

Physiographic Province	Lithotectonic Element (Hibbard et al. 2006; 2007)		Lithotectonic Element (Hatcher et al. 2007)	
Appalachian Plateau and Valley and Ridge	Laurentian Realm	lapetus drift facies – passive margin sequence overlain by Taconic foreland basin	Laurential Platform and Rifted Margin	Platform rocks and clastic wedges
~~~~~ Great Smoky and Associated faults ~~~~~		Great Smoky and associated faults		Great Smoky and associated faults
		lapetus Rift facies		Rifted Margin rocks
Blue Ridge	~~~ Hollins Line – Pleasant Grove fault system ~~~		~~~~~ Hayesville – Soque River fault ~~~~~	
	Iapetan Realm	Multiply tectonized accretionary complex	Terranes accreted during Taconian Events	
			~~~~~ Chattahoochee - Holland Mountain - Burnsville fault ~~~~~	
Alleghanian events			Tugaloo terrane and Smith River allochthon	
			Brindle Creek fault	
		Cat Square terrane		
	~ Central Piedmont Shear Zone ~~~~~			
	Kings Mountain terrane			
Piedmont	Peri-Gondwanan Realm	Suprastructural magmatic-arc and associated rocks	Central Piedmont Suture	
			Carolina Superterrane	
		Infrastructural magmatic-arc oceanic rocks (includes Kings Mtn.)	Charlotte terrane	
			Continental rift basins and magmatism related to formation of the Atlantic Ocean	
	//////////////////////////////////// Pre - Cretaceous Unconformity - Fall Line //////////////////////////////////////			
Coastal Plain	Coastal Plain		Coastal Plain and subsurface terranes	

WLS COL 2.5-1

WILLIAM STATES LEE III  
NUCLEAR STATION UNITS 1 & 2

Correlations between Physiographic Provinces  
and Recent Lithotectonic Classifications

FIGURE 2.5.1-235 Rev 2