



Department of Energy  
Carlsbad Area Office  
P. O. Box 3090  
Carlsbad, New Mexico 88221

SEP 22 1994

Steve Z  
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SEP 30 1994

Dear Colleague:

The Carlsbad Area Office (CAO) and Westinghouse Waste Isolation Division (WID) are proud to host the first Interface Working Group (IWG) under the National Transuranic (TRU) Program Office (NTPO) on October 4-6, 1994, in Carlsbad, New Mexico. This meeting marks the beginning of an effort by the NTPO to provide much stronger coordination and interface among the numerous DOE and contractor organizations involved in achieving the mission of the CAO.

Specifically, this meeting is intended to bring together for the first time all of the major organizations involved in TRU waste characterization. This will allow participants to gain an understanding of the needs and responsibilities of other organizations, which support and interface with the National TRU Waste Characterization Program, under the NTPO.

Secondly, the NTPO and Idaho National Engineering Laboratory (INEL) will be officially kicking off the Performance Demonstration Program (PDP) for Non-destructive Assay, a major accomplishment of the IWG. This program is being developed to qualify the generator sites to requirements set forth in the TRU Waste Characterization Quality Assurance Program Plan (QAPP).

The purpose of having this meeting in Carlsbad is to provide participants the opportunity to become more familiar with the overall mission of the TRU waste characterization program. In order to achieve this, presentations will be made by Sandia National Laboratory, WID and INEL. These presentations will focus on waste characterization requirements for the compliance program and certification of waste for shipment and disposal at the Waste Isolation Pilot Plant (WIPP). To that end, a TRUPACT-II truck will be displayed and a group tour of the WIPP facility will be given.

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Colleague

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SEP 22 1994

If you have questions or comments on this meeting, please contact Jeff Williams of my staff at 505-234-7475, or Bill Weston of WID at 505-234-7517.

Sincerely,

A handwritten signature in cursive script that reads "Mark L. Matthews".

Mark L. Matthews, P.E.  
Manager  
National TRU Program Office

Enclosures

# ATTACHMENT #1

## HOTEL/MEETING INFORMATION FOR CARLSBAD NM

All meetings of the NDA/NDE IWG will be held in the Quality Inn located at 3706 National Parks Hwy. (NOTE - This represents a change from the E-mail message recently sent to some of the IWG membership via Mark Pickrell)

For reservations at the Quality Inn, please call (505) 887-2861 and reference the "NDA/NDE IWG Meeting." A block of room has been set aside for this meeting at the rate of \$42.00 per day (including tax) which is the government rate. A free breakfast is included with the price of the room. The cutoff date for making these reservations is September 20, 1994.

There are numerous other hotels in Carlsbad that also provide a variety of accommodations. An abbreviated listing of these other hotels includes -

Holiday Inn	601 S. Canal St	505-885-8500
(For the Holiday Inn, please reference the "IWG Meeting" to get their government rate of \$44.00 per day)		
Best Western Motel	1829 S. Canal St	505-887-2851
Rodeway Inn	3804 National Parks Hwy	505-887-5535
Travellodge South	3817 National Parks Hwy	505-887-8888
Continental Inn	3820 National Parks Hwy	505-887-0341

## REASONS TO EXTEND YOUR STAY IN CARLSBAD NM

- Carlsbad Caverns National Park (Eighth Wonder of the World)
- Living Desert State Park and Gardens
- Carlsbad Museum and Art Center
- Guadalupe Mountains
- Pecos River Village and Riverwalk
- Hiking, Rock Climbing, Swimming, Boating, Fishing, Golf
- Relaxation
- Retirement Living for You and Your Loved Ones
- Etc, Etc, Etc

**NON-DESTRUCTIVE ASSAY/NON-DESTRUCTIVE EXAMINATION  
INTERFACE WORKING GROUP  
MEETING**

Carlsbad, NM  
October 4-6, 1994

**AGENDA**

**Tuesday Morning, October 4, 1994**

**REGISTRATION**

(8:00 - 8:30)

**INTRODUCTORY REMARKS**

8:30 - 8:40	"Welcome" Bill Weston, Westinghouse (WID)
8:40 - 8:55	"Carlsbad Area Office - Mission and Vision" George Dials, DOE (CAO)
8:55 - 9:10	"National TRU Program Office Issues" Mark Matthews, DOE (NTPO)
9:10 - 9:25	"TRU Waste Characterization Program" Jeff Williams, DOE (EM-351)
9:25 - 9:40	"Waste Characterization Technology Development" Al Tardiff, DOE (EM-542)

**SESSION 1 - WASTE CHARACTERIZATION ISSUES/DRIVERS**  
(Chairperson - Fred Schultz/ORNL)

9:40 - 10:00	"Data Needs of the WIPP Performance Assessment" Paul Davis, SNL
10:00 - 10:20	"Methodology of the WIPP TRU Waste Baseline Inventory Report" Paul Drez, Drez Environmental Associates
10:20 - 10:40	"Identification of the Regulatory Drivers for NDA/NDE Waste Characterization" Mark Duff, SAIC

