

2.0 ENVIRONMENTAL DESCRIPTION

2.1 SITE LOCATION

Callaway Plant Unit 2 is located northwest of Callaway Plant Unit 1 within the Callaway Plant site as shown in Figure 2.1-1.

The Callaway Plant site is located in Callaway County, Missouri, approximately 10 miles (16 km) southeast of Fulton and 80 miles (129 km) west of the St. Louis metropolitan area. The Missouri River flows in an easterly direction approximately 5 miles (8 km) south of the site at its closest point. The elevation of about 1530 ft (466 m) above mean sea level (msl) on the north and south sides of the river define the Missouri River flood plain, which is about 2.4 miles (3.9 km) wide in this area.

The Callaway Plant site is situated in an area of gently rolling upland, once part of an old glacial till plain. Erosion and downcutting of the Missouri River and its tributary streams have dissected the plain, leaving a nearly isolated plateau of approximately 8 sq mi (21 sq km). The plateau has a maximum elevation of 858 ft (262 m) msl. The overall drop in elevation between the crest of the plateau and the Missouri River is about 350 ft (107 m).

Surface drainage to the east and northeast is to Logan Creek. Mud Creek is a major drainage way from the south and southwestern side of the site. Auxvasse Creek, a major tributary to the Missouri River located about 2 miles (3.2 km) west of the site area, intercepts surface drainage from the western and northern flanks of the plateau.

Dominant existing land uses within 8 miles (13 km) of the Callaway Plant site include Grassland (20.8%), Deciduous Forest (50.6%), and Cropland (17.1%).

AmerenUE owned property includes the 2,765 acre (1,119 hectare) Plant Site Area, a Peripheral Area surrounding the Plant Site Area of 2,454 acres (993 hectares), and the approximately 2,135 acre (864 hectare) Corridor Area, which contains the water intake and blowdown lines.

The center of the Callaway Plant site is defined as the midpoint between the Callaway Plant Unit 1 reactor and Callaway Plant Unit 2 reactor. The midpoint is at latitude 38 degrees, 45 minutes, 45.53 seconds north latitude and 91 degrees, 46 minutes, 56.34 west longitude.

The 50 miles (80 km) region around the Callaway site is shown in Figure 2.1-2 while the 8 mile (13 km) vicinity is shown in Figure 2.1-3. An oblique aerial photograph of the Callaway site is shown in Figure 2.1-4.

