

High-Level Waste Data

Presentation at Central Internet Database Stakeholder Forum

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Ken Picha

Office of Planning and Analysis
Office of Environmental Management
U.S. Department of Energy

What is High-Level Waste?

- ! **High-Level Waste** is the highly radioactive waste material resulting from the reprocessing of spent nuclear fuel, including liquid waste produced directly in reprocessing and any solid material derived from such liquid waste that contains fission products in sufficient concentrations; and other highly radioactive material that is determined, consistent with existing law, to require permanent isolation. (DOE Order 435.1)
- ! Waste generated from the Department's mission activities. Other HLW candidate waste streams include:
 - Immobilized Plutonium
 - Products from Electrometallurgically treated sodium-bonded fuel

High-Level Waste: What Level of Data is Desired?

Levels of Data Details Potentially Available at DOE-HQ

1 **Department Level** - *composed of one or more programs*

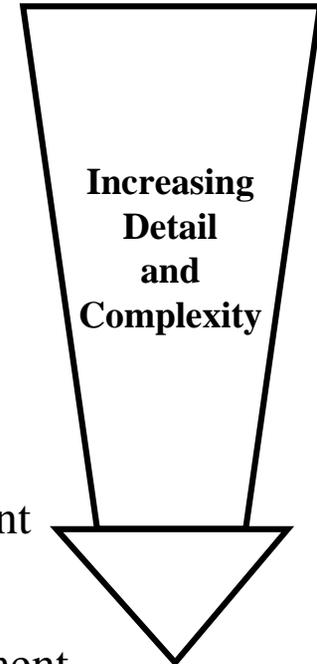
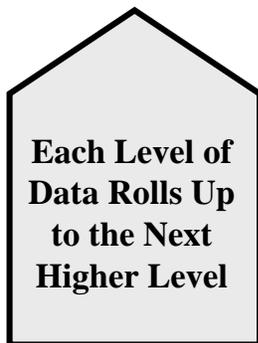
↑ 2 **Program Levels** - (EM, NE) - *composed of one or more operations offices*

↑ 4 **Operations Office Levels** - *four sites (INEEL, Richland, Savannah River, West Valley Demonstration Project)*

↑ 4 **Site Levels** - *for EM, composed of one or more PBSs*

↑ 17 **Project Baseline Summary Levels** (EM requirement only) - *composed of one or more streams*

↑ 38 **Disposition Map Stream Levels** (EM requirement only) - *composed of one or more streams with common disposition paths*



Place holder for disposition map

High-Level Waste: What is the Source of Data?

- ! EM's Corporate Data Base is the Source of All of EM's Data, Which is a Large Majority of These Waste Streams**
 - Data is collected for the EM corporate data base by a tool called Analysis and Visualization System (AVS)
 - Data updates consistent with EM's Integrated Planning, Accountability, and Budgeting System (IPABS) process

- ! Treated HLW Data Planned for Disposal in Geologic Repository Will be Available in Yucca Mountain Environmental Impact Statement to be Issued Summer 1999**

High-Level Waste: Data In AVS That Could Supply The Central Database

! Being Collected in Spring 1999

- Operations office, site, waste type, and disposition map name
- DOE managing program
- Source and destination of stream (e.g., generation to treatment)
- Waste volumes added (e.g., generated), disposition (e.g., treated, disposed), and in inventory by year

! Disposition Maps Consistent With Spring 1999 Data

- Images of summary site disposition maps
- Images of waste type disposition maps

! Planned To Be Collected in Fall 1999

- Key radionuclides and activity (total curies) and/or concentration
- Chemical contaminants