

Data Integration and Linkages

Introduction

Section II.G.2 of the resulting Settlement Agreement requires that:

"before the first national stakeholder forum, DOE will make a good-faith effort to identify and provide to plaintiffs a list of the major databases that may be included in or linked to the Database in order to improve the usefulness of the Database to the DOE or the public."

Attached is a preliminary data sources and linkages list that consists of three sections, each representing a type of database, report, or table which could be made directly accessible through the Central Internet Database web site. These three sections are:

1. Databases providing data that will be integrated into the Central Internet Database
2. Databases to be linked to the Central Internet Database
3. Reports and tables to be linked to the Central Internet Database

Within these three sections, databases, reports and tables will be identified as either general DOE data sources or site-specific data sources. DOE will continue to update and add to this list as appropriate.

Table 1. Headquarter Databases Providing Data that will be Integrated into the Central Internet Database

Relevant data from each of the databases included in this section will be combined to create the Central Internet Database. In general, these data are updated at least annually by DOE, and once integrated will have direct search, query and reporting capabilities of the Central Internet Database.

Table 2. Databases to be Linked to the Central Internet Database

DOE will make other databases accessible through hyperlinks to the Central Internet Database. It will be necessary to select these links to access data, and these data will not be included in direct searches, queries or reports within the Central Internet Database. These linkages are subject to future additions, changes or discontinuation if DOE later determines they cannot or should not be maintained on the Central Internet Database. These data sources are updated at the discretion of the database owner.

Table 3. Reports and Tabular Tables to be Linked to the Central Internet Database

In addition to database sources, various text reports and tables containing general and site-specific waste information will also be accessible through hyperlinks. It will be necessary to select these links to access information, and this information will not be included in direct searches, queries, or reports within the Central Internet Database. These linkages are subject to future additions, changes or discontinuation if DOE later determines they cannot or should not be maintained on the Central Internet Database web site. These information sources are updated at the discretion of the data owners.

Headquarters Databases Providing Data that will be Integrated into the Central Internet Database

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Headquarters Databases Providing Data that will be Integrated into the Central Internet Database			
	System	Owner	General Description/ Intent
Headquarters General	EM Corporate	The Office of Environmental Management	The EM Corporate Database collects waste, contaminated media, and treatment and disposal facility information for the Office of Environmental Management. In addition, this database contains some waste data from other DOE programs.
Headquarters General	Spent Fuel Database	DOE National Spent Nuclear Fuel Program	The Spent Fuel Database collects information on spent fuel managed by DOE including foreign research reactor fuel.
Headquarters General	Materials in Inventory (MIN)	Office of Strategic Planning and Analysis (EM-24)	The MIN database contains information on sodium, lead, lithium, plutonium other Nuclear Material Management and Safeguards System (NMMSS)-tracked nuclear materials, scrap metal and equipment, weapons components, depleted uranium, natural and enriched uranium, chemicals, and SNF in inventory (not updated).
Headquarters General	Facility Information Management System	Office of Field Integration	The Facility Information Management System (FIMS) stores information about DOE-managed facilities across all programs.
Headquarters General	Pollution Prevention	The Office of Pollution Prevention (EM-77)	Data used to support <i>Executive Order 12856, Federal Compliance With Right-to-Know Laws and Pollution Prevention Requirements Annual Report</i> which provides a comparison of Annual Toxic Chemical Release Inventory (TRI) reporting data by toxic chemical in pounds by site.
Headquarters General	Toxic Release Inventory (TRI)	The Office of Environment, Safety, and Health (EH)	TRI reporting, pursuant to <i>Section 313 of the Emergency Planning and Community Right-to-Know Act</i> , and DOE's <i>Right-to-Know Report</i> provide information about toxic releases and waste management activities, including transfers of chemicals.

