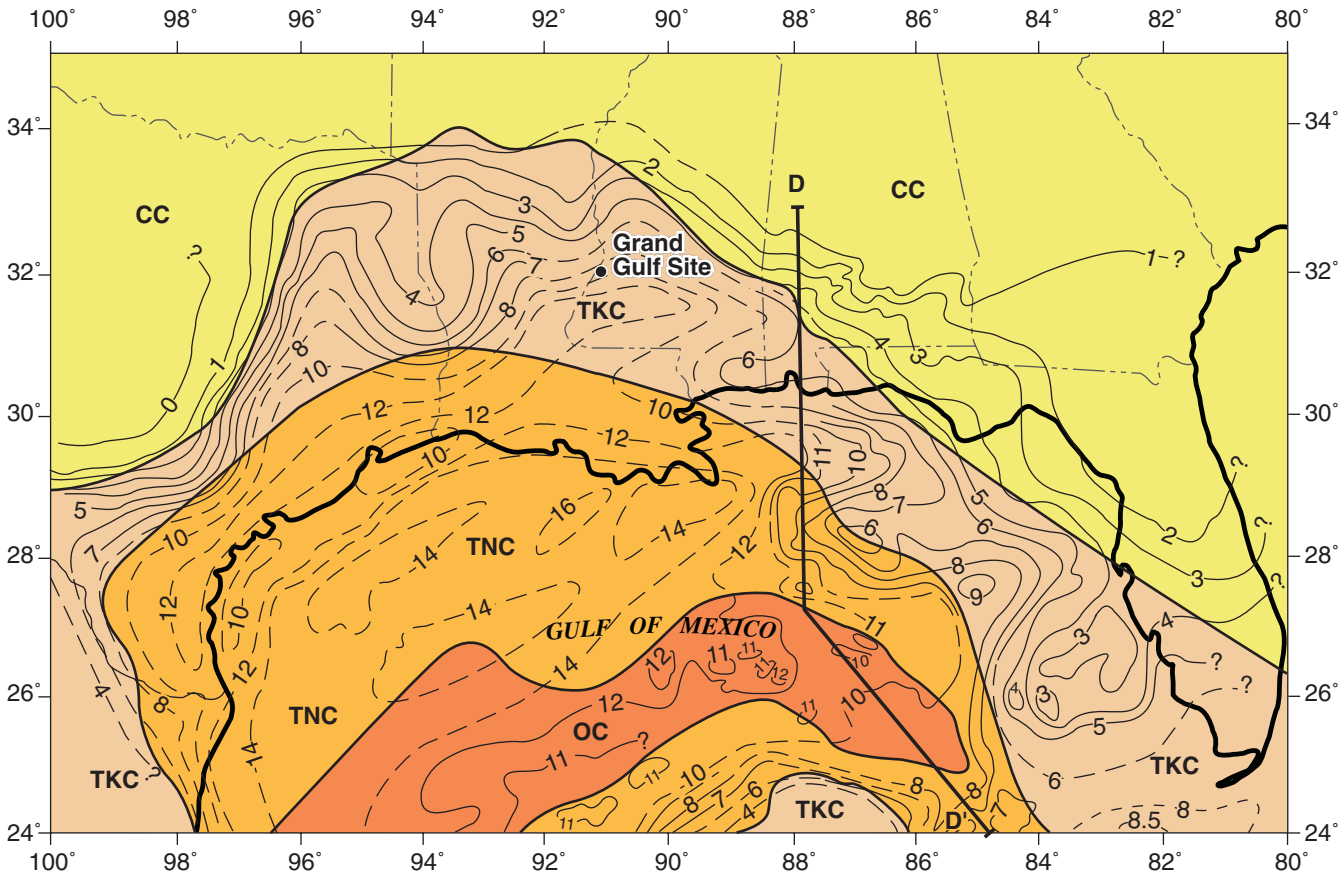

Explanation

- Continental crust
- Thick transitional crust
- Thin transitional crust
- Oceanic crust

Note: to convert depths from kilometers to miles, multiply depth shown by 0.6.
Modified from Sawyer et al., 1991

