

# Nevada National Security Site (NNS) Disposal Operations Update



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National Security Technologies, LLC (NSTec)  
Spring 2012 Waste Generator Workshop  
April 24, 2012



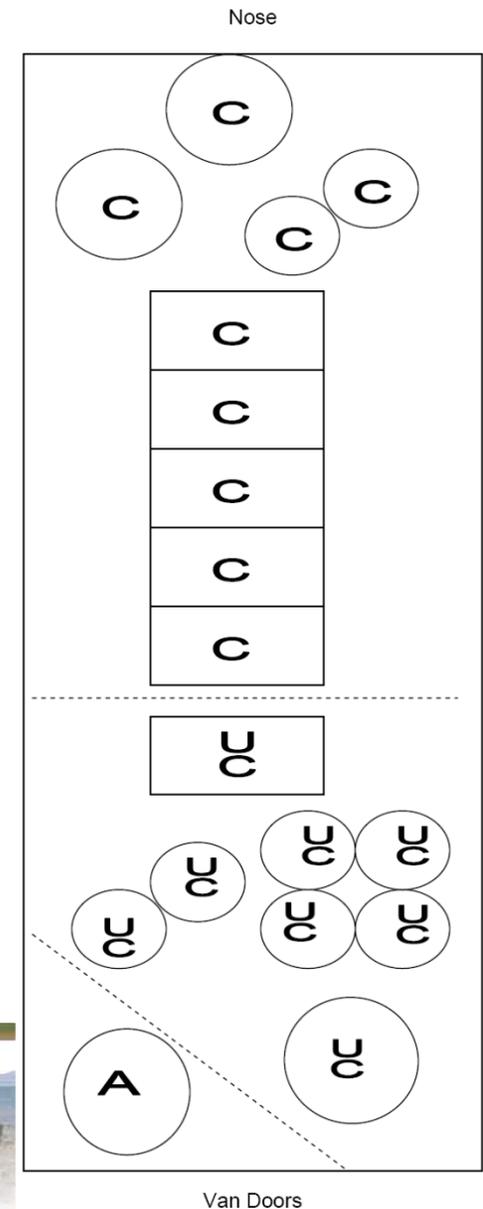
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# Operational Updates

- Send corrected WMDATA files flagged as “Corrected” or “Revised”
- Include unique information with WMDATA e-mail (dose rates above 100 mr/hr on count, special handling, multiple shipments/waste types, etc.)
- Note multiple waste stream shipments on the same truck and e-mail load layout



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# Operational Updates

(continued)

- RWMC capabilities
  - Low-level waste (LLW)
    - Asbestos
    - Polychlorinated biphenyl (PCB)
  - Mixed low-level waste (MLLW)
  - Classified MLLW
  - Classified asbestos (has to meet MLLW Criteria)
  - Classified non rad/haz that meets land disposal restrictions
  - Classified non-rad/non-haz(Pending)



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# Important Reminders

- Ensure trailers meet **DOE** free-release limits before and after loading at generator site
- Ensure **shipment numbers** are included on **all** paperwork (Manifests, 741s, 542s, UHWMs, etc.)
- **Provide advance notice** for shipments requiring crane work
- Provide Elevated Dose/Remote Handling Waste Information Form (ALARA planning sheet) **for shipments >1Rem @ 30cm**



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# Important Reminders

## (continued)

- Provide Nuclear Material Transaction Report (Form 741)
  - Shipment number
  - Only **one** signed copy needed via fax, e-mail, or shipment driver
  - Disposal Operations signs same day and returns with shipment driver or it is mailed to generator