Other Databases to be Linked to the Central Internet Database

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Other Databases to be Linked to the Central Internet Database

	System	Owner	URL	General Description/ Intent	Report/Query Capabilities
General	DOE Environmental Compliance Database	Oak Ridge National Laboratory	http://homer.hsr.ornl.gov/oepa/data/violations.cfm	OEPA maintained database of environmental compliance violations at the various DOE offices and facilities.	Capable of searching specific State offices and Statutes.
General	Superfund Hazardous Waste Site Basic Query Form	Environmental Protection Agency	http://www.epa.gov/superfund/sites/query/basic.htm	Provides Site Listing Narrative, Site Fact Sheet, Site Cleanup Decision (ROD) and an Area Map, where available.	Capable of designing basic Superfund Hazardous Waste Site Information query.
General	Superfund Hazardous Waste Site Advanced Query Form	Environmental Protection Agency	http://www.epa.gov/superfund/sites/query/advquery.htm	In addition to providing the basic search elements, queries may also include the following sections: Site Identifiers, Geographic Information, Site Assessment and Cleanup action, Contaminant of Concern, Contaminated Media, and Site Information Products.	Capable of designing advanced Superfund Hazardous Waste Site Information query.
Site-Specific	The TWRS Technology Database	Richland Operations Office	http://www.hanford.gov/twrs/tech/tech.htm	Contains publically released documents from across the DOE complex and foreign governments.	
General	CERCLIS	Environmental Protection Agency	http://www.epa.gov/superfund/sites/topics/wasteinf.htm#cerod1	CERCLIS contains information on hazardous waste sites, site inspections, preliminary assessments, and remediation of hazardous waste sites.	Sites may be located by State, City, and County.

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General	DOE Environmental Compliance Database	Oak Ridge National Laboratory	http://homer.hsr.ornl.gov/oeпа/data/violations.cfm	OEPA maintained database of environmental compliance violations at the various DOE offices and facilities.	Capable of searching specific State offices and Statutes.
General	Superfund Hazardous Waste Site Basic Query Form	Environmental Protection Agency	http://www.epa.gov/superfund/sites/query/basic.htm	Provides Site Listing Narrative, Site Fact Sheet, Site Cleanup Decision (ROD) and an Area Map, where available.	Capable of designing basic Superfund Hazardous Waste Site Information query.
General	Superfund Hazardous Waste Site Advanced Query Form	Environmental Protection Agency	http://www.epa.gov/superfund/sites/query/advquery.htm	In addition to providing the basic search elements, queries may also include the following sections: Site Identifiers, Geographic Information, Site Assessment and Cleanup action, Contaminant of Concern, Contaminated Media, and Site Information Products.	Capable of designing advanced Superfund Hazardous Waste Site Information query.
General	Right- to- Know Network- Environmental Databases	Right- to- Know Network	http://ombwatch.org/rtknet/rtkdata.html	Provides links to the following environmental databases: TRI, BRS, CERCLIS, DOCKET, ERNS, RCRIS, TSCATS, ARIP, FINDS, and PCS.	Capable of Searching databases individually or simultaneously.

Reports and Tables to be Linked to the Central Internet Database

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Reports and Tables to be Linked to the Central Internet Database							
	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
General	The Current and Planned Low-Level Waste Disposal Capacity Report	DOE Low-Level/Mixed Low-Level Waste Center of Excellence	http://www.em.doe.gov/dnfsbrpt/	Provides life cycle volumetric projections of DOE low-level and mixed low-level waste and compares projections to estimates of the current and planned volumetric disposal capacity at DOE disposal facilities.	✓	✓	Tables can be selected independently from Table of Contents.
General	Integrated Data Base Report	The Office of Waste Management	http://www.em.doe.gov/em30/idbrpts.html	Provides data on current and projected inventories and characteristics of permanently discharged domestic SNF and radioactive wastes.	✓	✓	Tables can be selected independently from Table of Contents.

