

# Transuranic Waste Facility Permit Modification Request

## Public Information Meeting

**LANL Hazardous Waste Facility Permit  
Fuller Lodge, Los Alamos  
Wednesday, August 10, 2011**

**LA-UR-11-04597**



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# Meeting Procedures

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**Presenter: Bruce McAllister, Meeting Facilitator**

# Topics and Guidelines

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- The meeting focus is on permit compliance activities.
- The purpose of this meeting is to share information and status.
- The meeting is not designed to include debate about LANL's programmatic mission.
- We will be collecting questions and comments on Permit Question Cards
- We will answer as many questions as time allows.
- Any unanswered questions and suggestions will be provided to the program managers for future reference.
- If you have suggestions to improve the meeting, please use the Meeting Comment Cards

# Agenda

Time	Subject	Speaker
5:30 – 5:45	Posters Meet and Greet	
5:45 – 5:55	Meeting purpose	Bruce MacAllister
5:55 – 6:15	Purpose of the Transuranic Waste Facility (TWF)	Matthew Nuckols Program Director
6:15 – 6:35	Description of the TWF	Greg Juerling Project Manager
6:35 – 6:55	Permit Modification Request	Gian Bacigalupa RCRA Permitting
6:55 – 7:30	Question and Answer	Bruce MacAllister

# General Meeting Procedures

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- **Please write your questions on the cards so we can collect them.**
- **Please identify yourself before speaking.**
- **Please keep your questions short and remember that others may be waiting to ask questions.**
- **Please honor the process by keeping questions and comments civil and by using appropriate language.**
- **Please yield the floor if requested by the facilitator**
- **Please help the participants and facilitator keep to the agenda and timeframes**

## **New Mexico Environment Department (NMED) Approves Permits under the Resource Conservation and Recovery Act (RCRA)**

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- **Los Alamos National Laboratory (LANL) will request approval of a permit modification to the current Hazardous Waste Facility Permit for the proposed Transuranic Waste Facility (TWF).**
- **The permit modification request will be reviewed by the NMED for approval of construction and incorporation into the Permit.**
- **The permit modification request follows regulatory procedures, including this meeting.**
- **Seeking public comment is an important aspect of the regulatory process for review and approval of the new unit.**
- **Your written questions and comments will be provided to NMED when LANL submits the permit modification request .**

## End of Meeting Section

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- Does anyone have questions or comments related to meeting procedures?

# Transuranic Waste Facility Project

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**Presenter: Matthew Nuckols, Program Director Capital Projects**



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# Basis for Permit Modification

- Container storage unit to replace existing waste management units when Material Disposal Area G at TA-54 is closed in compliance with the 2005 NMED Compliance Order on Consent.
- Waste management capability is required to continue to process newly generated (future) TRU waste from LANL to the Waste Isolation Pilot Plant near Carlsbad, NM.