DOE/NRC FORM 741		U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 2550-0003		EXPIRES: 04/30/2008	
<small>4-2007. Previous editions are obsolete. REGULATORY DATA COLLECTION AUTHORIZED BY 10 CFR 83.41, 86, 70, 72, 74, 76, 78, 100. Printed under 50-103, 50-408, 95-91</small>		<small>Estimated burden per response to comply with this mandatory collection required: 1 hour and 10 minutes. This information is required for O&amp;A accounting reports that show changes in inventory of nuclear materials. Send comments regarding burden estimate to the Records and FOIA Privacy Services Branch (15-153), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to nrc@nrc.gov and to the Case Officer, Office of Information and Regulatory Affairs, NRC-1822, 1155-0003, Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.</small>		<b>NUCLEAR MATERIAL TRANSACTION REPORT</b>			
1. SHIPPER'S NAME		2. RECIPIENT'S NAME		3. TRANSACTION NO.		4. RECEIVING OFFICE	
VAB		National Security Technologies (NSTec) Nevada Test Site P.O. Box 94521 Las Vegas, NV 89193-8521 Area 5 RWMS (702) 295-6807					
5. SHIPMENT DATE		6. SHIPMENT TYPE		7. SHIPMENT TO ACCOUNT OF		8. SHIPMENT TO ACCOUNT OF	
9. SHIPMENT AUTHORITY - CONTRACT, AGREEMENT, OR ORDER NUMBER		10. SHIPMENT TO ACCOUNT OF		11. SHIPMENT TO ACCOUNT OF		12. SHIPMENT TO ACCOUNT OF	
13. MATERIAL TYPE AND DESCRIPTION		14. CONTROLLED MATERIALS		15. MATERIAL TYPE		16. MATERIAL TO BE RECEIVED	
17. SHIPMENT NUMBER		18. SHIPMENT DATE		19. SHIPMENT TO ACCOUNT OF		20. SHIPMENT TO ACCOUNT OF	
Shipment Number Here							
21. SHIPPER'S DATA		22. SHIPPER'S DATA		23. SHIPPER'S DATA		24. SHIPPER'S DATA	
25. SHIPPER'S DATA		26. SHIPPER'S DATA		27. RECEIVER'S DATA		28. RECEIVER'S DATA	
<b>WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.</b>							



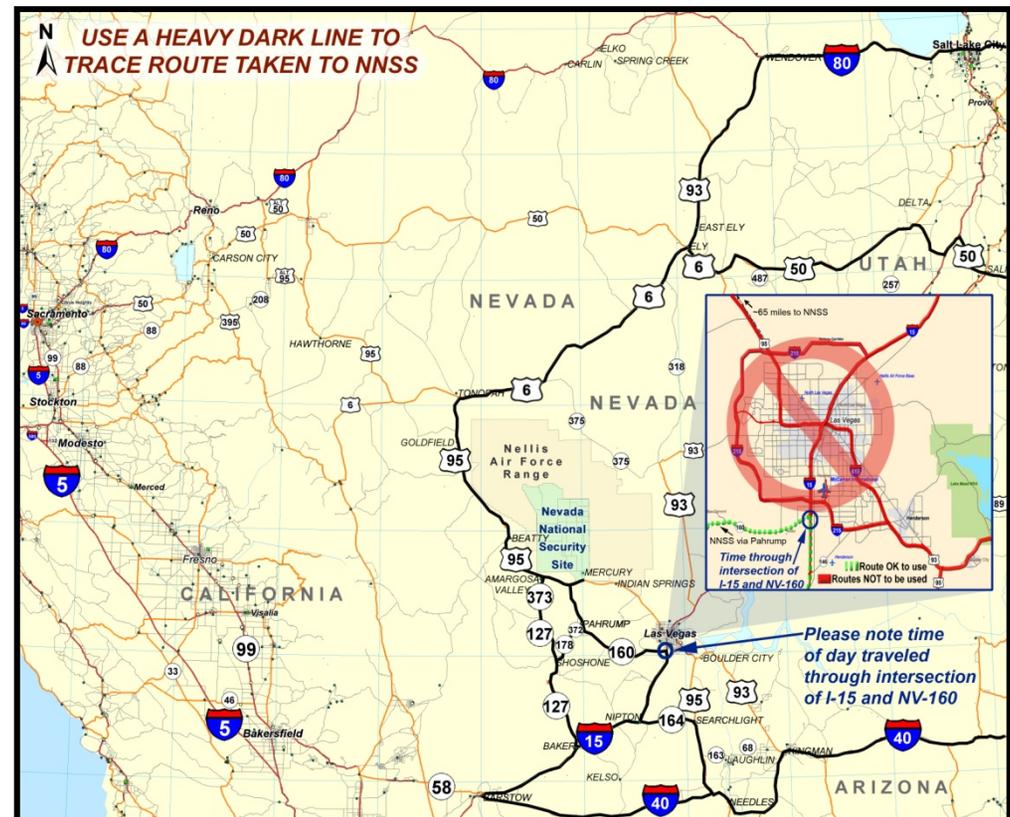
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# Shipment Routing

