

Bellefonte Nuclear Plant, Units 3 & 4  
COL Application  
Part 2, FSAR

**Explanation**

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| <p>———— Geologic contact</p> <p>▲▲▲▲▲ Thrust or reverse fault; sawteeth on upper plate, dashed where inferred, dotted where concealed</p> <p>U<br/>D ——— Normal fault; U on upthrown side, D on downthrown side, dashed where inferred</p> <p>———— Fault for which sense of movement is unknown; dashed where inferred</p> | <p>————&gt; Fault; arrows show relative directional movement</p> <p>—?—?—? Nature of contact uncertain (may possibly be a fault or a stratigraphic contact)</p> <p>C ——— C' Line of cross section</p> |
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	QUATERNARY	APPALACHIAN PLATEAUS PROVINCE	VALLEY AND RIDGE PROVINCE
	<p><b>HOLOCENE</b></p> <p>Qalt Alluvial and low terrace deposits</p>		
	<p><b>PLEISTOCENE</b></p> <p>Qt High terrace deposits</p>		
	<p>INTERIOR LOW PLATEAUS PROVINCE</p>	<p>APPALACHIAN PLATEAUS PROVINCE</p>	<p>VALLEY AND RIDGE PROVINCE (western part) (eastern part)</p>
PENNSYLVANIAN		<p>Ppv Pottsville Formation</p> <p>Ppv1<sub>u</sub> Pottsville Formation (upper part)</p> <p>Ppv1<sub>l</sub> Pottsville Formation (lower part)</p>	<p>Ppv2<sub>u</sub> Pottsville Formation (upper part)</p> <p>Ppv2<sub>l</sub> Pottsville Formation (lower part)</p>
MISSISSIPPIAN	<p>Mp Pennington Formation</p>	<p>Pmpwp Parkwood and Pennington Formations (undifferentiated)</p>	<p>PMpw Parkwood Formation</p> <p>Pmpwp Parkwood and Pennington Formations (undifferentiated)</p> <p>Mbm Bangor and Monteagle Limestones (undiff.)</p> <p>Pzu Paleozoic Shale (undifferentiated)</p> <p>Mf Floyd Shale</p>
			<p>Pzu Parkwood Formation and Floyd Shale (undifferentiated)</p> <p>Pzu Paleozoic Shale (undifferentiated)</p> <p>Mf Floyd Shale</p>
	<p>Mh Hartselle Sandstone</p> <p>Mm Monteagle Limestone</p>		<p>Mh Hartselle Sandstone</p> <p>Mm Monteagle Limestone</p>
		<p>Mpm Pride Mountain Formation</p>	<p>Mpm Pride Mountain Formation</p>
	<p>Mt Tuscumbria Limestone</p> <p>Mfp Fort Payne Chert</p>	<p>Mt Tuscumbria Limestone and Fort Payne Chert (undifferentiated)</p>	<p>Mtfp Tuscumbria Limestone and Fort Payne Chert (undifferentiated)</p> <p>Mtfp Tuscumbria Limestone and Fort Payne Chert (undifferentiated)</p>
DEVONIAN	<p>Dc Chattanooga Shale</p>		<p>Dc Chattanooga Shale</p> <p>Dcm Chattanooga Shale and Frog Mountain Sandstone (undiff.)</p> <p>Dfm Frog Mountain Sandstone</p>
SILURIAN	<p>Su Silurian System (undifferentiated)</p>	<p>Srm Red Mountain Formation</p>	<p>Srm Red Mountain Formation</p> <p>Srm Red Mountain Formation</p>
ORDOVICIAN	<p>Os Sequatchie Formation</p>	<p>Os Sequatchie Formation</p> <p>Olp Leipers Limestone</p> <p>Oi Inman Formation</p> <p>Oc Chickamauga Limestone</p> <p>Oca Attalla Chert Conglomerate Member of the Chickamauga Limestone</p> <p>Ong Nashville Group</p> <p>Onsvr Nashville and Stones River Group (undifferentiated)</p> <p>Osr Stone River Group (undifferentiated)</p>	<p>Os Sequatchie Formation</p> <p>Oscmg Sequatchie Formation, Colvin Mountain Sandstone, Greensport Formation (undifferentiated)</p> <p>Oc Chickamauga Limestone</p> <p>Oca Attalla Chert Conglomerate Member of the Chickamauga Limestone</p>
		<p>OEk Knox Group (undifferentiated in part)</p> <p>OEcCr Chepultepec and Copper Ridge Dolomites (undifferentiated)</p>	<p>Ocm Colvin Mountain Sandstone</p> <p>Og Greensport Formation</p> <p>Oa Athens Shale</p> <p>Oal Athens Shale and Lenoir Limestone (undifferentiated)</p> <p>OloI Little Oak and Lenoir Limestones (undifferentiated)</p> <p>Olo Little Oak Limestone</p> <p>Olon Little Oak and Newala Limestones</p> <p>On Newala Limestone</p> <p>Onlv Newala and Longview Limestone (undifferentiated)</p> <p>Ov Longview Limestone (undiff.)</p> <p>OEcCr Chepultepec and Copper Ridge Dolomites (undifferentiated)</p>
		<p>Ek Ketona Dolomite</p> <p>Ec Conasauga Formation</p>	<p>Ek Ketona Dolomite</p> <p>Ec Conasauga Formation</p> <p>Ec/EcI Conasauga Formation</p>
CAMBRIAN			<p>Er Rome Formation</p> <p>Es Shady Dolomite</p> <p>Ech Chilhowee Group (undifferentiated)</p> <p>Ewwr Weisner and Wilson Ridge</p> <p>En Nichols Formation</p> <p>Ecn Cochran Formation</p>

(Reference 224)