# TA-54 AREA G – Current Transuranic Waste Storage

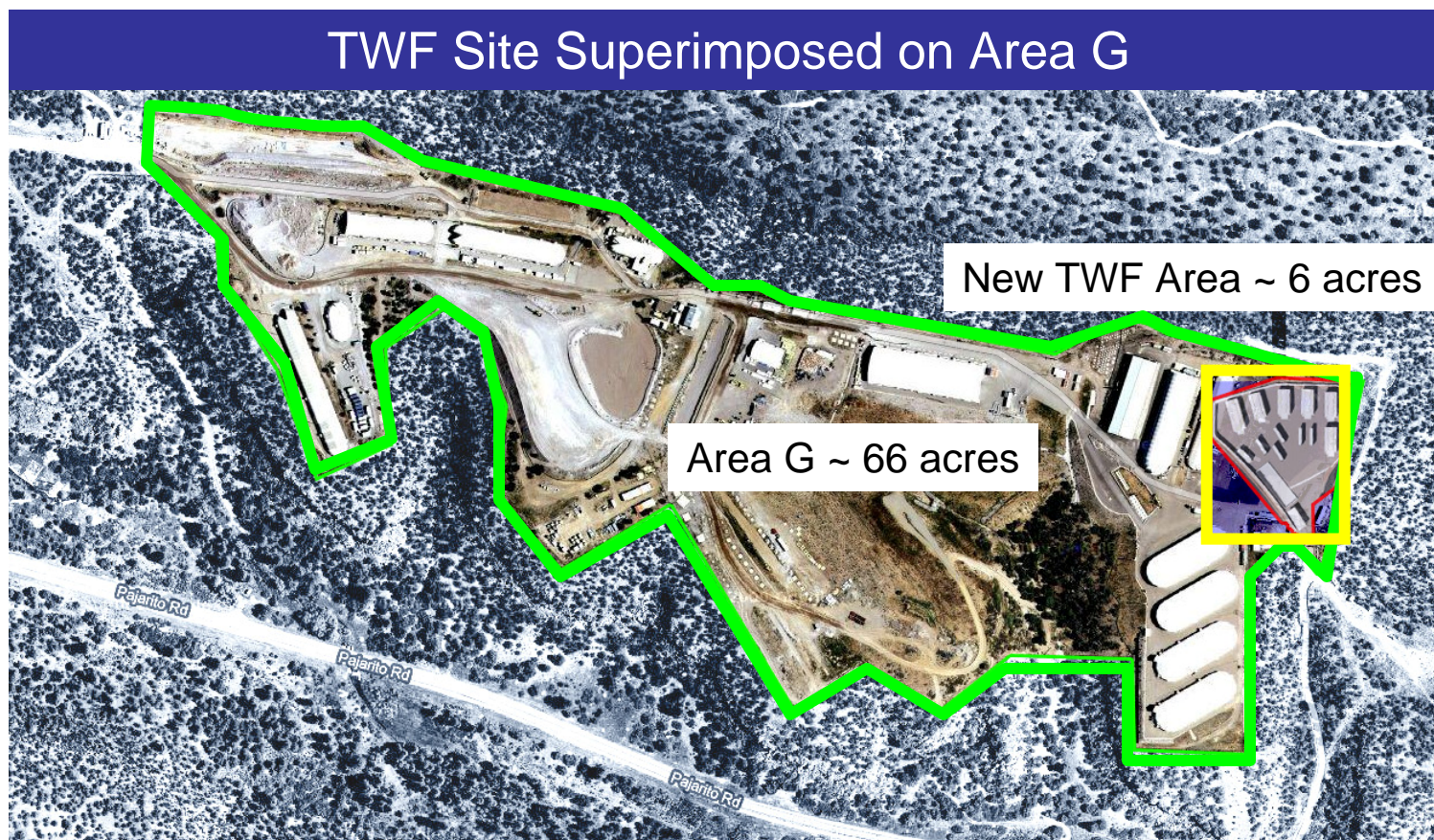


# Transuranic Waste in TA-54 Dome

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# Area G Comparison



# TWF Provides Container Storage and Analytical Capability to Support Disposal at WIPP



**Plutonium Facility (TA-55)**



**Chemistry and Metallurgy Research (TA-3)**



**Radioactive Liquid Waste Treatment Facility (TA-50)**

**Off-site Source Recovery Project**



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**Storage & Waste Certification at New TWF**

