



**LEGEND**

- HAR Site
- 80-km (50-mi.) Radius from Site
- Independent Seismicity Catalog (1758 - 2006)  
(Source: Geomatrix, 2007)
- Magnitude ( $m_b$ )
- 3.0 - 3.9
- 4.0 - 4.9
- 5.0 - 5.9
- 6.0 - 6.9
- 7.0 - 8.5
- EPRI-SOG (1758 - 1985)
- Post-EPRI-SOG (1985 - 2006)
- Added Historical
- Faults (dashed where inferred, dotted where concealed) (Ebasco, 1975, CP&L, 1983, NCGS, 1985, Wooten et al., 1996, Harding Lawson, 1997, NCGS, 2006, and this study)
- Faults (Schruben et al., 2006)
- Basement Faults (Lawrence and Hoffman, 1993)
- Postulated East Coast Fault System (ECFS) (Marple and Talwani, 2000)
- Cape Fear and Norfolk Arches (Marple and Talwani, 2000)
- State Boundary

Base Map: ESRI (2004)  
 Grid is in WGS84 Coordinate System (degrees)

0 5 10 20 30 40 50  
 Kilometers

0 5 10 20 30  
 Miles

Progress Energy Carolinas  
**Shearon Harris Nuclear Power Plant  
 Units 2 and 3**  
**Part 2, Final Safety Analysis Report**  
 New Hill, North Carolina

Seismicity and Structures within  
 80 km (50 mi.) of the HAR Site

FIGURE 2.5.1-255 Rev. 1