

# Data Sources

## DOE Data Sources

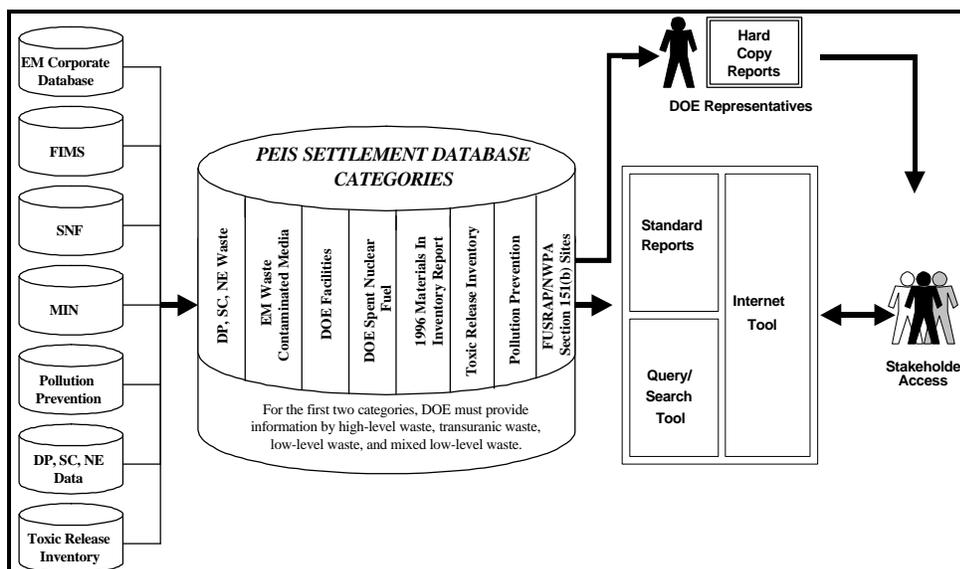
The Central Internet Database will be populated with data that DOE currently collects or plans to collect at a national level. Most of this data resides (or will reside) in existing national-level DOE data systems. DOE has conducted a preliminary review of these systems to identify the data that will satisfy the information requirements set forth in the PEIS Settlement Agreement. These databases were then analyzed in detail to identify specific data elements for inclusion in the Central Internet Database. Each database source was evaluated based on its overall purpose, potential contribution to the Central Internet Database, and organization and structure of the data elements.

Based on this review, it is expected that information from the following databases or sources will be incorporated into the initial version of the Central Internet Database:

- Office of Environmental Management (EM) Corporate Database;
- Facility Information Management; System (FIMS);
- Spent Fuel (SNF) Database;
- Materials in Inventory (MIN) Database;
- Pollution Prevention Database/ Toxic Release Inventory (TRI); and
- Waste data from the DOE Offices of Defense Programs (DP), Science (SC) and Nuclear Energy(NE).

Exhibit 1 shows the proposed database sources that will supply relevant data, based on the requirements of the Settlement Agreement.

### Exhibit 1. Data Sources for Central Internet Database



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Each source database contains data necessary to satisfy specific information requested in the Settlement Agreement. Exhibit 2 summarizes these relative contributions, referenced by the applicable section of the Settlement Agreement.

### Exhibit 2. Contribution of Each Data Source by Settlement Agreement Section

Existing Data Source	Data Categories Required by the Settlement						
	DP, SC, NE Waste <i>Section II.A.2</i>	EM Waste/Contaminated Media <i>Section II.A.1</i>	DOE Facilities <i>Section II.A.1</i>	DOE Spent Nuclear Fuel <i>Section II.A.3</i>	1996 Materials in Inventory Report <i>Section II.D.7</i>	Pollution Prevention/TRI <i>Section II.D.5</i>	FUSRAP/NWPA Section 151(b) Sites <i>Section II.A.5</i>
EM Corporate Database	◐	●	◐	◐	○	○	●
FIMS	○	○	●	○	○	○	○
SNF	○	○	○	●	○	○	○
MIN	○	○	○	◐	●	○	○
Pollution Prevention/TRI	◐	◐	○	○	○	●	○
DP, SC, NE Waste Data	●	○	○	○	○	○	○

● = Major source of data      ◐ = Partial source of data      ○ = Not a source of data

All data will be characterized as follows:

- High-Level Waste (HLW)
- Mixed Low-Level Waste (MLLW)
- Low-Level Waste (LLW)
- Transuranic Waste (TRU)
- Facilities
- Contaminated Media
- Spent Nuclear Fuel (SNF)
- Materials in Inventory (MIN)
- Hazardous/Toxic Waste (HAZ)

Exhibit 3 presents a detailed description of each data source, and the nature and organization of the data provided by each source. A description of each waste type and sample data are presented in Section D of this manual.