Figure 2.1.1-1—Callaway Plant Site and Proposed New Plant Layout

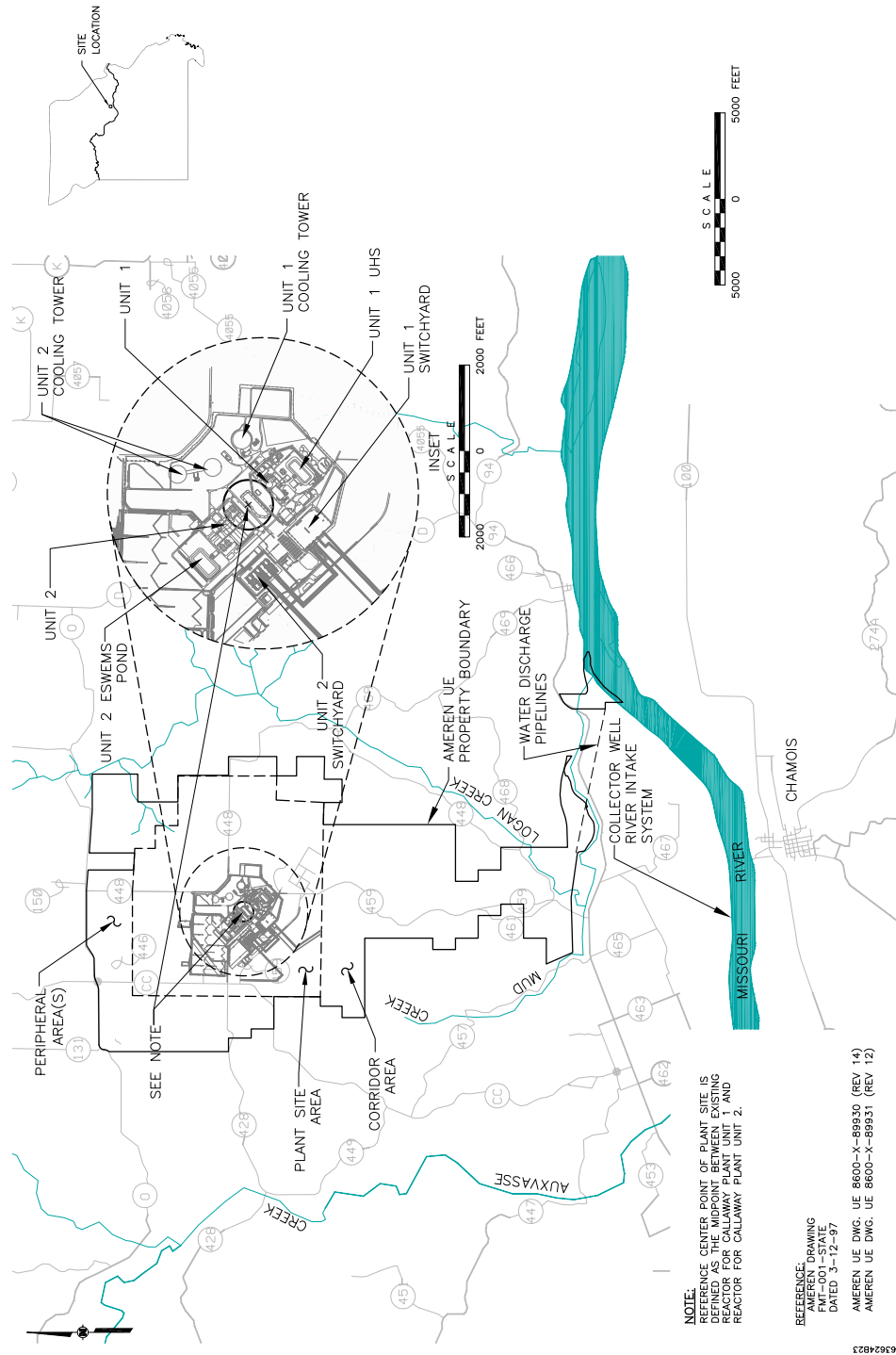


Figure 2.1-2—Callaway Plant Site 50 Mile (80 km) Region

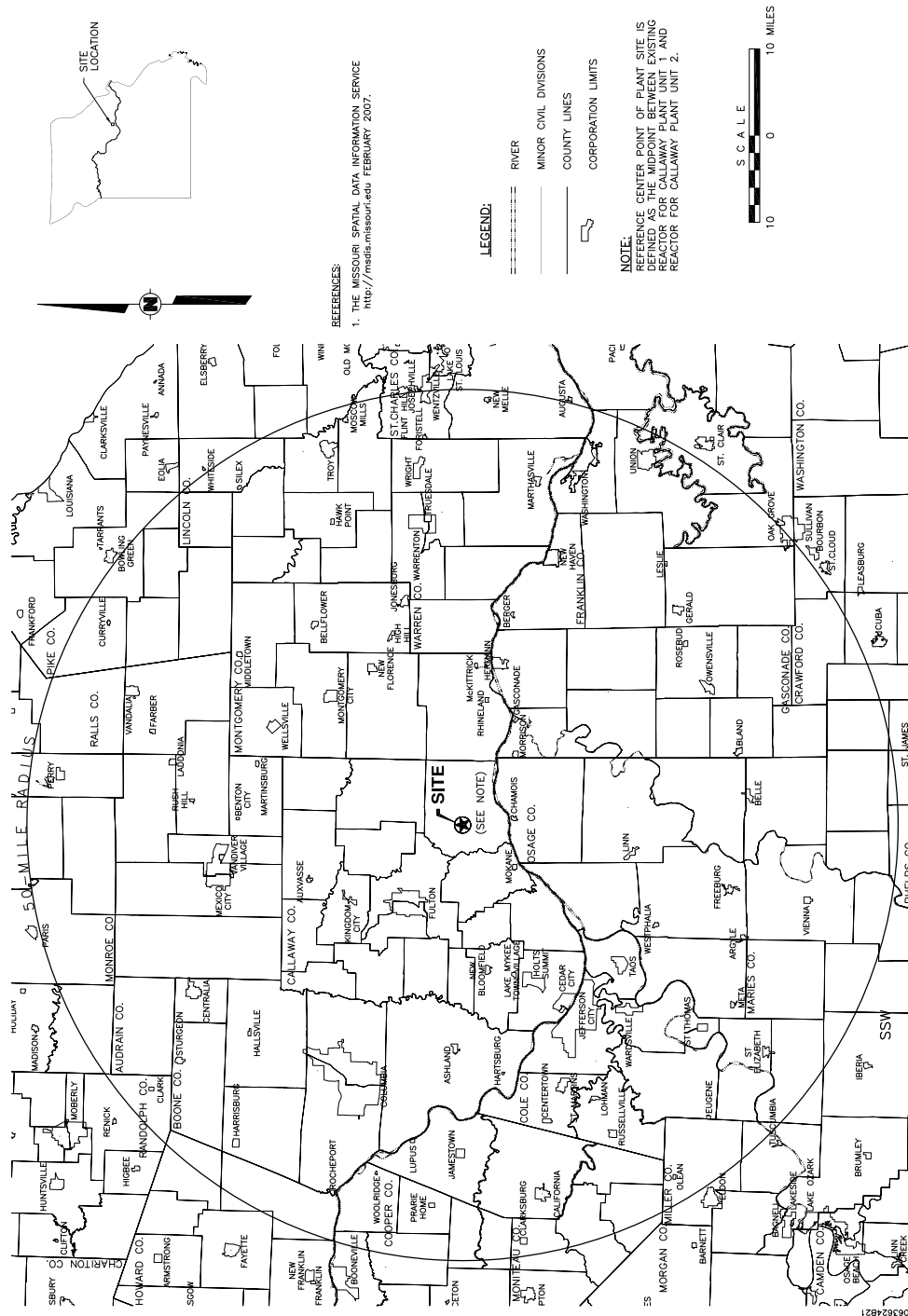
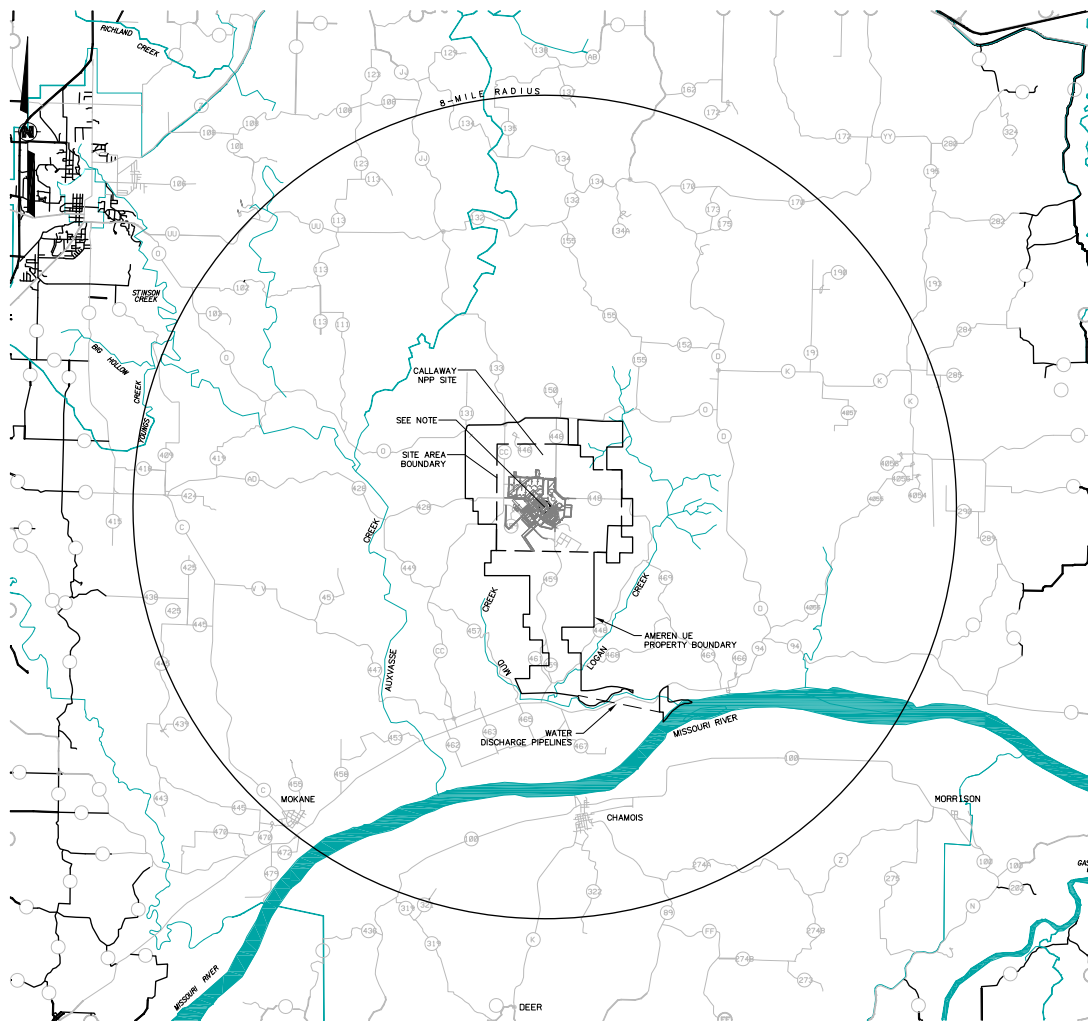


Figure 2.1-3—Callaway Plant Site 8 Mile (13 km) Vicinity**NOTE:**

REFERENCE CENTER POINT OF PLANT SITE IS
DEFINED AS THE MIDPOINT BETWEEN EXISTING
REACTOR FOR CALLAWAY PLANT UNIT 1 AND
REACTOR FOR CALLAWAY PLANT UNIT 2.

**REFERENCE:**

AMEREN DRAWING
FMT-001—STATE
DATED 3-12-97

AMEREN UE DWG. UE 8600-X-89930 (REV 14)
AMEREN UE DWG. UE 8600-X-89931 (REV 12)

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Figure 2.1-4—Oblique Aerial Photo Showing Callaway Plant Site