**Generator Intra-site Transport of WIPP compliant containers to New TWF**



*Scope removed from previous TWF Project*

- *Decontamination*
- *Repackaging*
- *Size Reduction*
- *Loading to WIPP*

**Intra-site Transport to RANT**

**Loading at Radio Assay Non-destructive Testing (RANT) Facility**



**Ship To WIPP**



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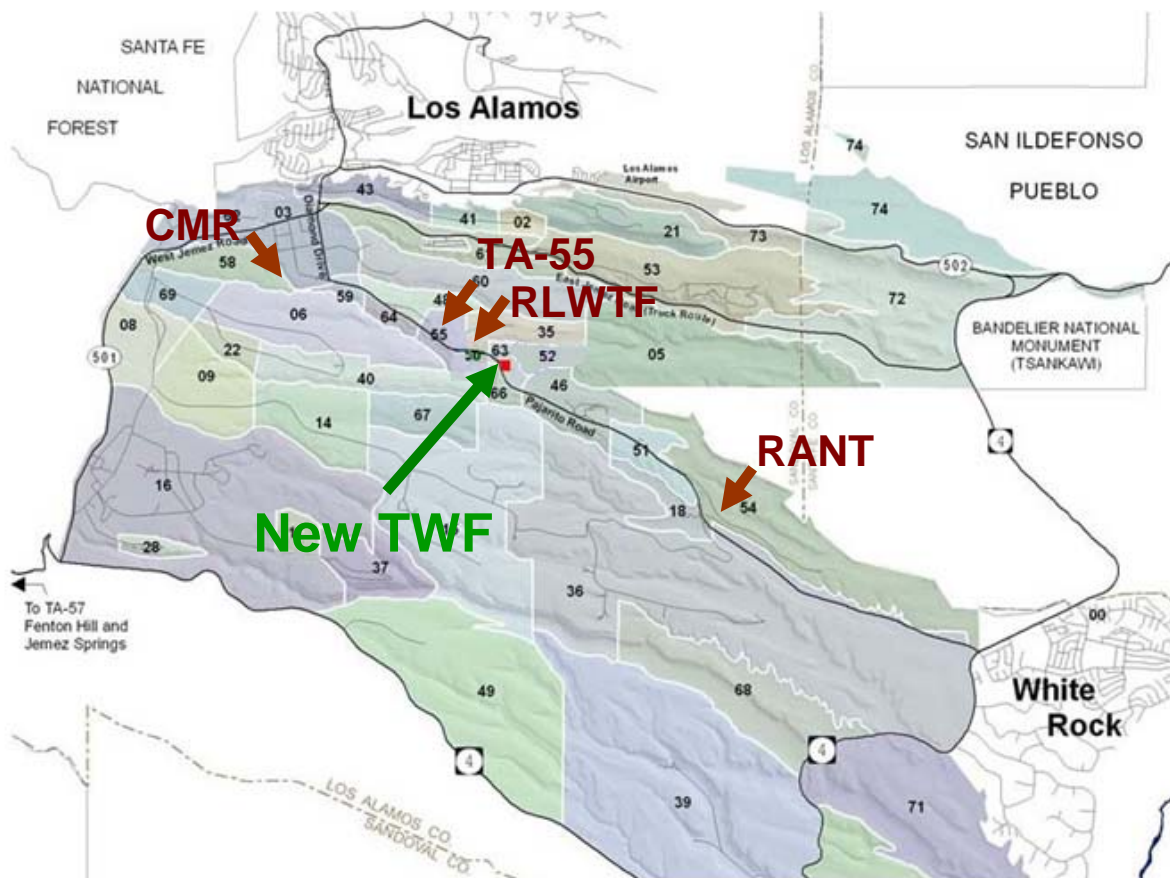
# TWF Functions



- **Storage of Waste Containers in Protective, Enclosed Buildings**
- **Characterization and Certification of Containers in Trailers**



# Location of New Facility at TA-63



## New Facility Schedule and Benefits

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- TWF design for permit modification is complete.
- Construction planned to start in 2013 and finish in 2014. Facility will be ready to accept waste in early 2016.
- Ends newly generated transuranic waste shipment to Area G
- Much smaller storage capacity (2.5% of Area G capacity)
- Shorter transport distances from waste generating activities to storage area
- Interior site location, away from the Laboratory boundaries
- Enhanced protection for waste container storage.