Exhibit 3. Data Source Descriptions and Available Data

Data Source	Data Provided	Description of Data Source	Data Organization
EM Corporate Database	Provides data on EM waste (HLW, MLLW/LLW, and TRU) and contaminated media; also spent nuclear fuel and facilities data. Also the source for information on DOE sites managed as part of FUSRAP or NWP Section 151(b).	<p>Several software applications update the EM Corporate Database:</p> <ul style="list-style-type: none"> <li>• Analysis and Visualization System (AVS), an interim tool that collects waste data</li> <li>• Integrated Data Management System (IDMS), an interim tool that collects Paths to Closure and other planning data</li> <li>• Integrated Planning, Accountability, and Budgeting System (IPABS-IS), when complete, will incorporate data collection from both AVS and IDMS, with expanded functionality.</li> </ul> <p>Annual updates expected.</p>	<ul style="list-style-type: none"> <li>• <i>Operations/Field Office.</i> All data are collected through DOE Field/ Operations Office input or specific DOE Headquarters office.</li> <li>• <i>Geographic Site.</i> A geographic site is a physical location where EM program activity occurs.</li> <li>• <i>Waste Stream.</i> The EM Corporate Database defines a waste stream as a "group of materials, media, or wastes that have similar origins, management requirements (same disposition path), or barriers (risks) to disposition."</li> </ul>
Facility Information Management System (FIMS)	Provides facility information, including contamination status, use status, and size.	<p>The DOE Office of Field Integration (FI) manages the FIMS database which stores detailed information on DOE "facilities," (buildings, land and other structures throughout DOE) whether they are owned or leased.</p> <p>Updates occur continuously throughout the year.</p>	<ul style="list-style-type: none"> <li>• <i>Operations/Field Office.</i> Each site in FIMS is assigned an Operations/Field Office as the managing entity.</li> <li>• <i>Site.</i> A site is a physical location where DOE-managed activities occur. Each site is associated with an Operations/Field Office. FIMS "sites" correspond with "geographic sites" in the EM Corporate Database.</li> <li>• <i>Area.</i> An area is a sub-division of a site.</li> <li>• <i>Property ID.</i> A unique control number assigned to a property.</li> </ul>

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Data Source	Data Provided	Description of Data Source	Data Organization
Spent Fuel Database	Provides SNF information.	<p>The National Spent Nuclear Fuel Management Program (NSNFP), managed by Idaho National Engineering and Environmental Laboratory (INEEL), contractor, maintains the Spent Fuel Database which stores information on spent nuclear fuel throughout the DOE complex.</p> <p>Updates occur periodically throughout the year.</p>	<ul style="list-style-type: none"> <li>• <i>Site.</i> A site is a geographic location where SNF is stored. All SNF data are assigned to a specific site.</li> <li>• <i>Area.</i> An area is a sub-division of a site. Area designations are pre-determined, based on the assigned site.</li> <li>• <i>Facility.</i> A facility is a physical structure where the SNF activity is occurring. Facility designations are pre-determined, based on the assigned site and area.</li> <li>• <i>Fuel Element.</i> A fuel unit is a distinct item or group of items that is designated SNF.</li> </ul>
Materials in Inventory (MIN) Database	Provides information on "excess fissile materials and other material inventories" as requested by the Settlement Agreement.	<p>The DOE Office of Environmental Management (EM) developed the MIN database to support the production of the 1996 report, <i>Taking Stock: A Look at the Opportunities and Challenges Posed by Inventories from the Cold War Era.</i></p> <p>There are no plans to update this database.</p>	<ul style="list-style-type: none"> <li>• <i>Site.</i> A site is a geographic location where DOE managed activities occur.</li> <li>• <i>MIN Category.</i> The MIN category is 1 of 10 categories of materials (nuclear and non-nuclear) that DOE used to categorize MIN material for the 1996 report.</li> <li>• <i>MIN Material.</i> A unique material or group of materials that DOE considers to be a single MIN inventory item.</li> </ul>
Pollution Prevention Database	Provides information on non-radioactive hazardous waste.	<p>The DOE Office of Environmental Management (EM) manages this database to support the <i>Annual Report of Waste Generation and Pollution Prevention.</i></p>	<ul style="list-style-type: none"> <li>• <i>Reporting Year:</i> Each year's reported data is stored to allow for comparative and trend analyses.</li> <li>• <i>Reporting Site:</i> A reporting site is a DOE site that qualifies for pollution prevention reporting.</li> <li>• <i>Waste Type:</i> Each record is assigned to a waste type: low level radioactive, low level mixed, transuranic, hazardous, and sanitary.</li> </ul>

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Toxic Release Inventory (TRI) Databases	Provides information about release of waste management activities of toxic chemicals. Tables derived from the database are on the DOE Office of Environment, Safety, and Health (EH) web site.	TRI is a database managed by EH to track DOE's TRI reporting and progress in meeting TRI reduction goals for toxic chemicals for <i>Executive Order 12856</i> .	<ul style="list-style-type: none"> <li>• <i>Reporting Year</i>: Each year's reported data is stored to allow for comparative and trend analyses.</li> <li>• <i>Reporting Site</i>: A reporting site is a DOE site that meets or exceeds TRI reporting thresholds.</li> </ul>
DP, SC, NE Programs	Includes waste data from programs and activities managed by the DOE Offices of DP, NE, and SC.	DP, SC, and NE are still evaluating how waste data will be collected and provided to the Central Internet Database. Options include using EM's AVS module, modifying an existing system, developing a new data collection system, or some combination of the above.	<ul style="list-style-type: none"> <li>• <i>Operations/Field Office</i>. Data will be categorized by DOE Operations or Field Office (e.g., Albuquerque Operations Office).</li> <li>• <i>Geographic Site</i>. Data will be organized by geographic site (e.g., Los Alamos National Laboratory).</li> <li>• <i>Waste Type</i>. Data will be organized by waste type (e.g., high level waste, transuranic waste, low level waste, or mixed low level waste).</li> </ul>