N

0 200 400 km

Scale

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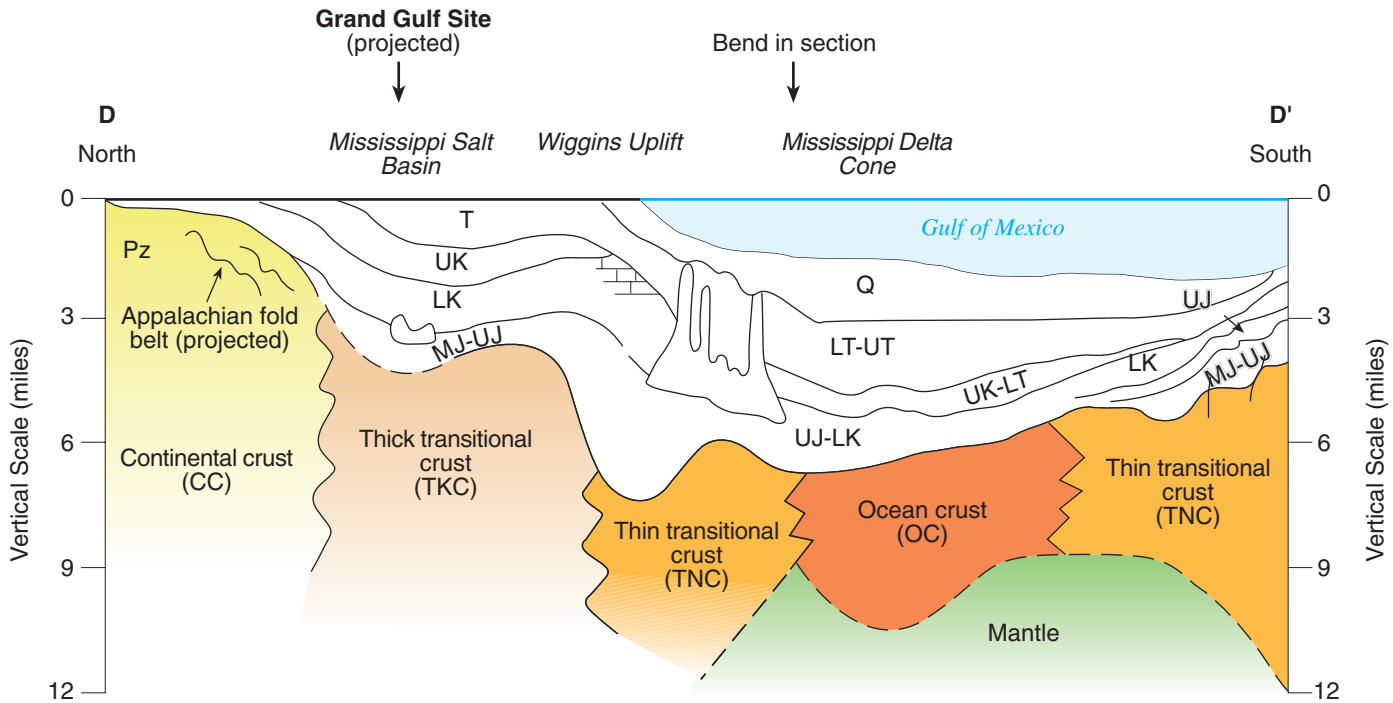
DEPTH TO BASEMENT AND CRUSTAL TYPES, GULF COAST BASIN

FIGURE 2.5-16a REV. 0



Explanation

Q	Quaternary
T	Tertiary
UT	Upper Tertiary
LT	Lower Tertiary
UK	Upper Cretaceous
LK	Lower Cretaceous
UJ	Upper Jurassic
MJ	Middle Jurassic
PZ	Paleozoic

Deformed Middle Jurassic Salt

0 100 200 300 400 500 kilometers

0 100 200 300 miles

Horizontal Scale

Vertical exaggeration=24.5x

Note:
Modified from Sawyer et al., 1991

Depth to basement beneath Grand Gulf Site Location is 5.4 miles (9.0km)

