wells entrance. Mike provided a slide show of pictures taken during the exercise. (See enclosure 5 -- available upon request.)

State and local officials have been working on WIPP shipping issues for two years while specific planning for the exercise occurred over the past 12 months. All first responders were trained and provided with specialized radiological equipment starting in the Summer of 2000. There was unprecedented interagency cooperation during the WIPPTREX planning process and in support of the actual exercise. Nye County officials and state officials very much appreciate the level of financial and staff support provided by NNSA/NV, including the mutual aid support to the Amargosa Volunteer Fire Department and the Beatty Volunteer Ambulance Service (these agencies could not have participated without mutual aid support).

The exercise involved over 60 players from 14 agencies responding to a mock transportation accident involving a WIPP vehicle and 2 vehicles, 1 contained a small radioactive material shipment. Responders were pre-staged near Amargosa Valley for the exercise. A staff of approximately 100 people supported the exercise, while almost 40 observers were on hand.

The Energy Secretary's Yucca Mountain announcement days prior to the exercise peaked media interest in the exercise at the last moment, however, the PIO Group was well prepared for such a contingency and did a great job.

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) The main change to the study will be that instead of determining dose rate made from obtaining rates during over the road operations, the does rates will be determined by surveying the actual shipments when they arrive at the NTS and calculating them based upon routes taken. Equipment to be used during the study is now being set up and calibrated at DRI in Las Vegas. The revised study will allow for all generators to have shipments surveyed, while streamlining the collection process. Data will be collected on a limited basis in FY2002, with the majority of data being collected in FY2003.

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

Mr. Greg Copeland provided an update of the proposed transload facility located near Milford, UT. (See enclosure 7) Conclusions in the briefing were that intermodal transportation meets stakeholders concerns, and both increases safety while lowering costs of transporting LLW. Local community support has been expressed and Greenfield Logistics is proceeding with due process with the county government.

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). Based upon recent information received from DOE Headquarters, the new target date for publication is by the end of March 2002. At that time the protocols will also be available on the internet, NNSA will put a link to them on their web site. (See enclosure 8)

NEW BUSINESS

An update on the status of shipments being transported from LLNL (Davis, CA) was requested by Mike Alexander. Mr. Disanza stated that the particular shipping campaign was winding down, if not already completed. NNSA/NV and the generator had discussed the issue and were knowledgeable of the situation and were taking actions to educate the carriers not to travel in Northern Nevada.

ADMINISTRATION AND NEXT MEETING

The date of Wednesday June 12, 2002 was selected for the next meeting. NNSA/NV will attempt to obtain the same room in the Grant Sawyer Building for the meeting.

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.

Frank Disanza will provide an Adobe Acrobat version of the *FY2001 Annual Report Radioactive Waste Shipments To and From the Nevada Test Site* to Mike Alexander, when available. The report will be made available to all stakeholders via the internet.

TRANSPORTATION WORKING GROUP ATTENDEES LIST
2/7/2002 MEETING

| | |
|---|---|
| Mike Alexander Nevada Department of Emergency Management | Bruce Davis Fluor Fernald |
| Les Bradshaw Nye County | Jhon Carilli NNSA/NV-WMD |
| Greg Copeland Greenfield Logistics, Inc. | Clete Cus City of North Las Vegas |
| E. Frank Di Sanza NNSA/NV-WMD | Bryan Elkins, Director Community Development, Caliente |
| LaTomya Glass NNSA/NV-OPAI | John Hauser Tri-State Motor Transit Co. |
| Sean Kosinski NNSA/NV-ERD | Marian Lawrence |
| Donnie Lester Tri-State Motor Transit Co. | Julianne Miller Desert Research Institute |
| Joni Norton NNSA/NV-WMD | Jim Pegues City of Las Vegas |
| Max Powell Bechtel/SAIC YMP | Andrew Remus Inyo County |
| Sue Rice Greenfield Logistics, Inc. | John Sattler DOE Fernald Area Office |
| Dale Schutte | Lee J. Stevens NRE/WMD |
| Carrie Stewart PBSJ | Kalynda Tilges Citizen Alert |
| John B. Walker Nevada Division of Environmental Protection | |

NTS Transportation Working Group Meeting

Grant Sawyer Building
555 East Washington Avenue
Las Vegas, NV
Meeting Room 1100
Thursday February 7, 2002
1:30- 4:30 PM