**BREAK**

(10:40 - 11:00)

**SESSION 1 - WASTE CHARACTERIZATION ISSUES/DRIVERS (Continued)**

**(Chairperson - Richard Hane/SRS)**

- 11:00 - 11:20 "Regulatory Compliance"  
Bob Kehrman, Westinghouse, WID
- 11:20 - 11:40 "Status of the WIPP WAC - Dead or Alive!"  
Mark Duff, SAIC
- 11:40 - 12:00 "Performance Based WAC - What Does it Mean?"  
Mark Duff, SAIC
- 12:00 - 12:20 "What is Adequate Process Knowledge?"  
John Elliott, Westinghouse, SRS

**LUNCH**

(12:20 - 1:40)

**Tuesday Afternoon, October 4, 1994**

**SESSION 1 - WASTE CHARACTERIZATION ISSUES/DRIVERS (Continued)**  
**(Chairperson - Joe Wachter/LANL)**

- 1:40 - 2:00 "Waste Characterization Issues Identified  
From Site Visits - An EPA Perspective"  
Jim Benetti, ORIA/EPA
- 2:00 - 2:20 "Waste Characterization Issues Identified  
From The Generator/Storage/Disposal Site  
Perspective - The Other Side of the Coin"  
Bill Weston, Westinghouse, WID
- 2:20 - 2:40 "NDA/NDE - Why Are We Doing This? A Waste  
Transportation Perspective"  
Phil Gregory, Westinghouse, WID

**TRUPACT-II AND TECHNOLOGY DEVELOPMENT DISPLAY BREAK**

(2:40 - 3:20)

**SESSION 2 - DATA QUALITY ASSURANCE**  
**(Chairperson - Jim Benetti/EPA)**

- 3:20 - 3:40 "Waste Characterization Quality Assurance  
Program Plan - The Big Picture"  
Mike Connolly, EG&G, ID
- 3:40 - 4:00 "Radioassay Methods Data Quality Objectives -  
A Moving Target?"  
Charles Marcinkiewicz, CONTECH
- 4:00 - 4:20 "The ABCs of Preparing Hanford's Waste  
Characterization QAPjP"  
Dick Lipinski, Hanford
- 4:20 - 4:40 "Progress Report on the Preparation of the

SRS's Waste Characterization QAPjP"  
John Elliott, SRS

4:40 - 5:00 "Preparation of ORNL's Waste Characterization  
QAPjP"  
Paul Arakawa, ORNL

**EVENING SOCIAL**

**Living Desert State Park and Gardens**

Skyline Drive  
(6:00 - 8:00)

Tuesday's evening social will be held at the Living Desert State Park and Gardens located on a nearby knoll overlooking the city of Carlsbad. The facility will be opened to the NDA/NDE IWG participants and their guests only. Refreshments will be served and there will be a no-host bar. Opportunity to experience the Chihuahuan desert is at your beckoning call by browsing through the botanical garden and viewing the many interesting and informative historic, mineral, and natural science exhibits.

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**Wednesday Morning, October 5, 1994**

**BREAKFAST REFRESHMENTS**

(8:00 - 8:30)

**INTRODUCTORY REMARKS**

8:30 - 8:35 Meeting Announcements  
Bill Weston, Westinghouse. WID

8:35 - 8:50 "Small Quantity Sites Waste Characterization  
Requirements"  
Joe Lippis, DOE/NTPO

8:50 - 9:10 "The Dawning of a New Day - Identification of  
the Path Forward for the NDA/NDE IWG"  
Fred Schultz, ORNL

**SESSION 3 - TRAINING/PEER REVIEW**  
**(Chairperson - Nancy Jo Nicholas/LANL)**

9:10 - 9:30 LANL's Development of a Waste  
Characterization Methods Training Course  
Norbert Ensslin, LANL

9:30 - 9:50 "Evaluation of a Boxed Waste Assay System -  
Elements of a Peer Review Process"  
Joe Wachter, LANL

**SESSION 4 - TECHNOLOGY TRANSFER/MOBILE SYSTEM DEVELOPMENT**

**(Chairperson - Dan Menkhaus/INEL)**

- 9:50 - 10:10 "Transfer of Mobile NDA/NDE Systems to LANL and SRS"  
Steve Betts, LANL
- 10:10 - 10:30 "Los Alamos Safeguards Commercialization Efforts Program"  
Mark Pickrell, LANL
- 10:30 - 10:50 "Waste Inspection Tomography - Work in Progress to Develop and Demonstrate a Mobile NDA/NDE System"  
Dick Bernardi, BIR Inc.

