HAR COL 2.5-1



DESCRIPTION OF GEOLOGIC UNITS

Qh	Holocene Deposits - Clay beds in the Holocene sections are typically dark gray to dark green, pearly, and micaceous. Illite-smectite and, to a lesser degree, kaolinite are the major clay minerals. The sands are variable in composition, largely because of the mixing of reworked Coastal	Td	Duplin Form of gravelly s beds are loo and silt and	ation - Near the Orangeburg Scarp, basal beds and are typically 3 to 4.5 m thick. These gravelly ally capped by interbedded, thin, dark gray clay light yellow sand.	
	Plain sediments and much less weathered minerals from the crystalline rocks of the Piedmont.	Kb	Bladen Forn sequences t	nation - Consists of the intercalated sand-clay hat occur between the Donoho Creek Landing	
Qwa	Wando Formation - Sandy deposits that form a single barrier and a very large fluvial system. Barrier facies is restricted to a thin zone along the coast. Sands are high concentration of quartz and feldspar with immature heavy		on the south Fear Valley, clay beds.	on the south and Dawsons Landing on the north. In the Cape Fear Valley, the basal beds consist of thin intercalated sand and clay beds.	
	minerals.	Kth	Tar Heel For	mation - Characterized by rapid facies changes	
Qs	Socastee Formation - Has both marine and nonmarine facies. The marine facies is characterized by ridge-and-swale topography. The ridges are barriers and are closely spaced. The base of the formation consists of reworked shells, fine gravel, coarse sand, and woody pieces. The rest of the formation consists of interbedded sands and clays.		in the Cape thick bedded beds. The sa micaceous.	Fear River valley. These facies include thin to d black clays and thin to thick, light-colored sand ands are massive to cross-bedded and mostly very	
Qph	Penholoway Formation - Backbarrier deposits are interbedded clay, clayey sand, and sand. Barrier sands consist of thinly bedded sand and silty clay. Barrier sands are mainly quartz and about 10 percent feldspar.				
	Waccamaw Formation - A barrier and backbarrier sequence in the coastal				
QW	region. A fluvial sequence is widespread in the valleys of the Cape Fear and Lumber Rivers. The fluvial facies are mostly sand and some gravel exposed in terraces with some surfaces containing large surface depressions, Carolina bays.	Source: Owens (1989)			
				Progress Energy Carolinas	
				Shearon Harris Nuclear Power Plant	
Tb	Bear Bluff Formation - The marine (shelf) facies that typically consists of a basal shelly horizon, locally occuring in deep trenches. The barrier facies is very thin, laminated beds, burrowed tidal-flat deposits that overlie cross-bedded sands. The fluvial facies has abundant Carolina bays, with a thick clay-silt cap overlying a gravel unit.			Units 2 and 3 Port 2 Final Sofety Analysis Penert	
				New Hill, North Carolina	
				Map Showing Topographic Profiles	
				(Sets A and B) across the ECFS-C and	
				Geology near the Cape Fear River	
				FIGURE 2.5.1-256 (SHEET 2 OF 2) Rev. 1	