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
General	Office of Waste Management End State Plan, Initial Draft, February 1996	DOE Low-Level/Mixed Low- Level Waste Center of Excellence	http://www.em.doe.gov/em-30esp/	Defines existing policies and strategies for addressing complex-wide waste storage, treatment, and disposal needs.	✓	✓	Tables can be selected independently from Table of Contents.
General	Paths to Closure Data Reporting Tool	DOE Headquarters	http://doe-web-rpt.em.doe.gov/	Reporting of Paths to Closure information on PBS level.	✓	✓	Capable of generating Detail reports with data at Operations Office Summary Level, Site Summary Level, and Project Baseline Level, and Rollup Reports with data at the EM level, Operations Office level, and Site level.
General	FUSRAP Report to Congress	US Army Corps of Engineers (USACE)	http://www.fusrap.usace.army.mil/fusrap/newsinf/report.pdf	Presents USACE's assessment of FUSRAP sites.	✓		
General	US DOE Summary of Transportation Activities for FY95 &96	DOE National Transportation Program	http://www.ntp.doe.gov/summary/index.html	Provides an overview of DOE shipment activities for FY95&96.	✓	✓	Tables are embedded within sections.

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
General	HAZMAT/RAM Truck Shipments Through Arizona	DOE National Transportation Program	http://www.ntp.doe.gov/azdetail.html	Provides summary of shipment through Arizona.		✓	Table can be viewed independently.
General	HAZMAT/RAM Truck Shipments Through New Mexico by Hazard Class and Origin/ Destination Pair	DOE National Transportation Program	http://www.ntp.doe.gov/nmdetai2.html	Provides summary of shipments through New Mexico by Hazard Class and Origin/Destination Pair		✓	Tables can be viewed independently by hazard class.
General	Haztrak	DOE Nevada	http://www.nv.doe.gov/programs/xportmgt/haztrak.asp	Provides information, updated daily, on shipments to and from the Nevada Test Site.	✓		
General	ES&H Validated Site Profiles	DOE Office of Environment, Safety and Health	http://tis-hq.eh.doe.gov/oversight/profiles/profiles.html	Provides a list of site profiles which can be accessed through hyperlinks			

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
General	National Nuclear Data Center	Brookhaven National Laboratory	http://www.nndc.bnl.gov/	Provides information services in the fields of low and medium energy nuclear physics to users in the United States and Canada			
General	DOE R&D Project Summaries	Department of Energy	http://www.doe.gov/rnd/dbhome.html	Access to over 14,000 R&D projects currently ongoing within the DOE can be found within this application.	✓		
General	National Priorities List (NPL) Sites in the United States	Environmental Protection Agency	http://www.epa.gov/superfund/sites/npl/npl.htm	Provides detailed information on the National Priorities List sites in the U.S.	✓	✓	The sites are grouped by EPA region, State and county. For each site there is a site summary and a link to the Federal Registry Notice.
General	DOE NEPA Analyses	DOE Office of Environment, Safety and Health	http://tis.eh.doe.gov/nepa/docs/docs.htm	Provides links mostly to EISs and RODs	✓		

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
General	DOE Information Bridge	Department of Energy/ Government Printing Office	http://gpo.osti.gov:901/dds/entry.html	Provides free, convenient and quick access to full-text DOE research and development reports.	✓		
General	Environment, Safety and Health Digital Library	DOE Office of Environment, Safety and Health	http://tis-nt.eh.doe.gov/library/library.html	Provides various tools for finding, using, and analyzing Environment, Safety & Health information			
General	Office of Fissile Materials Deposition Homepage	DOE Office of Fissile Materials Deposition	http://twilight.saic.com/md/	Contains information on the disposition of Plutonium, HEU, and other fissile materials. Website contains documents with costs, schedules, and inventories.			

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
General	Paths to Closure Disposition Maps	DOE Office of Environmental Management	http://dev.em.doe.gov/closure/mapmenu.html	Provides waste disposition maps for all operations/field/area offices and sites. Created in conjunction with the 1998 Accelerated Cleanup:Paths to Closure Report.			Disposition maps are in PDF format
General	Plutonium: The First 50 Years	DOE Office of Science and Technical Information	http://apollo.osti.gov/html/osti/opennet/document/pu50yrs/pu50y.html	The focus of this report is on the historical plutonium acquisitions and removals that have resulted in the September 30, 1994 plutonium inventory.	✓		

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
General	DOE EM Waste Management Homepage	DOE Office of Environmental Management	http://www.em.doe.gov/em30/	Links to all waste management websites including documents and databases. Includes information on both international waste management and waste management in the United States.			
General	Waste Management Documents, Reports, Studies, Etc.	DOE Office of Environmental Management	http://www.em.doe.gov/em30/wasterept.html	Contains waste management documents, reports, plans and studies.	✓		
Site-Specific	Hanford Waste Information Data System	Richland Operations Office	http://www.bhi-erc.com/dm/wids/wids.htm	Summarizes the history and status of Hanford waste sites.	✓		Searchable using the Environmental Data Viewer located at http://www.bhi-erc.com/mojomap/hanford_MF.htm .