AGENDA

| | | |
|-----------|---|--|
| 1:30-1:45 | Welcome/Introductions | Rex Massey- R&CSI Frank Disanza-NNSA/NV |
| 1:45-2:00 | Results of the West Valley Demonstration Project Radioactive Waste Acceptance Program Audit | Gary Pyles-NNSA/NV |
| 2:00-2:30 | WIPP Emergency Response Training Exercise Update | Mike Alexander-NVDEM |
| 2:30-3:00 | DRI Transportation Study Update | Julie Miller-DRI |
| 3:00-3:15 | Break | |
| 3:15-3:45 | Southern Utah Transload Operations Update | Greg Copeland Greenfield Logistics, LLC |
| 3:45-3:55 | Protocols Update | Lee Stevens-NRE |
| 3:55-4:15 | New Business/General Discussion | Rex Massey-R&CSI |
| 4:15 | Adjourn Meeting | Rex Massey-R&CSI |

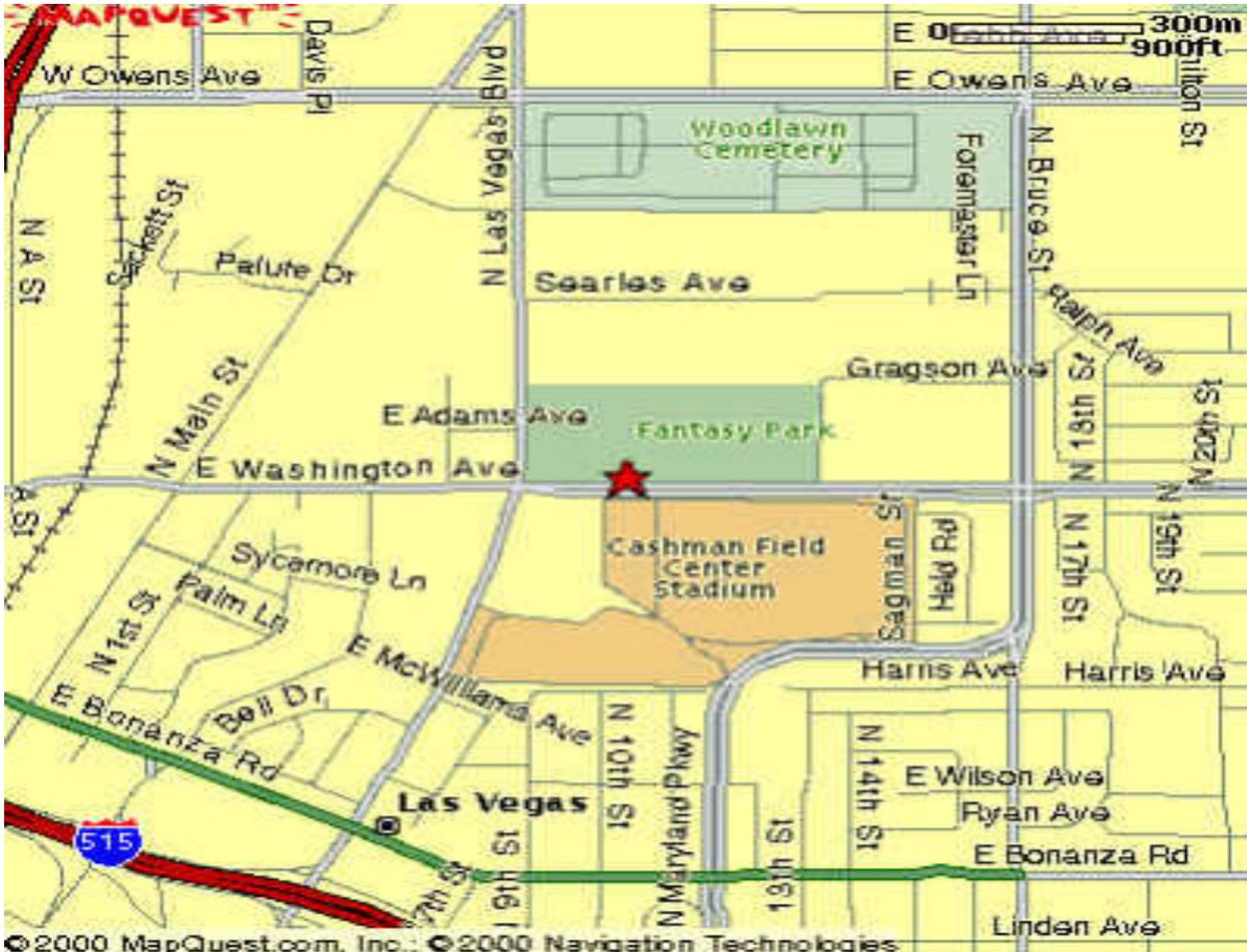
Revised 1/25/2002

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: The new meeting room does not have telephone capabilities, therefore we cannot teleconference during this meeting.

