



Formerly Utilized Sites Remedial Action Program

FACT SHEET

This fact sheet provides information about the Formerly Utilized Sites Remedial Action Program sites. When remedial action for a site is complete, the site will be managed under the U.S. Department of Energy Office of Legacy Management.

Background

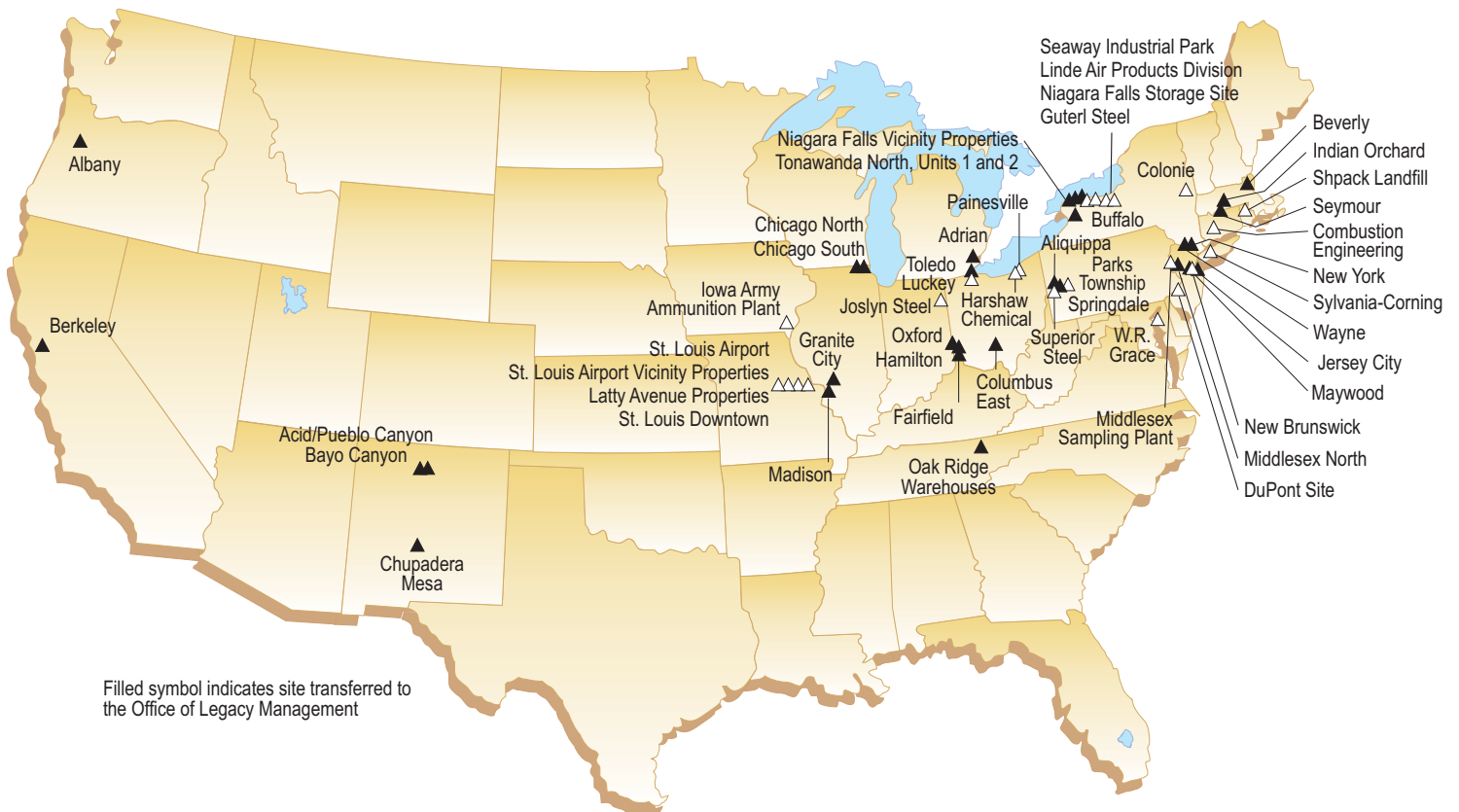
The U.S. Atomic Energy Commission (AEC) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in March 1974 to evaluate radioactive contamination at sites where work was performed to develop the nation's nuclear weapons and early atomic energy program.