## End of TWF Project Section

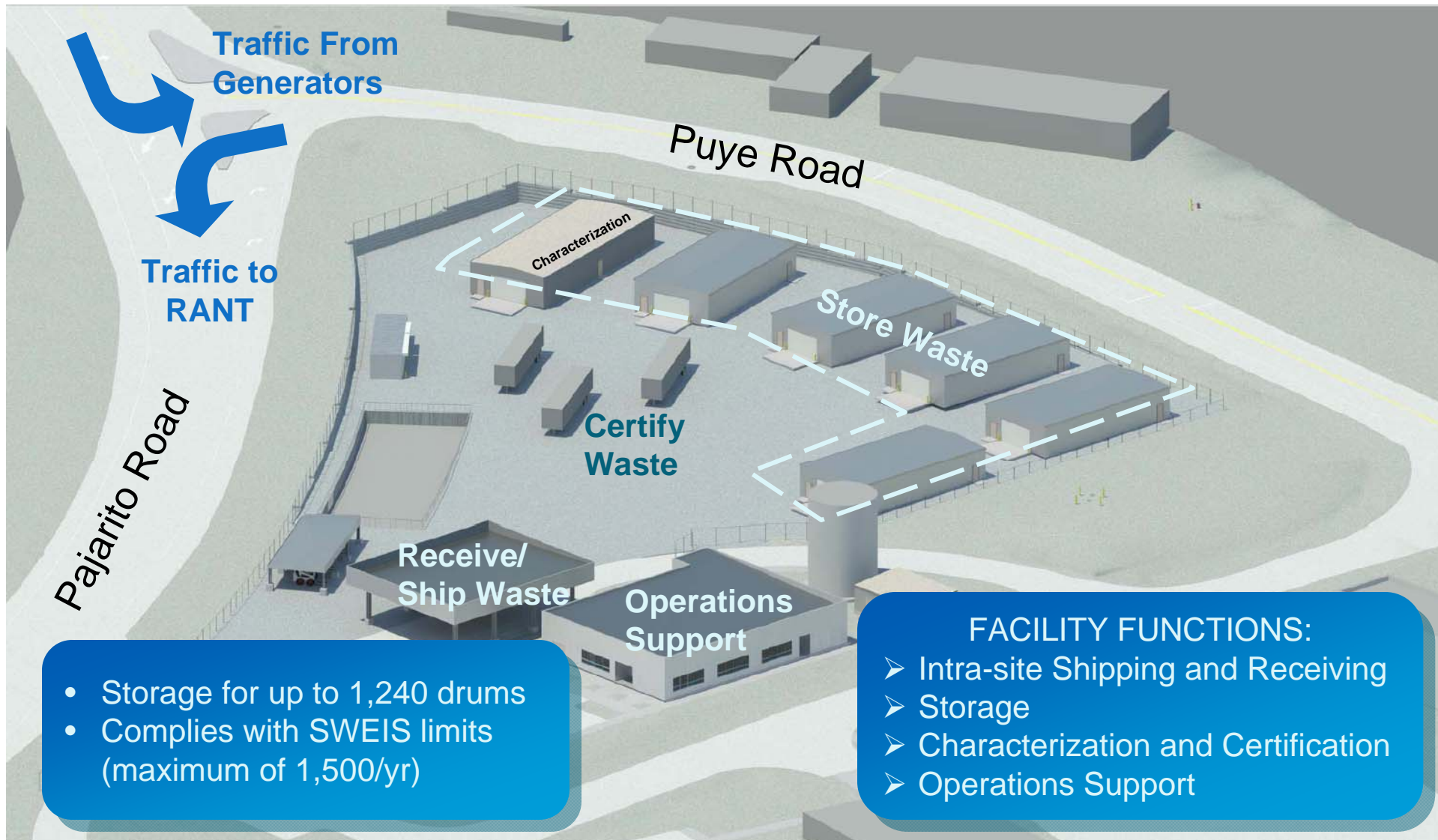
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- Does anyone have questions or comments related to TWF Program purpose or functions?