See Figure 2.5-16a for cross-section location

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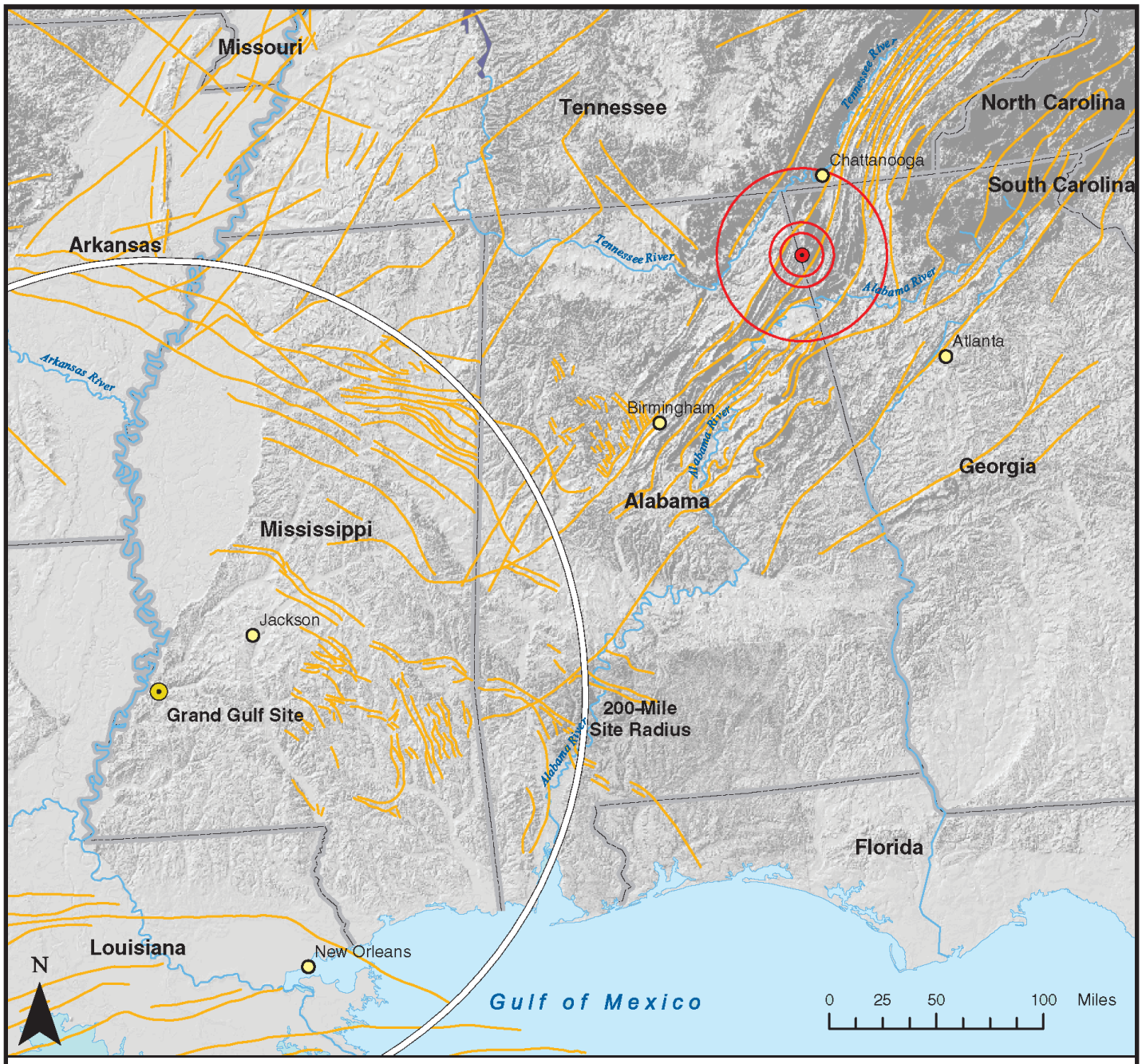
GEOLOGIC SECTION D-D'

FIGURE 2.5-16b REV. 0



Explanation

Faults

Cities

Fort Payne Alabama earthquake, Tuesday April 29, 2003, 08:59:36. Magnitude = Mw = 4.9. Depth = 5 km. Location 34.55N, 85.50W.