Grant Sawyer Building
555 East Washington Avenue
Las Vegas, NV 89101

NORTH



SOUTH

NEVADA TEST SITE
TRANSPORTATION WORKING GROUP
MEETING

FEBRUARY 7, 2002

FY 2003 BUDGET

FY2001

\$87M

FY2002

\$85M

FY2003

\$58M

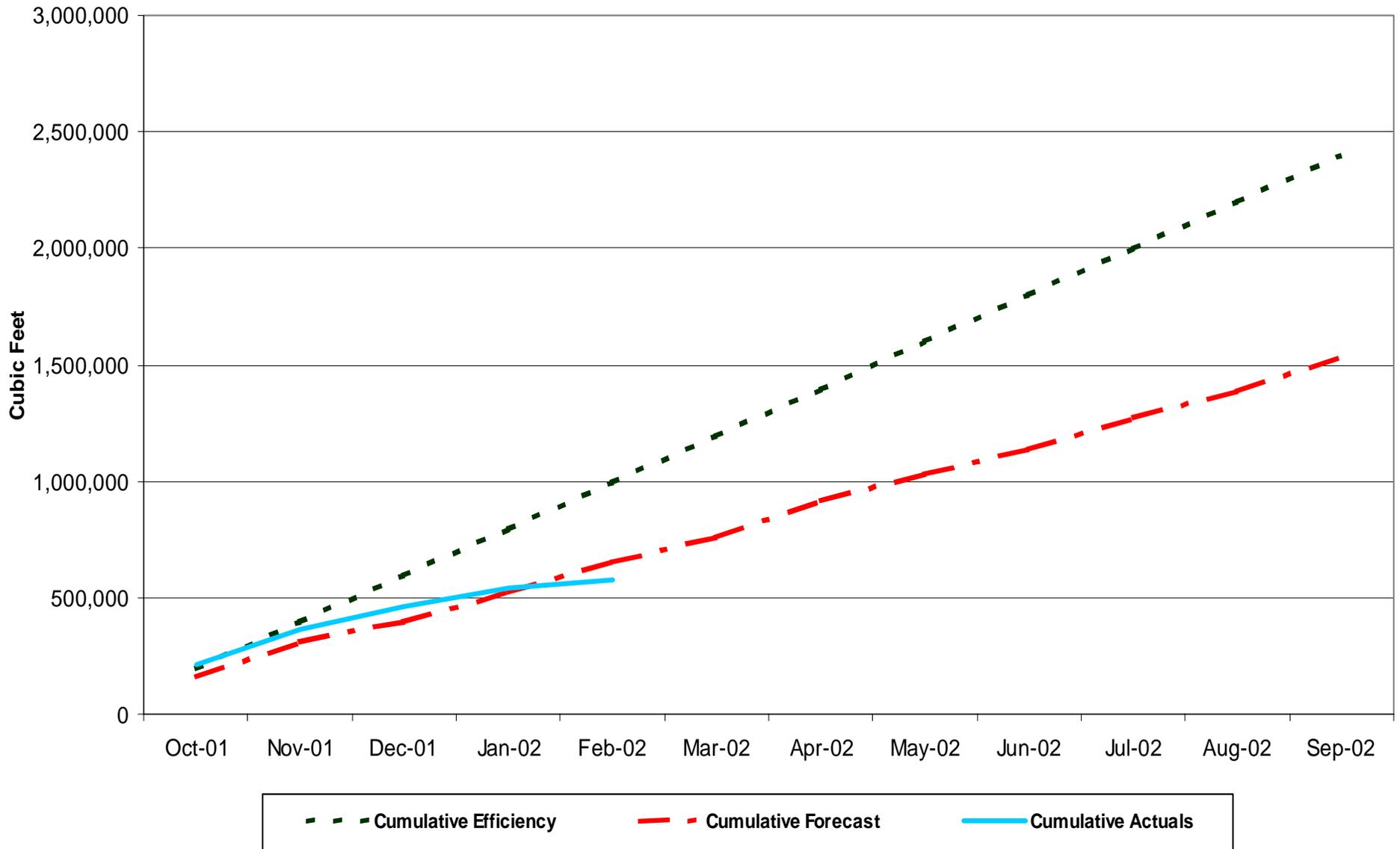
- **FY 2003 BUDGET REQUEST TO CONGRESS**
- **TOP TO BOTTOEM REVIEW OF EM AND RELATED DOCS**