- Avoid heavily populated/ congested areas in the state of Nevada (including the Las Vegas Beltway, I-215 and US 95/I15 interchange)
- Refer to *Transporting Radioactive Waste to the NNSS* fact sheet (revised February 2012) available\*  
\*[www.nv.energy.gov/library/factsheets/DOENV\\_990.pdf](http://www.nv.energy.gov/library/factsheets/DOENV_990.pdf)
- Know the updated, drivers questionnaire



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# We're Here for YOU

- Challenging waste types
  - High-dose shipments  
(Radiological Work Permit approved for up to 10,000 rem)
  - Portsmouth Crit Impacted Uranium Boxes
- High-profile/time sensitive/difficult handling
  - Savannah River Site uranium shipments
  - Portsmouth uranium
  - Oak Ridge K-25 converters



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# Radiological Concerns

- Provide internal contamination survey results for Type-B or similar containers that require opening and content disposal
- Provide maximum contamination levels expected for shipments that require dumping (i.e. intermodal that needs to be returned) in the event the containment bag is breached during off-loading
- Dunnage/cribbing will no longer be returned except on a limited case-by-case basis



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# Radiological Concerns

(continued)

- Provide survey results needed for generator-provided tools or equipment required to off-load
- Communicate high-dose/ANY contamination level shipments in advance to ensure Disposal Operations has the RWP to for offloading
- Existing RWP's cover up to 5 Rem @ 30 cm, but only 20 dpm alpha/1,000 dpm beta



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## RADIOLOGICAL DATA FOR ALARA PLANNING PURPOSES Rev. 1

**GENERATOR:**   
**WASTE PROFILE #:**   
**SHIPMENT #:**   
**PRIMARY NUCLIDES OF CONCERN (of the waste):**   
**DATE SHIPMENT IS EXPECTED TO ARRIVE AT THE NNSS:**

	Contact (R/hr)	1 ft (R/hr)	3 ft (R/hr)	10 ft (R/hr)	25 ft (R/hr)	50 ft (R/hr)	125 ft (R/hr)	100 mR/hr line (feet)	5 mR/hr line (feet)
Outside of Cask (max)									
*Unshielded Liner (max)									
Top of *Unshielded Liner after the cask lid is removed									
	Alpha (removable) (dpm/100cm <sup>2</sup> )	Beta-Gamma (removable) (dpm/100cm <sup>2</sup> )		Tritium (removable) (dpm/100cm <sup>2</sup> )		Primary Nuclides of Concern (not required if levels < App D of 10CFR835)			
*Unshielded Liner									
Inside of Cask/Lid									
Outside of Cask									
Lifting rig or any other support equipment									

Does the cask have fixed contamination that may "leach out" during transport (Yes/No)?

If yes, please list removable contamination levels expected and nuclides of concern on the spreadsheet above in the appropriate blocks.

\*Unshielded Liner: The waste package that will be lifted out of the cask and disposed of in the RWMC disposal cell.

Questions? Contact Bradley Bounds, HP Supervisor, NSTec: 702-295-4506 [boundsbe@nv.doe.gov](mailto:boundsbe@nv.doe.gov)



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# Contacts

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- Pat Arnold – NSTec, Radioactive Waste Program Manager  
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- Syd Gordon – NSTec, Waste Generator Coordinator  
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- Disposal Operations – (702) 295-6811
  - Lou Gregory – NSTec, LLW Disposal Supervisor  
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# Thank You!



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