

**LEGEND**

- ★ HAR Site
- City or Town
- Topographic Profile Locations
- Major Drainage (NCCGIA, 2002)
- Paleozoic Faults
- Mesozoic 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)
- Paleozoic Folds (dashed where inferred)
- Mesozoic Folds (dashed where inferred) (NCGS, 2006)
- 49 ● Faults (numbers refer to descriptions in Table 2.5.1-201; from Parker, 1979, and Prowell, 1983)
- █ Postulated Fall Lines (Weems, 1998)  
 CPFL - Central Piedmont Fall Line  
 DFL - Durham Fall Line  
 NFL - Nutbush Fall Line  
 TFL - Tidewater Fall Line
- Postulated East Coast Fault System (ECFS) (Marple and Talwani, 2000)
- Zone of River Anomalies (ZRA) (Marple and Talwani, 1993)
- Axis of Cape Fear Arch (Marple and Talwani, 2000)
- Relict Littoral Scarps (Soller and Mills, 1991)

Geologic Map Units (See Figure 2.5.1-230, Sheet 2 for Unit Descriptions)

Tec	Km	TRcs	PzZu	CZfv	CZmd
Tpy	Jd	PPg	CZam	CZv1	CZph
Tt	TRc	PPmg	CZbg	CZg	CZv
Kb	TRcc	PzZg	CZc	CZfg	CZve
Kc	TRcp	PzZq	CZfg	CZiv	CZmv

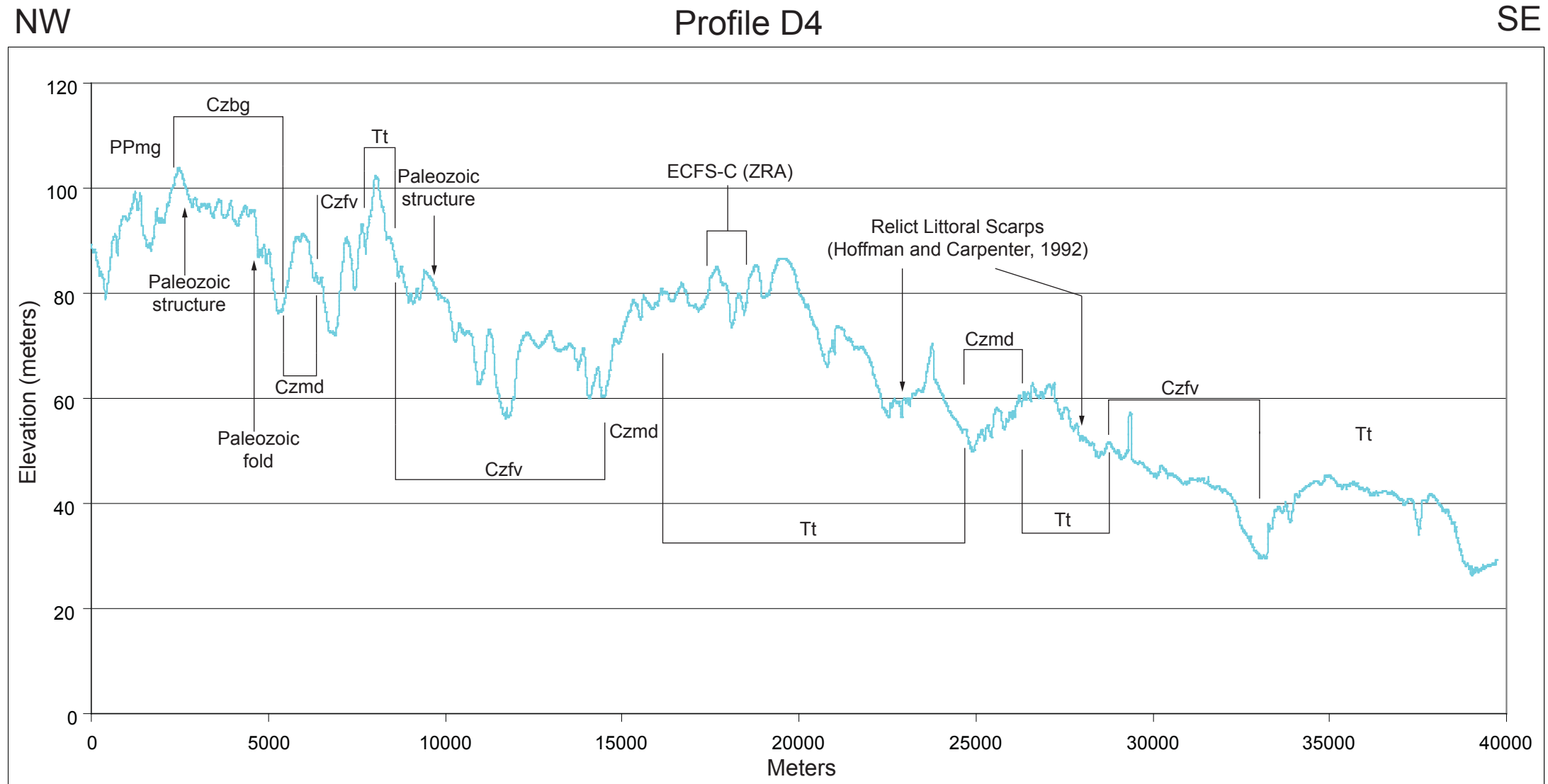
Base Map: Shaded Relief Map from LIDAR (NC DOT, 2005)

0 5 10 20 30  
Kilometers

0 5 10 20  
Miles

Progress Energy Carolinas  
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Topographic Profiles across the ECFS-C  
 FIGURE 2.5.1-252 (SHEET 1 of 2) Rev. 1



**LEGEND**

- ECFS-C - Postulated East Coast Fault System (Central Segment)
- ZRA - Zone of River Anomalies
- Location of Profiles Shown on 2.5.1-252 (Sheet 1 of 2)
- Tt - Terrace deposits and upland sediment
- PPmg - Foliated to massive granitic rock (Pennsylvanian to Permian)
- Czbg - Biotite gneiss and schist (Cambrian)
- Czfv - Felsic metavolcanic rock (Cambrian)
- Czmd - Metamudstone and meta-argillite
- Geologic units from NCGS (1985) (see Figure 2.5.1-230 for explanations of units).

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Topographic Profiles across the ECFS-C  
 FIGURE 2.5.1-252 (SHEET 2 OF 2) Rev. 1