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
Site Specific	Hanford Management Documents	Richland Operations Office	http://www.hanford.gov/oe/10yrplan/hmd.htm	Contains documents on the waste management process, a Site Treatment Plan Summary, and a Mixed Waste Focus Area Report.			
Site-Specific	Pantex Plant 1997 Environmental Report	Pantex Plant	http://www.pantex.com/aser/index.htm	Summarizes data from the environmental protection and monitoring program at Pantex Plant through December 31, 1997.	✓	✓	Tables embedded within chapters.
Site Specific	Pantex Plant Electronic Reading Room	Pantex Plant	http://www.pantex.com:90/topicpdf/docs/index.htm	Provides daily management reports			

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
Site-Specific	Radioactive Waste Management Complex Investigations Report (Volumes 1-4)	Idaho National Environmental and Engineering Laboratory	http://ar.inel.gov/ar/owa/search_inel_by_date_2	Summarizes key investigations pertinent to site characterization of the Subsurface Disposal Area at the Idaho National Engineering Laboratory Radioactive Waste Management Complex.	✓	✓	Tables embedded within chapters.
Site-Specific	WIPP Compliance Certification Application (CCA) Library	Carlsbad	http://www.wipp.carlsbad.nm.us/library/cca/cca.htm	Library with general information on the WIPP CCA. There is a link to the DOE Application - "October 1996 CCA documents" providing a Table of Contents for the application and appendices.	✓	✓	

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
Site-Specific	Waste Management Progress, A Status Report of Waste Management Activities at Idaho National Engineering and Environmental Laboratory (INEEL)	Idaho National Environmental and Engineering Laboratory	http://ar.inel.gov/ar/owa/getimage_2?F_PAGE=1&F_DOC=15235&F_REV=00	Discusses the accomplishments, goals, and challenges posed by treating, storing, and disposing of spent nuclear fuel, and other waste streams	✓		
Site-Specific	Summary Sheet Operable Unit I/VI RI/RA: Southeast Area of the Laboratory	Brookhaven National Laboratory	http://www.oer.dir.bnl.gov/edb-ri.html	Summarizes RI/RA for soil and groundwater contamination in areas of the southeastern portion of BNL.	✓		

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
Site-Specific	Summary Sheet Operable Unit V RI/RA: Eastern Area of the Laboratory	Brookhaven National Laboratory	http://www.oer.dir.bnl.gov/ou5-rira.html	Presents an evaluation of the nature and extent of contamination in the Eastern Area of the Laboratory.	✓		
Site Specific	Brookhaven Environmental Restoration Activities	Brookhaven National Laboratory	http://www.oer.dir.bnl.gov/oer-act.html	Provides summary sheets for environmental restoration activities	✓		
Site-Specific	1995 Lawrence Berkeley National Laboratory (LBNL) Site Environmental Report	Lawrence Berkeley National Laboratory	http://ehs.lbl.gov/epg/95ser/sermain.htm	Summarizes environmental site activities at LBNL for CY95.	✓	✓	Tables can be selected independently from Table of Contents.

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
Site-Specific	1997 Lawrence Livermore National Laboratory (LLNL) Site Annual Environmental Report	Lawrence Livermore National Laboratory	http://www.llnl.gov/saer/saer97/saer97_home.html	Presents the results of LLNL's environmental monitoring and compliance efforts.	✓	✓	Tables are embedded within chapters.
Site-Specific	LLNL Site Conditions	Lawrence Livermore National Laboratory	http://www.llnl.gov/pe/s300_comp_plan/contam.html	Provides maps and descriptions of site contamination and remediation at LLNL.	✓	✓	
Site-Specific	LLNL Publications	Lawrence Livermore National Laboratory	http://www.llnl.gov/llnl/001index/08pub-index.html	Publications include Science and Technology Catalog, designed to locate the Laboratory's web pages on Science and Technology Annual Reports.			