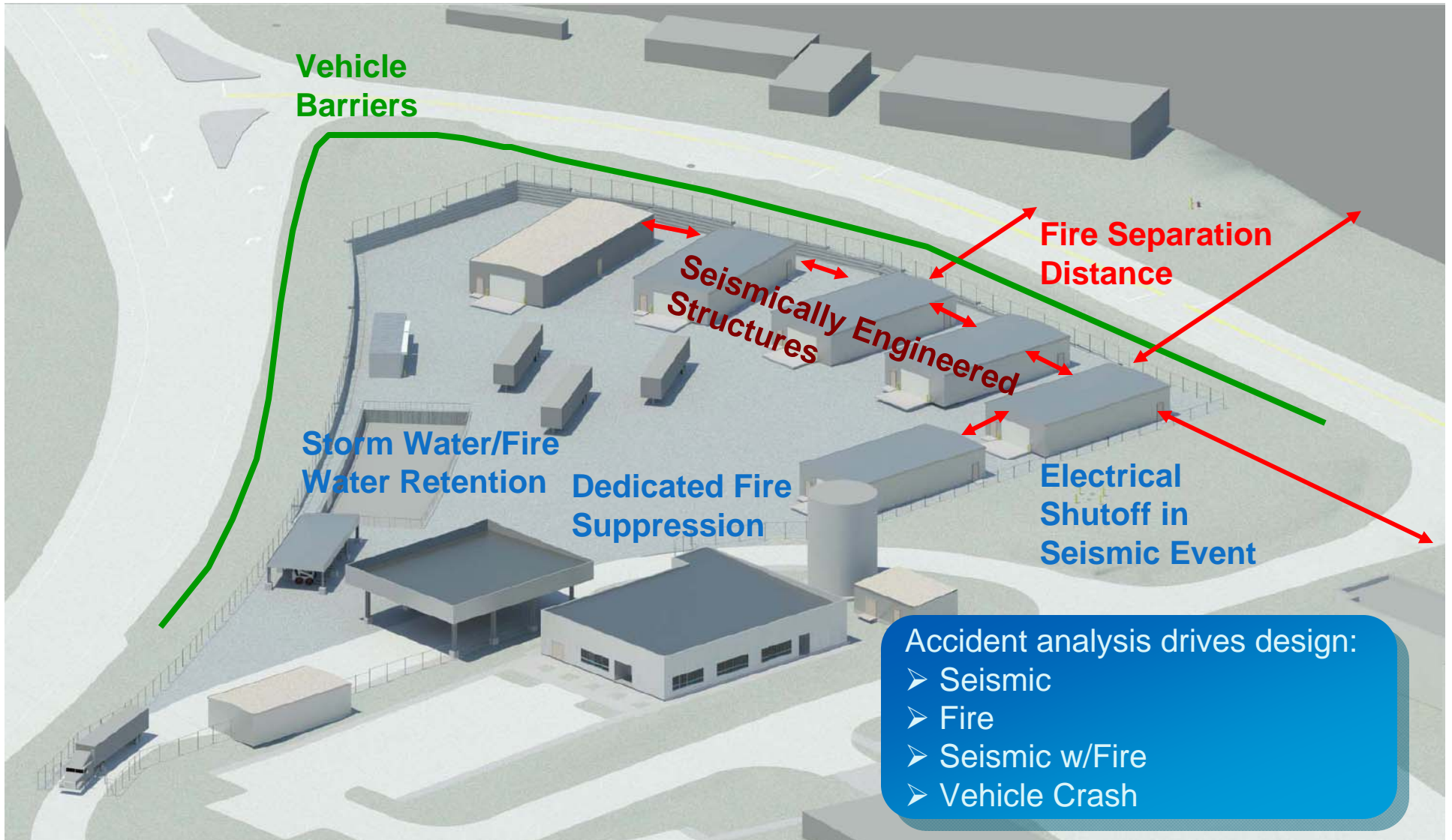
# Transuranic Waste Facility Design

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**Presenter: Greg Juerling, TWF Project Manager**



