



Madison, Illinois, Site

FACT SHEET

*This fact sheet provides information about the Madison, Illinois, Site.
This site is managed by the U.S. Department of Energy Office of Legacy Management.*

Site Description and History

The Madison, Illinois, Site (formerly known as Spectralite Corporation site or Dow Chemical Company site) is located northeast of and across the Mississippi River from St. Louis, Missouri. The site consists of a multisectional complex of 10 interconnecting buildings with a total under-roof area of 1.4 million square feet.

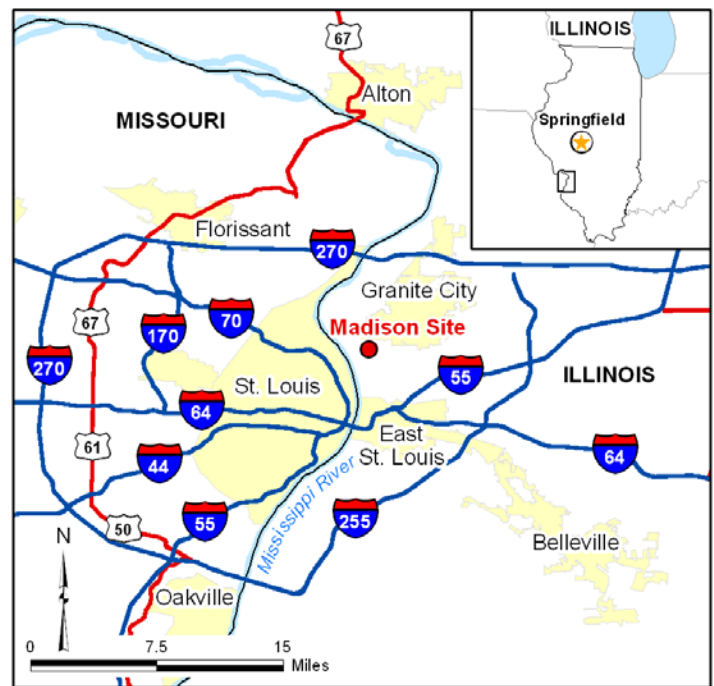
During the late 1950s and early 1960s, the Dow Metal Products Division of Dow Chemical Company machined and shaped uranium metal and straightened uranium rods for the U.S. Atomic Energy Commission (AEC), a predecessor agency of the U.S. Department of Energy (DOE). This work was conducted under subcontract to the Uranium Division of the Mallinckrodt Chemical Works.

The work conducted for AEC resulted in residual radioactive contamination in Building 6, a large multistory metal building with a concrete floor; and in the adjoining Building 4, which was used for material transfers.

In 1989, Oak Ridge National Laboratory conducted a radiological survey at the site in areas where Dow had performed work for AEC. The radiological survey indicated that approximately 2 cubic yards of dust located on overhead surfaces in Building 6 contained low-level uranium contamination exceeding DOE guidelines. The Madison site was designated for remedial action under the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1992.

In 1998, the U.S. Army Corps of Engineers (USACE) performed a characterization survey to evaluate interior structural surfaces in the vicinity of the former AEC operations. USACE also surveyed other interior surfaces in Buildings 4 and 6, the exterior Building 6 roof, ground areas immediately outside the doors of Buildings 4 and 6, equipment surfaces, and pits and trenches beneath the floors.

In June 2000, USACE remediated the Madison site over a 12-day period. Remediation included vacuuming, scraping, and sweeping approximately 60,000 pounds of dust and debris from overhead surfaces, including window ledges, utility conduits, trusses, and cross-member beams. The debris was



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Location of the Madison, Illinois, Site

then shipped to a licensed facility for permanent disposal. In addition, a few pieces of asbestos-containing material were found on some surfaces and were removed along with the dust for proper disposal.

Regulatory Setting

AEC established 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. After reviewing records and radiological surveys for more than 600 sites connected with the nuclear weapons program, DOE identified 46 sites that required cleanup, including the Madison site. Congress transferred responsibility for FUSRAP site characterization and remediation to the USACE in 1997. DOE retains responsibility for long-term surveillance and maintenance of remediated FUSRAP sites.

USACE remediated the contaminated areas to site-specific numerical standards established in a Record of Decision for the Madison site issued May 26, 2000.

Cleanup criteria included dose limits specified in Title 10, *Code of Federal Regulations*, Part 20. After obtaining concurrence from the State of Illinois Department of Nuclear Safety, USACE issued the site closure report and declaration of completion of remedial action on September 14, 2001.

In 2002, USACE transferred responsibility for the site to the DOE Office of Legacy Management (LM).

Current Site Conditions

Post-remedial-action survey results indicate that the radiological condition of the Madison site is in compliance with the standards established in the Record of Decision, and USACE has released the site for unrestricted use. The site has been restored to a condition acceptable to the owner.

Legacy Management Activities

No monitoring, maintenance, or site inspections are required for the Madison site. LM's responsibilities consist of managing site records and responding to stakeholder inquiries.

Additional Information

Documents related to the Madison site are available on the LM website at <http://www.lm.doe.gov/madison/Sites.aspx>.

For more information about LM's activities at the Madison site, contact:

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Office of Legacy Management
2597 Legacy Way, Grand Junction, CO 81503

(970) 248-6070 (monitored continuously), or
(877) 695-5322 (toll-free)