**BREAK**

(10:50 - 11:20)

**SESSION 5 - NDE DEVELOPMENTS**

**(Chairperson - Boyd Howard/SRS)**

- 11:20 - 11:40 "High Throughput Radioscopic Examination of 55-Gal Waste Drums"  
Tim Roney, EG&G Idaho Inc.
- 11:40 - 12:00 "3D Tomographic and Radiographic Visualization of Mock Waste Drum Contents"  
John Steude, SMS

**LUNCH**

(12:00 - 1:00)

**Wednesday Afternoon, October 5, 1994**

**SESSION 5 - NDE DEVELOPMENTS (Continued)**

**(Chairperson - Harry Martz/LLNL)**

- 1:00 - 1:20 "Lens Coupled Digital Radiography of Drums"  
Boyd Howard and Richard Poland, SRS
- 1:20 - 1:40 "Distributed Radiographic Databases"  
David Forslund, LANL
- 1:40 - 2:00 "NDE Characterization of Processed Waste - A View Within Vitrified Logs"  
Russell Schonberg, Schonberg Research Corp

**SESSION 6 - NDA DEVELOPMENTS**

**(Chairperson - Ken Coop/LANL)**

- 2:00 - 2:20 "In-Situ, Real Time, Elemental Characterization of 55-Gal Waste Drums Using Prompt Gamma Neutron Activation Analysis"  
David Weigle, SEG
- 2:20 - 2:40 "Linear Accelerator Based Assay Measurements of RH Waste"  
Jeff Chapman, ORNL
- 2:40 - 3:00 "Waste Characterization of RFP Residues"  
Nancy Jo Nicholas, RFP
- 3:00 - 3:20 "Cooperative Research And Development Agreements"  
Dorothy Davidson, Canberra
- 3:20 - 3:40 "The PFNA Story"  
Tsahi Gozani, SAIC

**BREAK**

(3:40 - 4:00)

**SESSION 7 - STATUS REPORTS**

**(Chairperson - Greg Becker/INEL)**

- 4:00 - 4:15 "Radiological and Hazardous Material Measurement System - A Status Report"  
Tim Roney, EG&G Idaho Inc.
- 4:15 - 4:30 "Active and Passive Gamma-Ray Computer Tomography Applied to Quantitative Waste Assay - A Status Report"  
Harry Martz, LLNL
- 4:30 - 4:45 "Combined Thermal Epithermal Neutron Interrogation - A Status Report"  
Ken Coop, LANL
- 4:45 - 5:00 "Hanford's WRAP Facility Module 1 Drum/Box Waste Inspection System - A Status Report"  
Vijay Alreja, V.J. Technologies Inc

**EVENING SOCIAL**

**Dinner and Melodrama Theater**

White City  
(6:00 - 10:00)

Wednesday's evening social will be held at White's City, NM, and will include a melodrama at Granny's Opera House where the crowd interacts (plenty of popcorn to throw) with both the actors and each other. Everyone is invited to this no-host affair. NDA/NDE

IWG participants and their guests will then savor a rotisserie broiled chicken buffet dinner. If the participants wish, they may also enjoy a serene walk in the scenic Chihuahuan desert.  
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Thursday Morning, October 6, 1994

Breakfast Refreshments

(7:00 - 7:30)

SESSION 7 - STATUS REPORTS (Continued)  
(Chairperson - Jeff Chapman/ORNL)

- 7:30 - 7:45 "Tomographic Gamma Scanner - A Status Report"  
Robert Estep, LANL
- 7:45 - 8:00 "Results of NDA/NDE Instrumentation Survey -  
A Status Report"  
Bill Weston, Westinghouse, WID

SESSION 8 - MEASUREMENT FUNDAMENTALS  
(Chairperson - Tim Roney/INEL)

- 8:00 - 8:20 "Calculations for Waste Characterization"  
Ralph Hemmer, RFP
- 8:20 - 8:40 "The Various Flavors of Fissile Gram Equivalent  
as a Waste Characterization Parameter"  
Jeff Chapman, ORNL
- 8:40 - 9:00 "The ASTM Good Practices Guide"  
Richard Hane, SRS

SESSION 9 - PERFORMANCE DEMONSTRATION PROGRAM  
(Chairperson - Mark Pickrell/LANL)

- 9:00 - 9:20 "PDP Status, Budget, and Schedule - An  
Optimistic Outlook"  
Jeff Williams, DOE/EM-351
- 9:20 - 9:40 "PDP Implementation Plan"  
Mike Connolly, EG&G, ID

BREAK

(9:40 - 10:00)

- 10:00 - 10:20 "Design and Fabrication of Matrix Standards"  
Greg Becker, EG&G, ID
- 10:20 - 10:40 "Design and Fabrication of Source Standards"  
Greg Becker, EG&G, ID
- 10:40 - 11:30 PDP Discussion

**SESSION 10 - CLOSING REMARKS AND SUMMARY**  
**(Chairperson - Bill Weston/WIPP)**  
(11:30 - 12:00)

**HOSTED LUNCH AND WIPP SITE TOUR**

12:00	Depart for the WIPP Site
12:45	Arrive at the WIPP Site
12:45 - 1:45	Check-in/Safety Briefing/Orientation/Lunch
1:45 - 4:00	Underground and Surface Tours
4:30	Depart for Carlsbad
5:30	Arrive back in Carlsbad
6:30	Last Mesa flight of the day to depart Carlsbad for Albuquerque