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Low-Level Waste (LLW) Federal Sub-Project Director Nevada Site Office (NSO) Waste Management 2009 Symposium, Session 53 March 4, 2009



Environmental Management

Success Story

- In the latter half of fiscal year 2008, waste disposal forecast exceeded monthly disposal ceiling of 125,000 ft³ (3,540 m³)
- NSO incentivized the contractor to take waste without requesting additional funding from generators



closure

Success Story

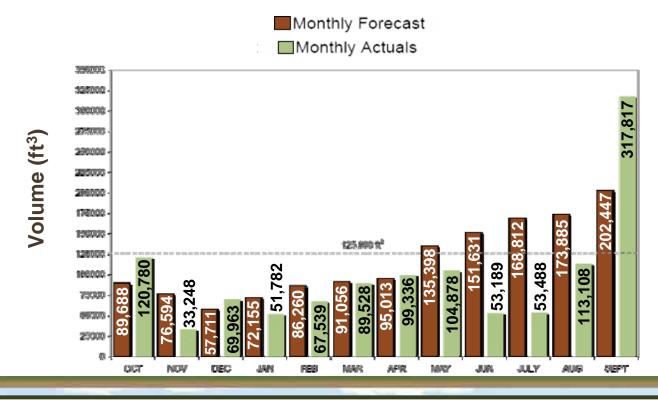
(continued)

- Contractor/generators cooperatively developed solutions to meet generator needs
 - Weekly conference calls
 - Level loading of waste shipments during the week
 - Packing waste in a manner that is easier to off load

Success Story

(continued)

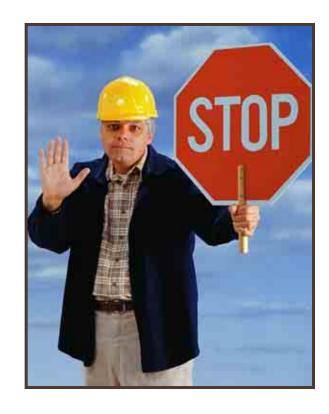
Result: for the last month of fiscal year 2008, contractor disposed LLW volumes as high as 192,000 ft³ (5,437 m³) above the ceiling



*FY 2008 total volume received as of September 30, 2008 = 1,174,656 ft³

Zero Tolerance Policy

- Waste streams must meet NTS Waste Acceptance Criteria
- Waste streams failing to meet criteria will be retrieved by generator at generator's expense
- Disposal operations are not allowed to repair the concern

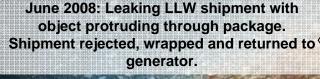


Zero Tolerance Policy: Challenges

Breached containers

- Returned, opened, and repackaged at generator site
- Causes for the breach identified
- Generator changed container loading practices
- Remaining shipping campaign shipped without issue







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Zero Tolerance Policy: Challenges

(continued)

Leaking container

- Package overfilled
- Changes in loading practices implemented by generator
- Results still being collected



Zero Tolerance Policy: Challenges

(continued)

Several containers shipped with contamination on exterior

- Resulted in suspension of generator's NTS Waste Acceptance Criteria certification
- Generator error
- Generator re-audited for recertification
- Generator restarted in 2nd
 Quarter fiscal year 2009



Zero Tolerance Policy: Impacts



- Generators' shipping campaigns unnecessarily delayed
- Schedules missed, costs escalated, milestones missed
- Business decision requiring reevaluation
- Complex-wide delays

Fiscal Year 2009 Forecast

- NTS capable of disposing 2 million ft³ (56,634 m³) with single crew
- Forecasted to receive 1.24 million ft³ (35,200 m³) of LLW
 - 91,647 ft³ (2,595 m³) of MLLW
- 522,359 ft³ (14,792 m³) of LLW/MLLW forecasted for the first quarter
- Required weekly communication with generators to level load the waste
- NTS actual LLW/MLLW volume received was 379,985 ft³ (10,760 m³), 75% of forecast
 - Major MLLW generator suspended (due to non-compliance with NTS Waste Acceptance Criteria)
 - Other generators shipped less than they had forecasted

Fiscal Year 2009 Disposal Funding



- During the Continuing Resolution
- After the Continuing Resolution/Economic Stimulation

Classified Disposal at the NTS

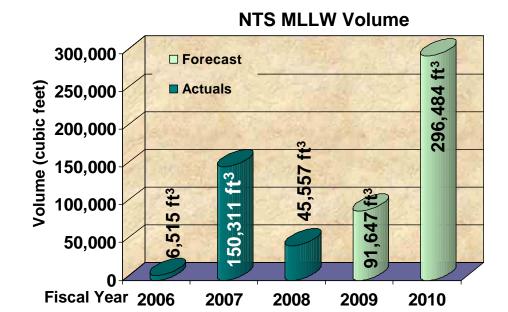
- Nevada Division of Environmental Protection prohibits the storage of material in the Mixed Waste Disposal Unit
- NSO working to become a classified waste disposal facility
- All streams accepted at the NTS must be declared a waste for disposal



MDARS (Mobile Detection and Reconnaissance System) will be deployed at the Area 5 Radioactive Waste Management Site to enhance security

MLLW through FY 2010

 Upon commencement of MLLW disposal in December 2005, it was forecasted that up to 50 percent of the Mixed Waste Disposal Unit capacity would be unused Five year forecasted total is 590,514 ft³ (16,721 m³) – 84% of available capacity



MLLW volume capacity remaining in the NTS Pit 3 Mixed Waste Disposal Unit as of February 1, 2009 is 498,119 ft³ (14,105 m³)

MLLW Beyond December 1, 2010

- MLLW disposal will be needed after December 1, 2010
 - No path forward for MLLW if a new facility is not identified
- DOE is conducting a make/buy analysis for a new MLLW disposal unit at NTS
- Cost estimate completed and is currently undergoing an independent review

NTS Disposal Future

"The Nevada Site Office is dedicated to ensuring that NTS LLW disposal services continue until the needs of the Complex are met."

Stephen A. Mellington

Nevada Site Office Manager