AVAILABLE AT: <http://www.em.doe.gov/index4.html>

LOW-LEVEL RADIOACTIVE WASTE SHIPMENTS TO THE NEVADA TEST SITE**YTD FY 2002 (OCTOBER 2001 TO JANUARY, 2002) AND FY 2002 FORECAST**

| FIELD OFFICE (GENERATOR) | OFFSITE SHIPMENTS | VOLUME (FT3) | FORECAST |
|---|--------------------------|---------------------|------------------|
| ABERDEEN | 2 | 846 | 1,434 |
| ALBUQUERQUE (Sandia CA/NM) | 7 | 7,305 | 15,649 |
| CHICAGO (Princeton Plasma Physics) | 9 | 6,471 | 27,318 |
| IDAHO | 0 | 0 | 1,766 |
| NEVADA (Bechtel Nevada, IT Las Vegas) | 0 | 7,894 | 17,481 |
| OAKLAND (Boeing Rocketdyne, LLNL/CA) | 30 | 22,602 | 47,667 |
| GA CORPORATION | 0 | 0 | 12,850 |
| OAK RIDGE (Oak Ridge National Lab, ORNL-Y12, DOE-OR, British Nuclear Fuels, Paducah) | 114 | 145,221 | 480,505 |
| OHIO (Fernald, Mound, Earthline, West Valley) | 116 | 157,286 | 310,492 |
| ROCKY FLATS | 111 | 222,800 | 600,000 |
| SAVANNAH RIVER (Savannah River Site) | 6 | 5,202 | 25,244 |
| TOTALS | 395 | 575,627 | 1,540,406 |

FY 02 Cumulative Forecast and Cumulative Efficiency vs. Cumulative Actuals



SPECIFIC PROPOSED DATES TO AVOID CA-127

- Presidents' Day Off-Highway Event at Dumont Dunes; February 15-19 and Presidents' Day Weekend; February 22-25
- Off-Highway vehicle Gathering at Dumont Dunes on Easter weekend; March 22-31
- Baker to Vegas Challenge Cup Relay; April 18-23, 2002
- Fourth of July weekend, July 3-8
- Shoshone Old West Days, November 3-10
- Death Valley Forty-Niner Encampment Days; November 6-11
- Thanksgiving Gathering at Dumont Dunes; November 27-December 1
- Christmas-New Year's; December 21, 2002-January 5, 2003

PROPOSED SEASONAL REASONS TO AVOID CA-127

- Presidents' Day thru Easter; High Activity in Area
- June thru September; Higher Flash Flood Risk
- April thru October; Peak Fire Season

Ms. Barbara Byron (916) 654-4976

Annual Report- FY2001

- **Radioactive Waste Shipments To And From The Nevada Test Site**

- **Available on the web at:**

www.nv.doe.gov/news&pubs/publications/envm/default.htm

Look Under “Environmental Management”

**Radioactive Waste Acceptance Program
(RWAP)
West Valley Leaking Container**

Gary L. Pyles
RWAP Task Manager
(702) 295-2969

List of Events

- 7/30/2001 – NNSA/NV is notified of Leaking Container in West Wendover, NV
- West Valley Suspended Shipments
- 8/14/2001 - NNSA/NV issued Corrective Action Request to West Valley

List of Events

- 9/25/2001 – Corrective Action Plan submitted from West Valley
- 10/23/2001 – NNSA/NV RWAP conducted Surveillance of West Valley
- 11/13/2001 – NNSA/NV Concurred with West Valley to Continue Shipments

Corrective Action Plan

- Corrective Actions taken
- Root Cause – Process for packaging waste
- Action to Preclude Recurrence– revise several procedures and additional training
- Completion Date – 9/20/01