In August 1942, the U.S. Army directed the Manhattan Engineer District of the U.S. Army Corps of Engineers to manage development of the technology and production facilities for the first atomic weapons. In August 1946, President Truman signed the Atomic Energy Act, which created the civilian AEC. Congress abolished the Manhattan Engineer District on January 1, 1947, and transferred responsibility for the atomic weapons program to the newly formed AEC.

Through the 1960s, AEC employed contractors at many sites throughout the United States to supply materials

and services. Activities included processing and storing uranium and thorium ores and other radioactive materials for the nuclear weapons program, performing metallurgical research, and providing production and machining services. Although most of the sites were cleaned up to guidelines that were in effect at the time, more stringent standards have been put into effect since then. AEC identified a need to reexamine the sites in the early 1970s to evaluate potential risks to human health and the environment where levels of radioactive contamination might exceed the new standards.

In 1977, administration and execution of FUSRAP was assumed by the U.S. Department of Energy (DOE), whose initial task was to identify potential FUSRAP sites for cleanup. After reviewing records and radiological survey data for more than 500 sites connected with the nuclear weapons program, DOE identified 46 sites that required cleanup. Limited cleanup began in 1979, and major



remedial action was underway in 1981. Between 1981 and 1997, DOE remediated 25 of the 46 sites.

Congress transferred responsibility for FUSRAP site characterization and remediation to the U.S. Army Corps of Engineers (USACE) in 1997 as part of the Energy and Water Development Appropriations Act of 1998. USACE is remediating the remaining sites within the framework of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the National Contingency Plan.

A 1999 Memorandum of Understanding between USACE and DOE defined the roles of each agency in administering and executing FUSRAP. DOE assumed responsibility for the 25 sites cleaned up between 1981 and 1997 and, beginning in 2004, the DOE Office of Legacy Management (LM) is responsible for surveillance, operation, and maintenance of the sites, including monitoring and enforcement of any institutional controls imposed on the sites. Institutional controls typically depend on some legal order such as zoning ordinances, laws, and deed restrictions to protect public health and the environment from hazardous substances left in place at a site or to ensure the effectiveness of the remedy.

USACE assumed responsibility for cleanup of the remaining 21 of the 46 sites that DOE identified in the original assessment. USACE retains responsibility for surveillance, operation, and maintenance at a site for 2 years after site closeout, defined as the completion of cleanup and publication of a notice in accordance with the provisions of CERCLA, the National Contingency Plan, and USACE procedures. Beginning 2 years after site closeout, DOE assumes responsibility for long-term surveillance and maintenance of the site, including enforcement of any institutional controls imposed on the site.

Potential New Sites

After further research or receipt of new information, DOE identified several additional sites that are potential candidates for remediation under FUSRAP. These sites had to have been involved in MED/AEC work to be eligible for remediation under FUSRAP. DOE has referred these sites to USACE, which will perform preliminary assessments to evaluate contaminant levels. USACE will propose that sites be added to the program where risks or contaminant levels exceed current standards. Congress may also designate a site for remediation under FUSRAP. Since 1997, seven additional sites have been added to FUSRAP.

Current Status

DOE is responsible for the 25 sites that were completed before 1997. Since then, USACE has completed five additional sites and has transferred responsibility for those

sites to DOE as well. USACE currently is responsible for remediation of the remaining sites.

USACE has also performed additional assessment work at the New Brunswick site in New Jersey. In accordance with the 1997 legislation and the 1999 Memorandum of Understanding, if additional assessment or remedial action is required for a FUSRAP site that has been transferred to DOE for long-term surveillance and maintenance, USACE will perform the additional work.

In April 2009, DOE identified previously unassessed radioactive contamination at the Middlesex North (Middlesex Municipal Landfill), New Jersey, Site, and referred the site to the Corps of Engineers for further assessment and characterization. Since then, DOE has also referred a site on Staten Island, New York, and a site in Brooklyn, New York, to USACE for assessment and possible inclusion into FUSRAP.

Legacy Management Activities

DOE remediated most of the FUSRAP sites to a condition that allows unrestricted use of the site following cleanup. These sites pose no risk for any possible future land use, including subsistence farming. The subsistence farming land-use scenario is the most restrictive because it assumes that humans living on the property will consume food that is produced on the property. Contaminants must be removed to the point that possible routes of exposure (ingestion, direct exposure, and inhalation) present no risk to human health. For these sites, DOE long-term surveillance and maintenance activities consist of responding to questions or concerns from stakeholders and managing site records so future custodians may readily answer questions or concerns about the site.