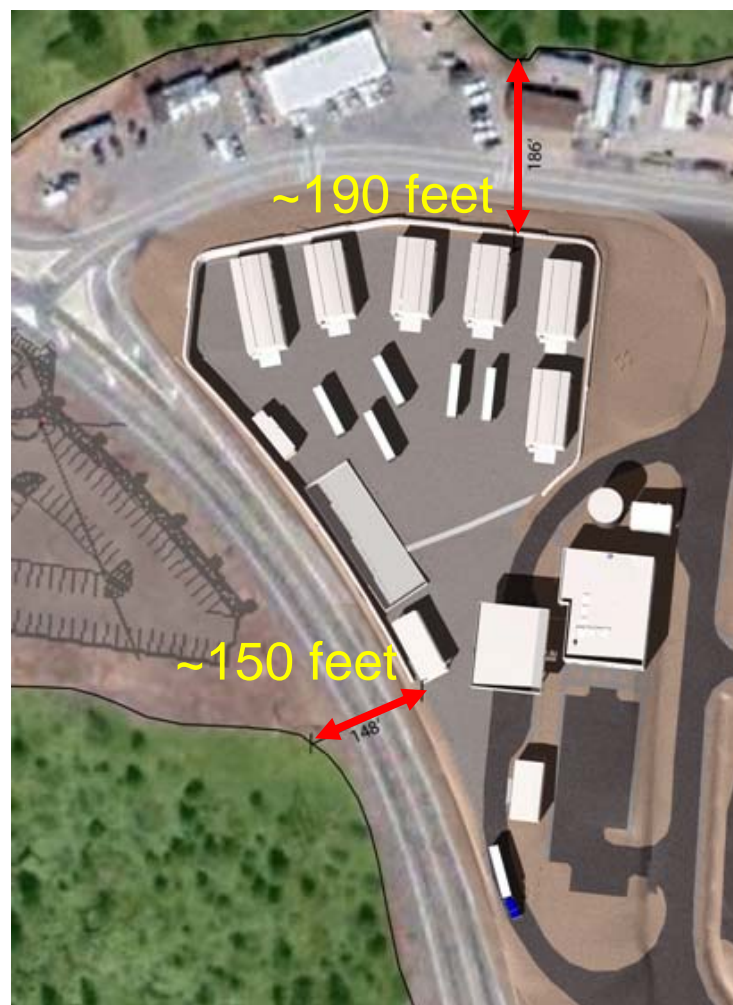
## TWF Waste Management Activities



## TWF Waste Protective Features

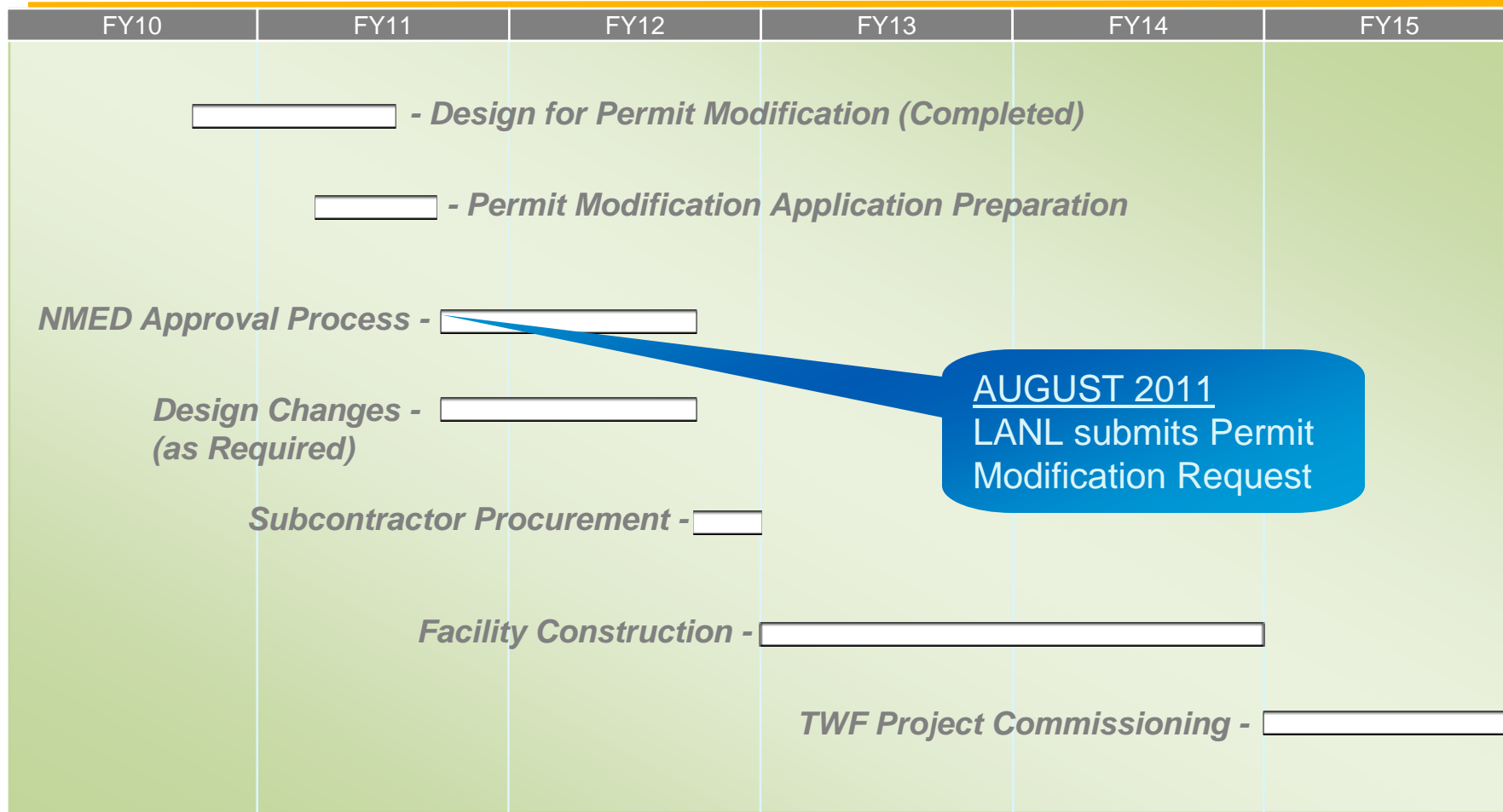
# Wild land fire protection

Defensible space perimeter of 75 feet is recommended for wild land fire control



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# TWF Project Schedule



# End of Project Design Section

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- Does anyone have questions or comments related to TWF design, layout, or safety features?

# Permit Modification Request

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**Presenter: Gian Bacigalupa, RCRA Permitting**