RWAP Surveillance

- CAP and Investigation Report
- Revised West Valley Procedures
- Inspection Records
- Personnel Training

Assessing Exposure to Public from Transporting LLW to the NTS



LLW Facts

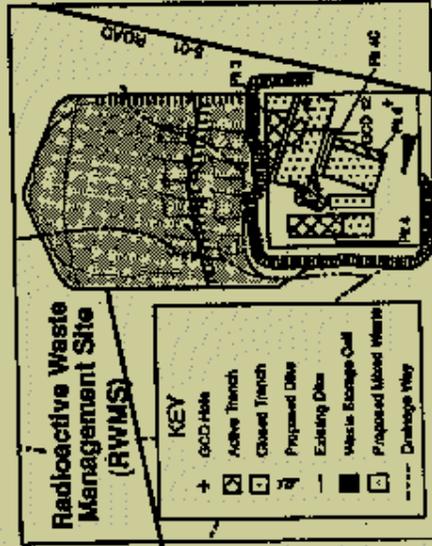
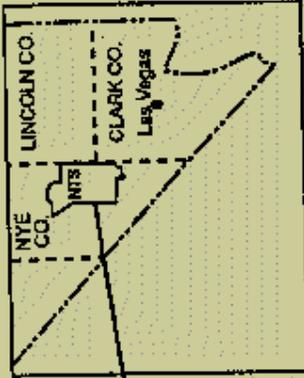
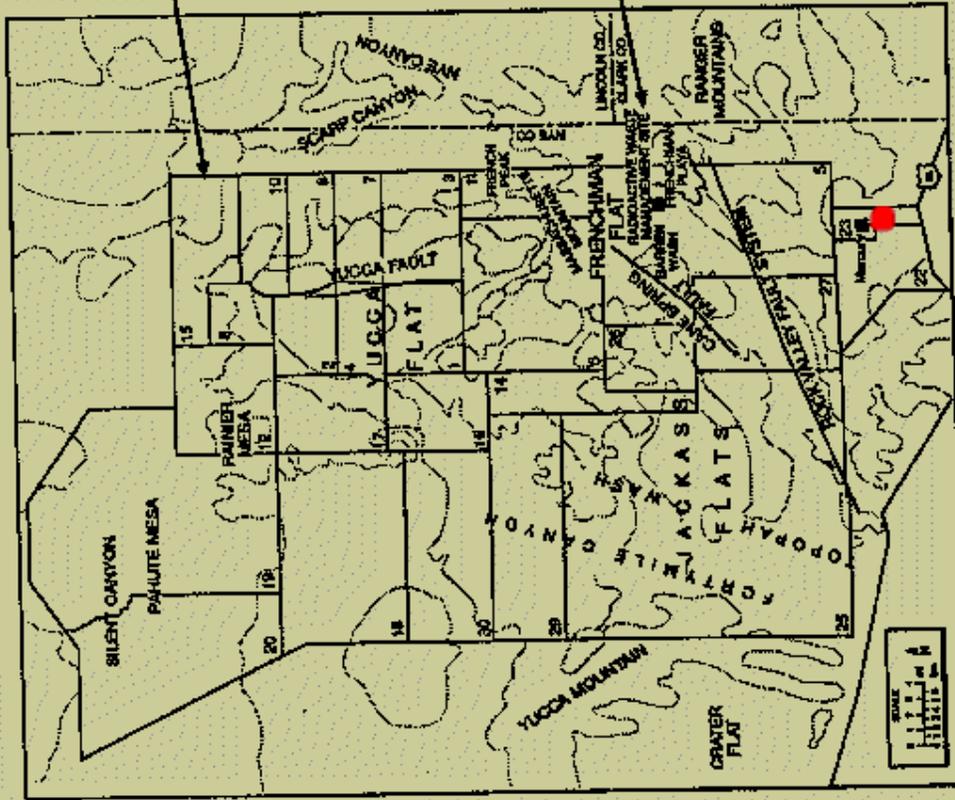
- **600,000 cubic feet of Low-Level Waste transported annually to NTS from other DOE sites**
- **Expected to continue for a decade**
- **Expected increase in LLW volume between FY02 and FY07.**

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**
 - **Radiation exposure from LLW truck shipments is probably negligible; however, important to address perceived risk.**