At some sites, residual contaminants were left in place, and some site uses must be restricted. At those locations, DOE will monitor land use to ensure protection of human health and the environment. DOE will conduct site surveillance and monitoring activities in accordance with approved site-specific plans. Activities may include site inspections and reporting, maintenance of access controls, environmental monitoring, records and data management, and responses to stakeholder concerns.

Regulatory requirements are described in site documents available on the LM website at <http://energy.gov/lm>.

DOE will manage the FUSRAP Considered Sites Database to provide public access to information about all the sites that were evaluated during the search for potential FUSRAP sites. This information documents eligibility determinations and characterization, remediation, verification, and certification activities for all FUSRAP sites. The Considered Sites Database is available to the public online at <http://energy.gov/lm/sites/lm-sites/considered-sites>.

Completed FUSRAP Sites Assigned to LM

Alternate site names are shown in parentheses

Acid/Pueblo Canyon Site Los Alamos, New Mexico	Chupadera Mesa Site White Sands, New Mexico	New York, New York, Site (Baker and Williams Warehouses)
Adrian, Michigan, Site (General Motors)	Columbus East, Ohio, Site (B & T Metals)	Niagara Falls Vicinity Properties Site Lewiston, New York (Niagara Falls Storage Site Vicinity Properties)
Albany, Oregon, Site (Albany Research Center)	Fairfield, Ohio, Site (Associate Aircraft)	Oak Ridge, Tennessee, Warehouses Site (Elza Gate)
Aliquippa, Pennsylvania, Site (Aliquippa Forge)	Granite City, Illinois, Site (Granite City Steel)	Oxford, Ohio, Site (Alba Craft Laboratories)
Bayo Canyon Site Los Alamos, New Mexico	Hamilton, Ohio, Site (Herring-Hall Marvin Safe Co.)	Seymour, Connecticut, Site (Seymour Specialty Wire)
Berkeley, California, Site (University of California)	Indian Orchard, Massachusetts, Site (Chapman Valve)	Springdale, Pennsylvania, Site (C.H. Schnorr)
Beverly, Massachusetts, Site (Ventron)	Jersey City, New Jersey, Site (Kellex/Pierpont)	Toledo, Ohio, Site (Baker Brothers)
Buffalo, New York, Site (Bliss & Laughlin Steel)	Madison, Illinois, Site (Spectrulite, DOW)	Tonawanda North, New York, Site, Units 1 and 2 (Ashland 1 and Ashland 2)
Chicago North, Illinois, Site (National Guard Armory)	Middlesex North, New Jersey, Site (Middlesex Municipal Landfill)	Wayne, New Jersey, Site (W.R. Grace)
Chicago South, Illinois, Site (University of Chicago)	New Brunswick, New Jersey, Site (New Brunswick Laboratory)	

Active FUSRAP Sites* Assigned to U.S. Army Corps of Engineers

Colonie Site Colonie, New York	Linde Air Products Division Site Tonawanda, New York	St. Louis Downtown Site St. Louis, Missouri
Combustion Engineering Site Windsor, Connecticut	Lucky, Ohio, Site	Seaway Industrial Park Site Tonawanda, New York
DuPont Site Deepwater, New Jersey	Maywood, New Jersey, Site	Shpack Landfill Site Attleboro, Massachusetts
Guterl Steel Site Lockport, New York	Middlesex Sampling Plant Middlesex, New Jersey	Superior Steel Site Carnegie, Pennsylvania
Harshaw Chemical Site Cleveland, Ohio	Niagara Falls Storage Site** Lewiston, New York	Sylvania-Corning Site Hicksville, New York
Iowa Army Ammunition Plant Burlington, Iowa	Painesville, Ohio, Site	W.R. Grace Co. Site Curtis Bay, Maryland
Joslyn Steel Site Ft. Wayne, Indiana	Parks Township Shallow Land Disposal Area Apollo, Pennsylvania	
Latty Avenue Properties Site Hazelwood, Missouri	St. Louis Airport Site St. Louis, Missouri	
	St. Louis Airport Vicinity Properties Site Hazelwood and Berkeley, Missouri	

*Additional sites may be added
**Includes three vicinity properties.

Resources

2001 Report to Congress on Long-Term Stewardship
http://ndep.nv.gov/lts/lts_report_congress_vol1.pdf

Considered Sites Database
<http://energy.gov/lm/sites/lm-sites/considered-sites>

DOE Legacy Management website
<http://energy.gov/lm>

U.S. Army Corps of Engineers website
<http://www.usace.army.mil/Missions/Environmental/FUSRAP.aspx>

Contacts

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