

DOE LLW Management

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DOE LLW Management Overview

- DOE-generated wastes are managed under DOE Order 435.1, *Radioactive Waste Management*, pursuant to Atomic Energy Act authorities
 - DOE policy reflect preference for use of onsite disposal where feasible, or use of other DOE facilities
 - Commercial facilities can be used by exception, when deemed cost effective and in government's best interest
 - 10 CFR 61.55 Waste Classifications only apply to DOE wastes if shipped to licensed treatment and disposal facilities



EM Policy Overview

- Historically, most (88%) LLW/MLLW disposed of in US was generated by DOE activities
 - FY1990-FY2008, approximately 9.6 million m³ of DOE wastes disposed
 - In same period, 1.3 million m³ of non-DOE LLW/MLLW was disposed in commercial facilities
- Most DOE generated LLW/MLLW results from decommissioning and site cleanup activities
 - FY1990-FY2008, about 70% was disposed on site where generated, with 10% at other DOE sites and 20% at commercial facilities



DOE LLW Management Overview

- DOE updates its lifecycle LLW/MLLW forecasts annually and makes this information publically available in the Waste Information Management System (WIMS)
- Latest update estimates nearly 2.2 million m³ of LLW/MLLW will be generated FY2009-2015
 - Vast majority targeted to be disposed on site
 - DOE plans to continue use of Nevada Test Site and, as appropriate, commercial disposal
 - Some uncertainty exists on future disposal capacity for higher activity MLLW

WIMS can be found at <http://wims.arc.fiu.edu/WIMS>

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DOE LLW Management Overview

- The Low Level Radioactive Waste Policy Act, as Amended (1985), assigns DOE certain responsibilities related to civilian-generated LLW
 - DOE maintains strong working relationship with States and Regional Disposal Compacts
 - DOE maintains database on volumes of civilian-generated LLW disposed
 - DOE remains abreast of issues related to commercial LLW disposal



GTCC LLW Disposal EIS Update

- DOE has statutory responsibility to provide disposal capability for GTCC LLW generated by NRC/Agreement State licensees
- DOE is preparing EIS for disposal of commercial GTCC LLW and DOE "GTCC-like waste"
- EIS scope includes 11,000 m³ of stored and projected waste including activated metals, sealed sources, and other waste (e.g., contaminated debris)
 - 7,300 m³ from the commercial sector
 - 3,700 m³ from DOE activities



GTCC LLW Disposal EIS Update

- Disposal alternatives being evaluated include:
 - Deep geologic disposal at WIPP and proposed Yucca Mountain Repository
 - Enhanced near surface (ENS) disposal at Hanford, INL, LANL, NTS, ORR, SRS, WIPP vicinity, and generic commercial locations
 - Intermediate depth borehole location at the same ENS locations, except SRS and ORR
- Preliminary Draft EIS has been completed and is undergoing internal review.
- Goal is to issue Draft EIS in 2009 and Final EIS in 2010
- Before issuing ROD, DOE must submit a Report to Congress on disposal alternatives and wait Congressional action

For additional information on the GTCC EIS visit <http://www.gtcceis.anl.gov/>



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