Study Hypothesis

- **A quasi-cumulative potential dose to a hypothetical public individual will be calculated from a set of exposure measurements. With specifics on truck types, waste packaging, highway alignments, etc., this data can be equated to the potential maximum dose from all waste shipments projected to pass through a particular town in a given year.**



Revision of Study

- **Original Study**
 - Dosimeters attached to trucks
 - Two generators and haul routes
 - Laboratory analysis
 - Complicated chain-of-custody and QA
- **Revised Study**
 - Stationary monitoring system of PIC array
 - All generators (thus all haul routes)
 - No laboratory analysis necessary
 - QA and Chain-of-Custody simplified

DRI Revised Study

Revised

- A stationary monitoring system will be set up on the NTS using an array of PICs to make radiological measurements of trucks transporting LLW to the NTS.

Original

- Problems with the TLDs attached externally to trucks.

PIC Array Design

Photo Ionization Chamber (PIC) Array:

- 2 PICs on each side of a pull-through driveway. LLW truck will park between array. Driver will enter log-in information.
- Reading for standard time period (5 to 10 min) for integrated gamma reading of truck-trailer.
- Empty truck will be re-surveyed upon exit.

↑
NTS

Mercury Highway

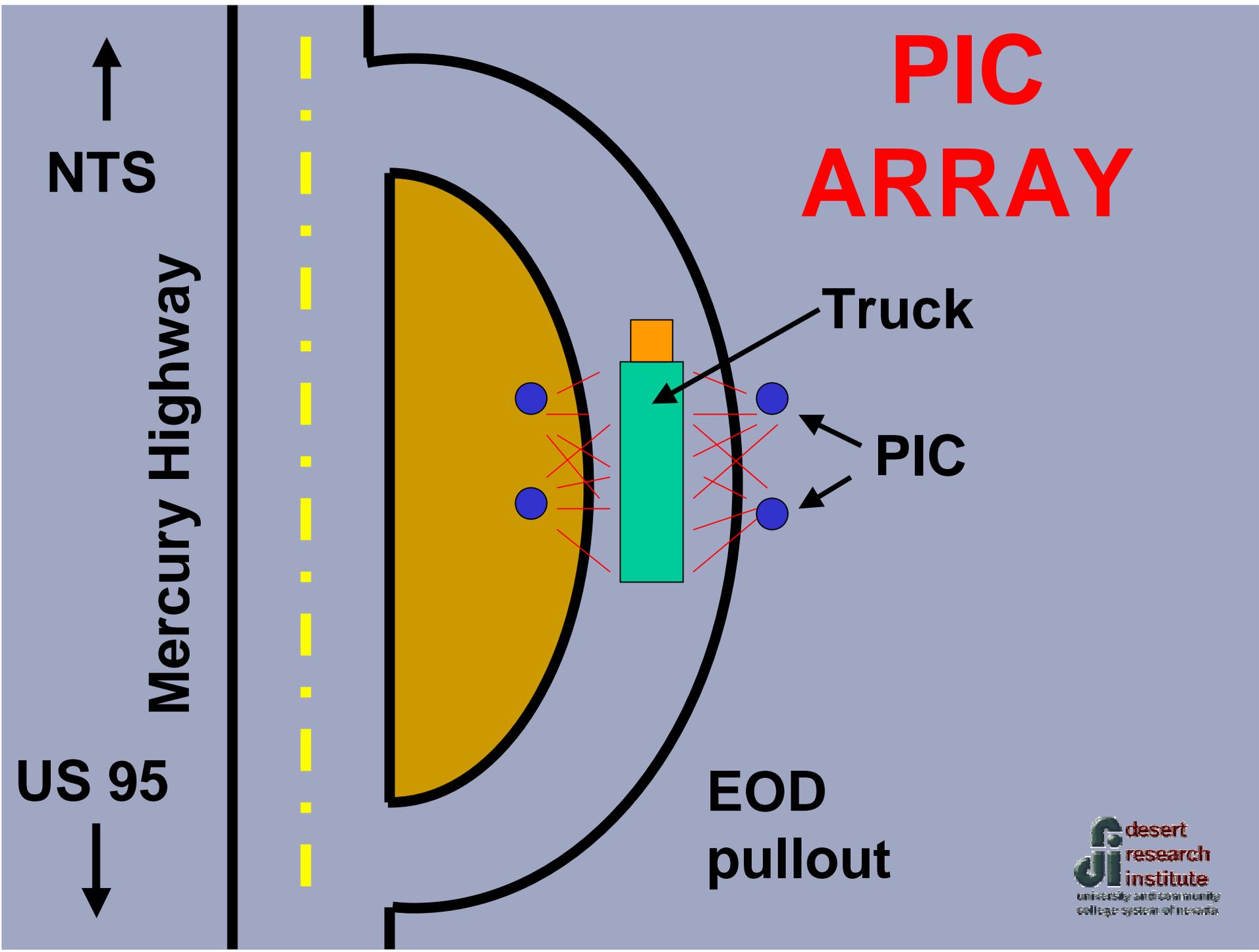
US 95
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**PIC
ARRAY**