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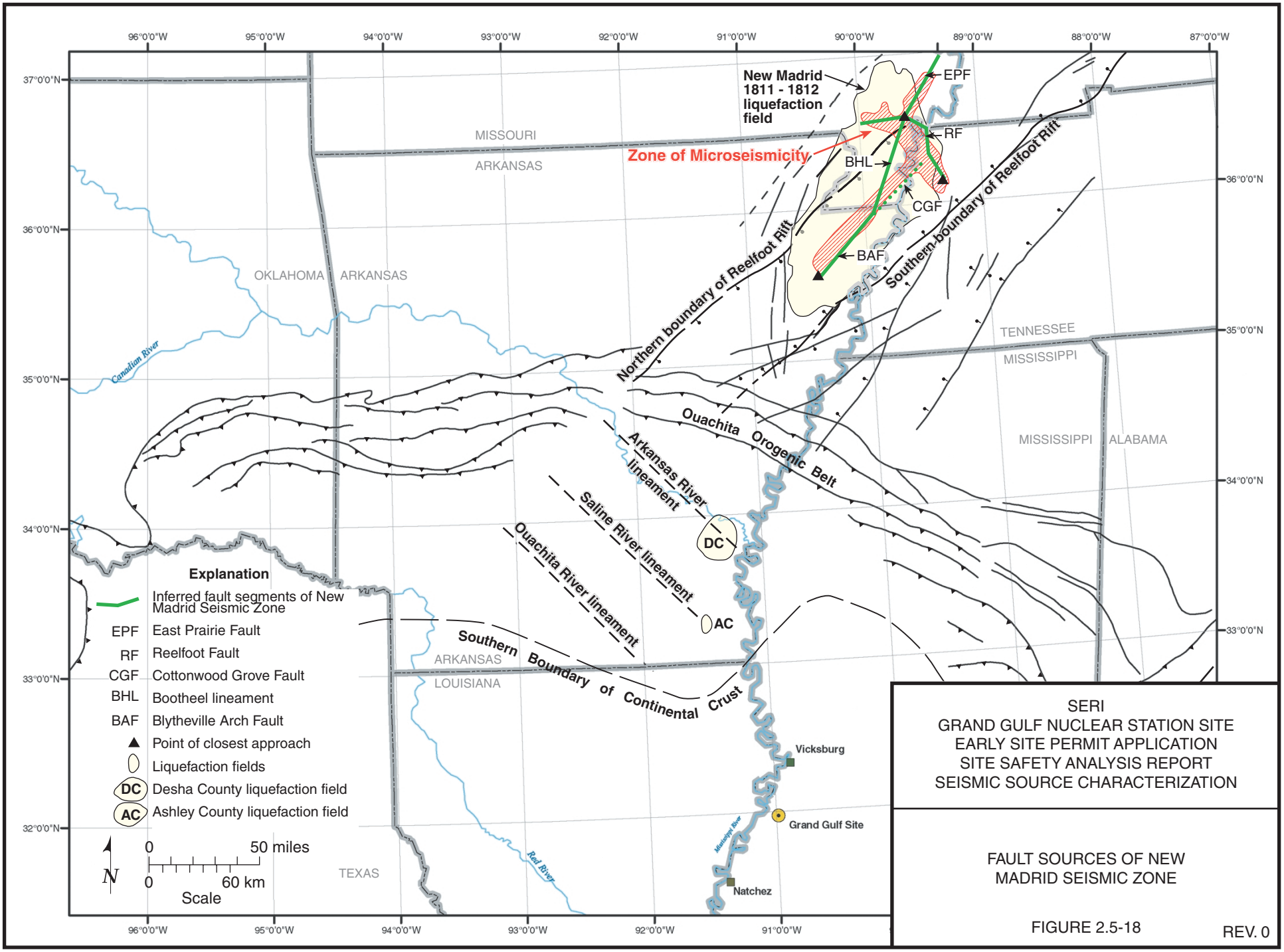
MAP SHOWING LOCATION OF
FORT PAYNE, ALABAMA
EARTHQUAKE, APRIL 29, 2003

