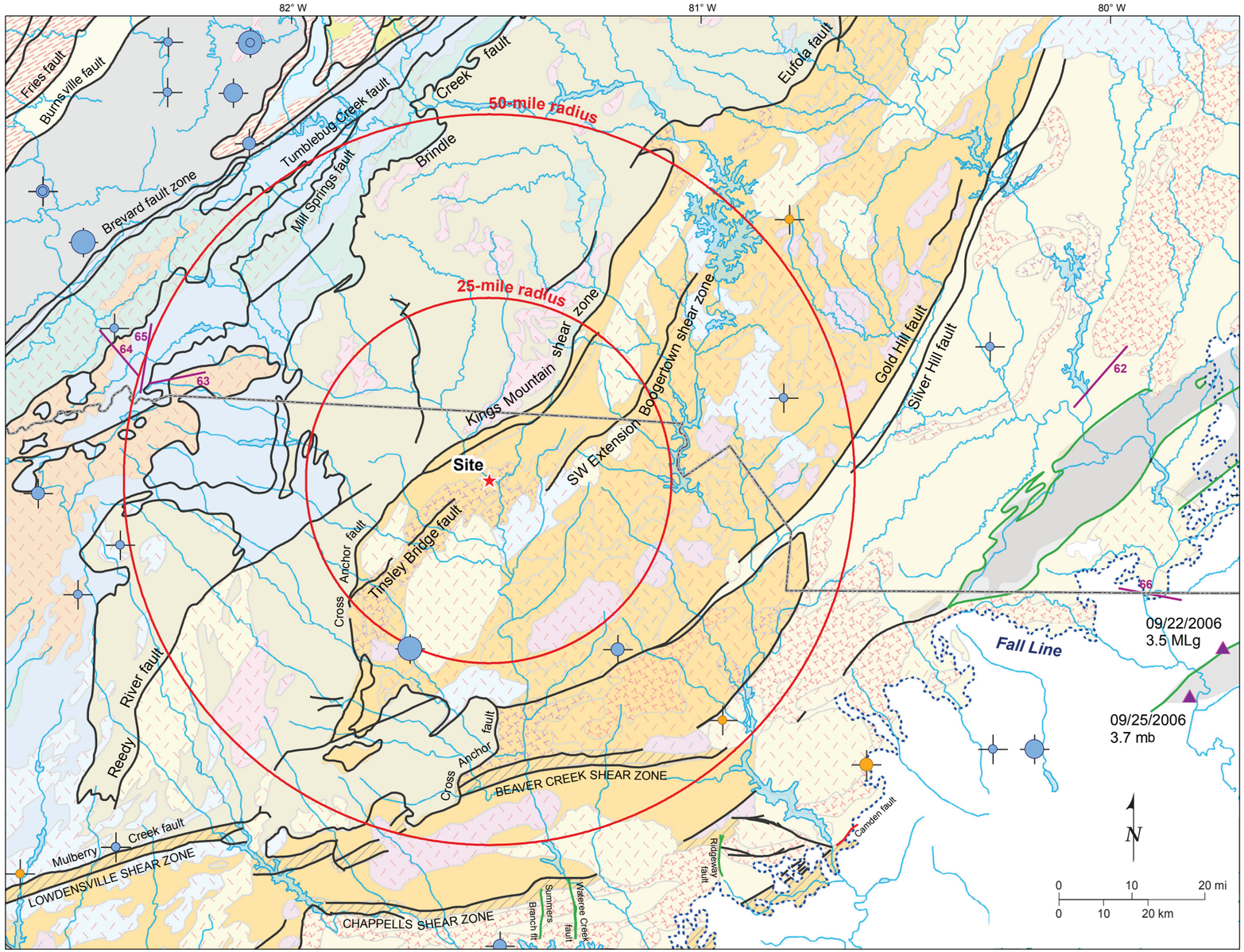

Explanation

Earthquake Epicenters
(by estimated body wave magnitude, Emb)

EPRI Catalog Main Events (1627 - 1984)
- 3.11 - 3.49
- 3.50 - 3.99
- 4.00 - 4.49
- 4.50 - 4.99

Eastern US seismicity (1985 - 2005)
- 3.00 - 3.49
- 3.49 - 3.99

Faults
- Paleozoic
- Cenozoic
- Mesozoic fault
- 66 Cenozoic fault (Prowell, 1983)

Lithotectonic Units (Hibbard et al. 2006)
- Plutonic rocks of unknown origin (felsic)
- Plutonic rocks of unknown origin (mafic)
- Mesozoic rift basins
- Carboniferous to Permian plutonic rocks (felsic)
- Middle Devonian Carboniferous plutonic rocks
- Silurian and Devonian sedimentary and plutonic rocks (felsic)
- Silurian and Devonian sedimentary and plutonic rocks (mafic)
- Middle Ordovician to Lower Silurian plutonic rocks
- Neoproterozoic to Cambrian metavolcanic rocks
  - Intrusive, felsic
  - Volcanic, felsic
  - Intrusive, mafic
  - Volcanic, mafic
- Neoproterozoic to Lower Paleozoic magmatic sequences
  - Intrusive, mafic
  - Volcanic, mafic
  - Volcanic, felsic
- Neoproterozoic to Lower Paleozoic metasediments
- Neoproterozic to Lower Paleozoic metasedimentary rocks
- Lower to Middle Ordovician metamorphic rocks
  - Intrusive, felsic
- Neoproterozoic to Lower Paleozoic clastic metasedimetary rocks
- Lower Paleozoic passive margin sequence
- Proterozoic magmatic and sedimentary rocks
- Proterozoic Grenville basement
  - Orthogneiss

WLS COL 2.5-2

WILLIAM STATES LEE III
NUCLEAR STATION UNITS 1 & 2

Tectonic Features and Seismicity
Within 50 Miles of the Site

FIGURE 2.5.2-202 Rev 0