Truck

PIC

EOD
pullout



DRI Revised Study

Revised

Stationary monitoring PIC array system enhances study by allowing more data points (all trucks) to be measured, thus allowing all haul routes to be analyzed.

- All LLW generators/transporters asked to participate.

Original

Study limited to two generators and two haul routes.

DRI Revised Study

Revised

PIC array automated with data loggers & solar panel power supply for continuous measurements.

Data downloaded into database, which can be queried.

Original

Laboratory analyses of TLDs was expensive, limited number of trucks in study, and required complicated QA.

DRI Revised Study

Revised

- **Log-in sheet at PIC array**
 - Driver's and shipment identification
 - Approximate time
 - Truck type (*i.e.*, trailer, flatbed)

- **Manifest information used**

Original

- **Complicated chain-of-custody from generator to transporter to disposal site**

Schedule: FY02

- **FY02: Testing Data Collection Technique**
 - 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**
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- **Stacey Sedano**
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- **David Shafer**
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 - dshafer @ dri.edu
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GREENFIELD LOGISTICS, LLC

Update on Progress For Rail to Truck
Transload Options Via Southwest
Utah To NTS

February 7, 2002



RAIL TRANSLOAD FACILITY NEAR MILFORD, UTAH

- 2,500 feet of usable track space
- 2,500 x 200 foot transload pad
- Transload only containerized waste shipments
- Restricted to only low-level radioactive waste containers (no high level waste to be transloaded)
- 90,000# capable lifting capacity
- 483 miles to NTS via UT-257, UT-21, NV-487, US-6-50, US-6, US-95
- Financial and training support for local emergency agencies



WHY RAIL TO TRUCK TRANSLOAD?

- There are currently no direct rail routes to NTS
- Per mile-ton of product shipped, 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



WHY MILFORD, UTAH?

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



Progress Report

- The approach to creating a Regional Transload Facility capable of performing transload operations in support of NTS operations is multi-faceted
- Includes local permitting, working with DOE, pricing, and development of a workable business plan



Local Permitting

- Selected site is zoned Multiple Use-20 acre minimum (MU-20)
- County Zoning Ordinance did not allow for Rail Transloading operations in an MU-20 Zone
- Greenfield requested a zoning ordinance change
- Zoning ordinance change approved by the County Planning Committee and forwarded to the County Commission recommending approval



Local Permitting (continued)

- Public Hearing conducted Wednesday, January 30, 2002
- Generally favorable response from the public
- County Commission Meeting on Monday, February 4, 2002 – unanimous approval for the zoning ordinance change
- Greenfield immediately submitted the application for a Conditional Use Permit for operations at the selected site



Local Permitting (continued)

- Conditional Use Permit approval expected in mid March, 2002
- Needed facility improvements (access road improvements, site services, etc.) expected to be completed by the end of March, 2002 or sooner with full service to DOE immediately available



DOE STUDY

- Goal: Increase the use of intermodal and/or rail for DOE complex waste shipments
- Study participants obtained key information on the Milford Transload Facility Draft Operations Plan
- DOE is in the process of developing the study highlighting the cost benefits of rail transload options for the entire DOE complex



Pricing and Contracting

- Greenfield is currently having discussions with DOE Sites about establishing contract vehicles to utilize the Milford, Utah Transload Facility
- Pricing has shown rail transport to be a much more cost effective method than straight truck transportation when transporting higher density materials longer distances
- As much as 40% cost savings can be realized per shipment