# Permit Modification Request Content

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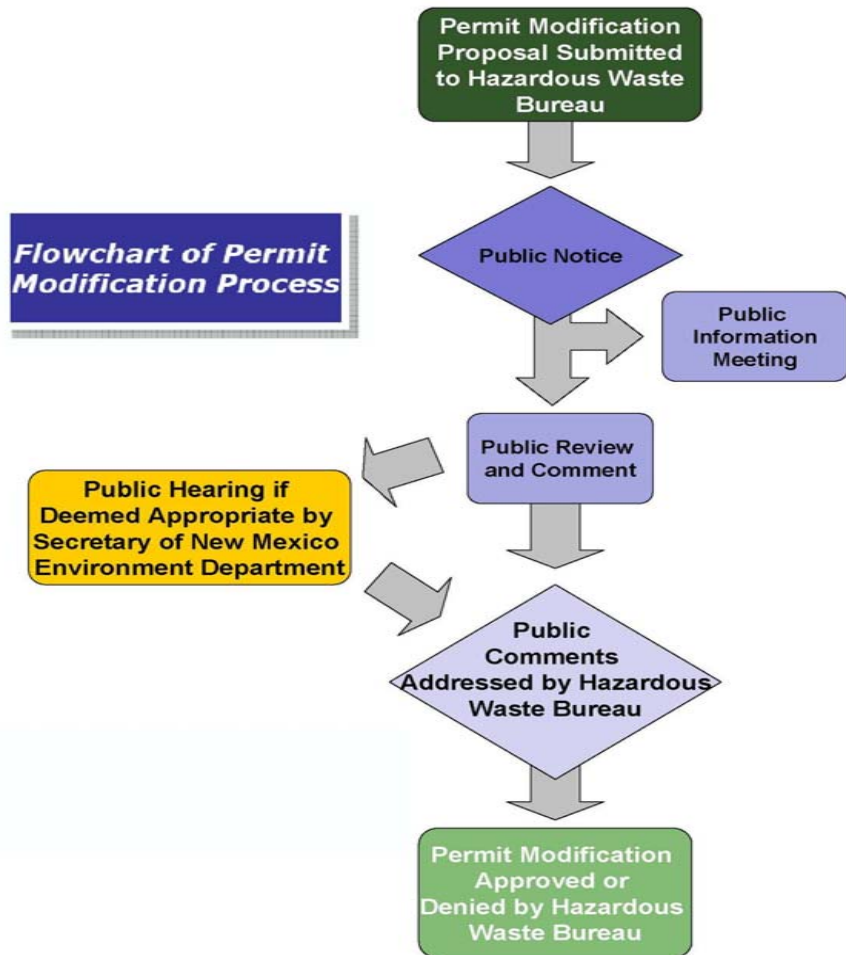
- Permit Modification Request
  - Descriptions and construction figures for unit structures
  - Waste management practices
  - Emergency equipment and procedures
  - Draws on current LANL Hazardous Waste Facility Permit conditions
  - Attachments (e.g., specifications, closure plan, revisions to permit pages)
  - Seismic Analysis: During 1992-1993, trenches were excavated across TA-63 and immediately adjacent areas. No evidence of Holocene faulting was observed.

