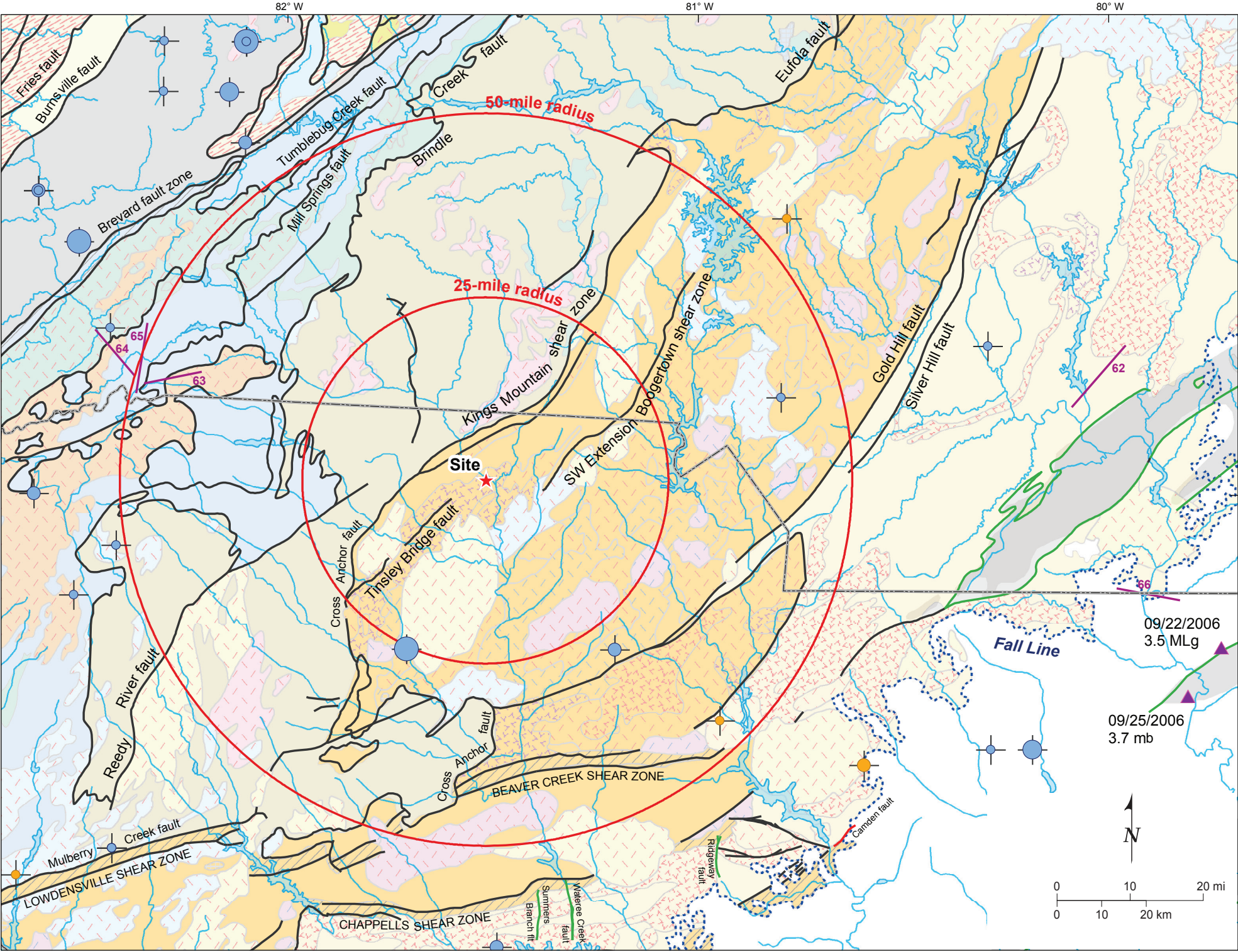




Explanation

Earthquake Epicenters
(by estimated body wave magnitude, Emb)

EPRI Catalog Main Events
(1627 - 1984)

Eastern US seismicity
(1985 - 2005)

3.11 - 3.49

3.50 - 3.99

4.00 - 4.49

4.50 - 4.99

3.00 - 3.49

3.49 - 3.99

Faults

Paleozoic

Cenozoic

Mesozoic fault

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

Intrusive, mafic

Volcanic, felsic

Volcanic, mafic

Neoproterozoic to Lower Paleozoic magmatic sequences

Intrusive, mafic

Volcanic, mafic

Volcanic, felsic

Neoproterozoic to Lower Paleozoic metasediments

Neoproterozoic to Lower Paleozoic metasedimentary rocks

Lower to Middle Ordovician metamorphic rocks

Intrusive, felsic

Neoproterozoic to Lower Paleozoic clastic metasedimentary 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