Workable Business Plan

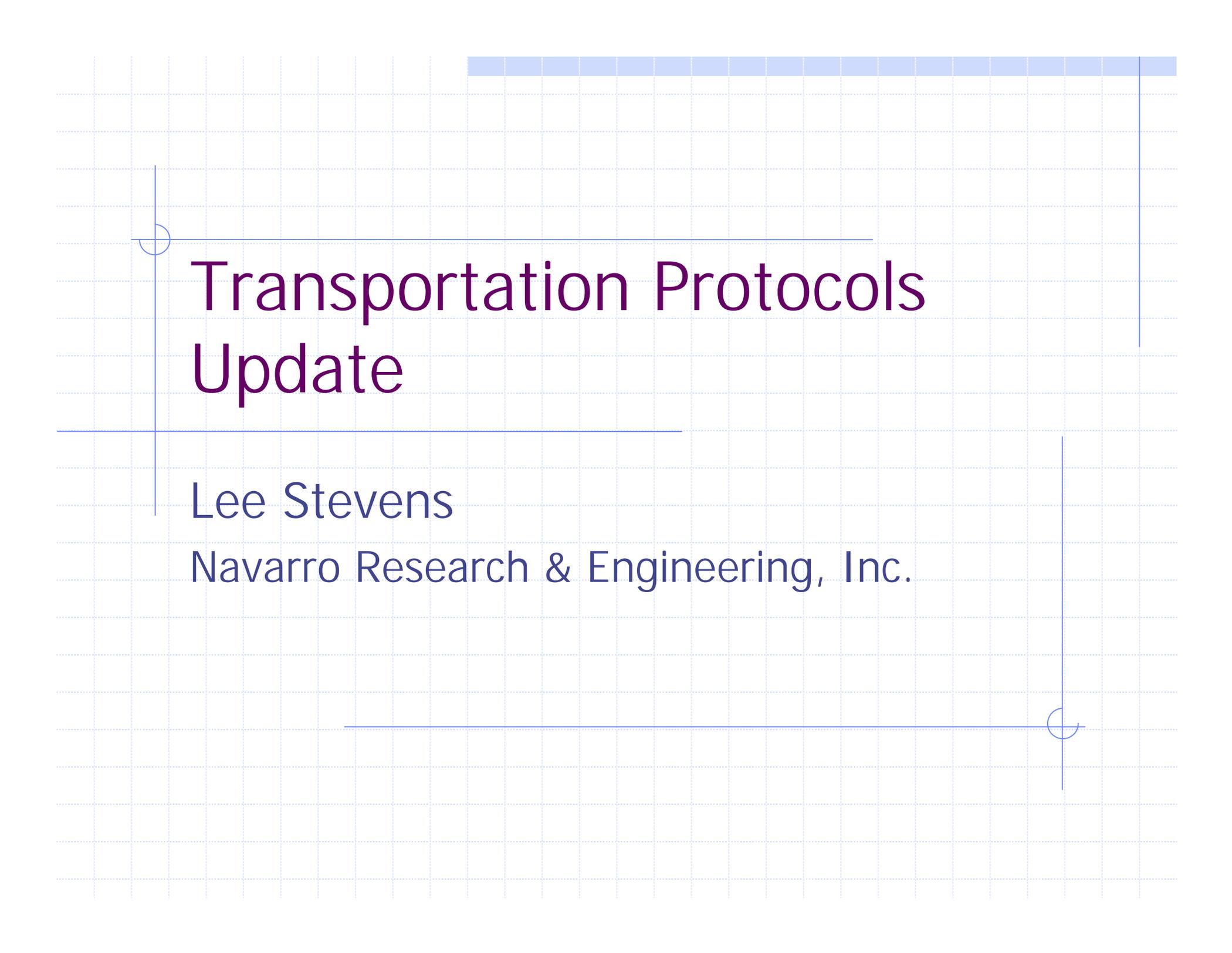
- Must reduce the risk of shipping waste materials to NTS
- Must cover the capital investment cost to develop the facility with reasonable time to recover those costs
- Must provide an overall cost incentive to DOE and DOE contractors over current methods of shipping
- Must not degrade the quality of life of the local community



CONCLUSION

- Greenfield's Transload Facility near Milford, Utah meets Stakeholder's concerns
- Rail transportation adds to the overall safety of shipment of waste materials to the NTS
- Local community support has been expressed
- Greenfield is proceeding with the due process with the local county government
- Rail shipment of waste materials to NTS via a rail/truck transload is more cost effective than straight truck shipments





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

Protocols Update

March, 2002...