## Permit Modification Request Content (cont'd)

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- Revision of current LANL Part A Permit Application incorporating the proposed new unit.
  - 1 RCRA permitted hazardous waste management unit
  - Storage at TWF – Maximum 105,875 gallons in DOT Type A Metal Containers
  - Storage capacity at new TWF is less than 2.5% of current permitted storage at Area G
- Copies of pre-submittal public information meeting written comments

# Process for Public Comments



- Submit comments during this public information meeting to be included with permit modification request submittal to NMED
- Review permit modification request and submit comments to NMED before the end of the public review and comment period (August 25 to October 24, 2011).
- Submit comments at public comment meeting during public review and comment period.
- NMED reviews and responds to public comments regarding the permit modification request.
- NMED issues final decision.

# Permit Modification Schedule

AUGUST 2011						
SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

SEPTEMBER 2011						
SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

OCTOBER 2011						
SUN	MON	TUE	WED	THU	FRI	SAT
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

- **August 10, 2011.** Pre-submittal public information meeting for proposed new Transuranic Waste Facility Permit Modification. Please submit any comments by August 12, 2011.
- **August 18, 2011.** LANL anticipates submittal of permit modification request to NMED – Hazardous Waste Bureau.
- **August 25, 2011.** 60-day public comment period for the permit modification will begin with the publishing of legal notices and mailing notice to the facility mailing list.
- **September 9 – October 9, 2011.** Range of dates for public comment meeting during comment period.
- **October 24, 2011.** Public comment period ends.

## Contacts for Public Comment Submittal

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- Written comments may be given to the meeting facilitators tonight or sent to Lorrie Bonds-Lopez, [envoutreach@lanl.gov](mailto:envoutreach@lanl.gov), or at Environmental Outreach and Public Involvement, Los Alamos National Laboratory, P.O. Box 1663, MS M996, Los Alamos, NM 87545 by August 12, 2011.
- Copies of the proposed permit modification will be available for public review after the August 18, 2011 submittal at:
  - Hazardous Waste Bureau, New Mexico Environment Department, 2905 Rodeo Park Drive East, Building 1, Santa Fe, New Mexico 87505-6303 (also on website @ <http://www.nmenv.state.nm.us/hwb/lanlperm.html>)
  - J. Robert Oppenheimer Study Center and Research Library, 4200 West Jemez Road at Casa Grande, Los Alamos, NM 87545
  - LANL electronic public reading room: <http://epr.lanl.gov/>,
- To comment after the submittal:
  - John E. Kieling, Permits Management Program Leader, NMED-HWB at (505) 428-2500 or [john.kieling@state.nm.us](mailto:john.kieling@state.nm.us)

# End of TWF Permit Modification Request Section

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- **Does anyone have questions or comments related to permit modification request contents, procedures, or schedule?**

# Final Questions and Comments

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**Presenter: Bruce McAllister, Facilitator**