

Missouri Department of Conservation

Natural Heritage Review Report

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July 11, 2

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Office of Federal and State Materials and
Environmental Management Programs

July 11, 2

Project type:

Location/Scope:

County:

Washington, DC 20555-0001

US Nuclear Regulatory Commission

Project type: Disposal of Nuclear Material cation/Scope: Hematite Fuel Cycle Facility

County: Jefferson

Query reference: Proposed Disposal of Low Activity Radioactive Wastes from the

Query received: July 1, 2013 Westinghouse Electric Company Hematite Decommissioning Project

considered. Look for additional information about the biological and habitat needs of records listed in order to avoid or minimize impacts. More information may be found at does not mean a protected species will not be encountered. These records only provide one reference and other information (e.g. wetland or soils maps, on-site inspections or surveys) should be not necessarily at the project site. Animals move and, over time, so do plant communities. To say "there is a record" does not mean the species/habitat is still there. To say that "there is no record" affected by the proposed project. On-site verification is the responsibility of the project. Natural Heritage records were identified at some date and location. This report considers records near but This NATURAL HERITAGE REVIEW is not a site clearance letter. Rather, it identifies public lands and sensitive resources known to have been located close to and/or potentially

Natural Heritage records identify no wildlife preserves, no designated wilderness areas or critical habitats, no federal-listed species Level 3 issues: Records of federal-listed (these are also state-listed) species or critical habitats near the project site: http://mdc.mo.gov/discover-nature/places-go/natural-areas and mdc4.mdc.mo.gov/applications/mofwis/mofwis_search1.aspx. Contact information for the department's Natural History Biologist is

records within one mile of the site, or in the public land survey section listed above or sections adjacent.

ground cover is reestablished. Revegetate areas in which the natural cover is disturbed to minimize erosion using native plant species any "Clean Water Permit" conditions. Pollutants, including sediment, can have significant impacts on aquatic resources. Use silt compatible with the local landscape and wildlife needs fences and/or vegetative filter strips to buffer streams and drainages, and monitor those after rain events and until a well-rooted The project should be managed to minimize erosion and sedimentation/runoff to nearby streams and lakes, including adherence to

FEDERAL LIST species/habitats are protected under the Federal Endangered Species Act. Consult with U.S. Fish and Wildlife Service, 101 Park Deville Drive Suite A, Columbia, Missouri 65203-0007; 573-234-2132

communities due to population declines and/or apparent vulnerability. endangered) species and natural communities of conservation concern. The Department tracks these species and natural Level 2 issues: Records of state-listed (not federal-listed) endangered species AND / OR state-ranked (not state-listed

because of other factors making it vulnerable to extirpation. Typically 21 to 100 occurrences or between 3,000 and 10,000 individuals. vulnerable in the state- this species is rare and uncommon, or found only in a restricted range (even if abundant in some locations), or dolomite glades support populations of state-rank S3 Fremont's leather flower (Clematis fremontii). The state-rank S3 is defined as Natural Heritage records identify dolomite glade natural communities (state-rank S3) within one mile north of the Hematite facility. The

See http://mdc.mo.gov/sites/default/files/resources/2010/04/2013 species concern.pdf for a complete list of species and communities

(unrelated to any specific heritage records): General recommendations related to this project or site, or based on information about the historic range of species

- Jefferson County has known karst geologic features (e.g. caves, springs, and sinkholes, all characterized by subterranean water movement). Few karst features are recorded in natural heritage records, and ones not noted here may be encountered at the project site or affected by the project. Cave fauna (many of which are species of conservation concern) are influenced by changes See http://mdc.mo.gov/nathis/caves/manag_construc.htm for best management information. to water quality, so check your project site for any karst features and make every effort to protect groundwater in the project area
- Streams in the area should be protected from soil erosion, water pollution and in-stream activities that modify or diminish aquatic Best management recommendations relating to streams and rivers may be found at:
- > Invasive exotic species are a significant issue for fish, wildlife and agriculture in Missouri. Seeds, eggs, and larvae may be moved to new sites on boats or construction equipment, so inspect and clean equipment thoroughly before moving between project sites http://mdc.mo.gov/sites/default/files/resources/2013/02/constprojnearstreams_2013.pdf.
- Remove any mud, soil, trash, plants or animals from equipment before leaving any water body or work area
- Drain water from boats and machinery that has operated in water, checking motor cavities, live-well, bilge and transom wells tracks, buckets, and any other water reservoirs.
- When possible, wash and rinse equipment thoroughly with hard spray or HOT water (≧104° F, typically available at do-ityourself carwash sites), and dry in the hot sun before using again.

These recommendations are ones project managers might prudently consider based on a general understanding of species needs and landscape conditions. Natural Heritage records largely reflect only sites visited by specialists in the last 30 years. This means that many privately owned tracts could host unknown remnants of species once but no longer common