FIGURE 2.5-17 REV. 0



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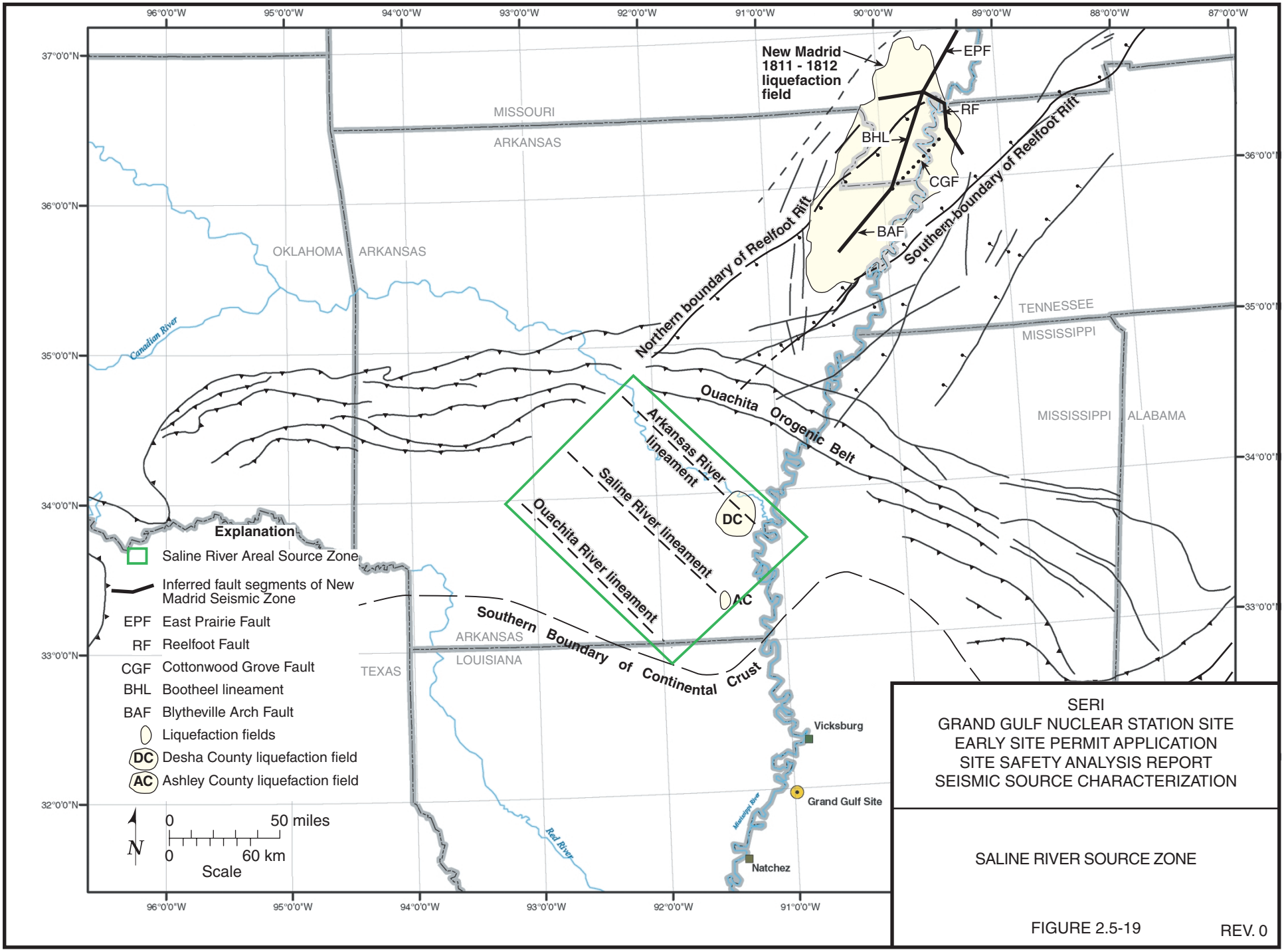
SEISMIC SOURCE CHARACTERIZATION

FAULT SOURCES OF NEW MADRID SEISMIC ZONE

FIGURE 2.5-18

REV. 0

1522d Grand Gulf 10/7/03



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SALINE RIVER SOURCE ZONE

FIGURE 2.5-19

REV. 0

1522d Grand Gulf 10/7/03