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
Site-Specific	LANL Library	Los Alamos National Laboratory	http://lib-www.lanl.gov/	Provides information resources to the Los Alamos National Laboratory research community. The primary focus is on energy and related topics			
Site-Specific	Stanford Linear Accelerator Center (SLAC) 1997 Site Environmental Report	Stanford Linear Accelerator Center	http://www.slac.stanford.edu/pubs/slacreports/slac-r-525.html	Summarizes environmental site activities at SLAC for CY97.	✓	✓	Tables are embedded within chapters.
Site-Specific	Grand Junction Office Site Environmental Report for CY1997	Grand Junction Projects Office	http://www.doegjpo.com/projects/aser-97/ser.htm	Presents information pertaining to environmental activities conducted during CY97.	✓	✓	Tables can be selected independently from Table of Contents.

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
Site-Specific	Oak Ridge Reservation Annual Site Environmental Report for 1997	Oak Ridge Reservation	http://www.ornl.gov/Environ/AsesRpt/aser97/aser.htm	Presents information pertaining to environmental activities conducted during CY97.	✓	✓	Tables containing radionuclide data can be accessed from Table of Contents by selecting Annual Site Environmental Data for 1997.
Site-Specific	Oak Ridge Environmental Information System	Oak Ridge Reservation	http://www-oreis.bechteljacobs.org:8080/oreis/help/oreishome.html	OREIS provides efficient retrievability and long-term (>3 years) retention of Oak Ridge Operations, Portsmouth, and Paducah environmental data.		✓	
Site-Specific	Mound Plant Legacy Waste Management Project	Mound Plant	http://www.doe-mdo.gov/legacy/projtemp.htm	Summarizes Legacy Waste Management Project.	✓	✓	Tables are embedded within text.

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
Site-Specific	Rocky Flats Closure Project Management Plan	Rocky Flats	http://www.rfets.gov/SiteClosure/RockyFlatsManagementPlan.pdf	Outlines specific actions that DOE is taking to accelerate the cleanup and closure of Rocky Flats.	✓		
Site-Specific	Rocky Flats Environmental Technology Site	Rocky Flats	http://www.rfets.gov	Information on site closure: Cleanup Agreements, Closure Project Management Plan, Budget Prioritization Planning Information. Describes several Rocky Flats facts.	✓		
Site-Specific	Sandia's Technical Library	Sandia National Laboratories	http://www.sandia.gov/library.htm	Technical library that has online data on information products and services that support Sandia Research.	✓		

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	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
Site-Specific	Savannah River Site Environmental Report for 1997	Savannah River Site	http://www.srs.gov/general/srenviro/endrpt/rptall.pdf	Presents information pertaining to environmental activities conducted during CY97.	✓	✓	Tables available in Data Book located at http://www.srs.gov/general/srenviro/endrpt/tableall.pdf .
Site-Specific	Savannah River home page	Savannah River Site	http://www.srs.gov/general/srs-home.html	Provides site-wide environmental report, scientific and technical, and National Academy of Sciences report on Research Reactor Aluminum Spent Fuel.			Environmental report is available in HTML, scientific and technical information is available in PDF and is listed alphabetically by document title. The NAS report is accessed through a link to NAS.

Data Integration and Linkages

	System	Owner	URL	General Description/ Intent	Narrative Data	Tabular Data	Report/Query Capabilities
Site-Specific	Yucca Mountain Site Characterization Project	Yucca Mountain Site	http://www.ymp.gov/reference/index.htm	Provides host of information on Yucca Mountain project ranging from technical guides to data to news releases. Includes links to the following databases: <ul style="list-style-type: none"> - Automated Technical Data Tracking System - Geographic Information database - Site and Engineering Properties database 			

