




EXPLANATION

- SYMBOLS**
- Buried Fault
 - - - - - Inferred From Gravity And Magnetic Data
 - Hypothetical Buried Fault Taken From Tectonic Map Of Western United States.
 - Buried fault taken from Tectonic map of Western United States.
 - Lithologic Contact
 - - - - - Fault
 - Dashed where approximately located. Dotted where concealed.
 - A-----A' Geologic Section Location
 - ||||| Dike

- QUATERNARY**
- Qal** ALLUVIUM
Modern floodplain deposits of silt, sand, and gravel.
 - Qsu** SLOPE DEPOSITS, UNDIVIDED
Unit includes coalescing alluvial fans, floodplains.
 - Qbf** BASIN FILL DEPOSITS
Predominantly silt and sand at surface with shallow soil caliche
 - QTrf** FAN DEPOSITS, DIFFERENTIATED
Characterized by basalt and andesite boulders within a fine matrix. Moderately calichified cap often characteristic of this unit.
 - QAr** LATE TERTIARY TO QUATERNARY BASALT FLOWS
Arlington (1.24-3.19 m.y.), Gillespie (1.3-4.2 m.y.) and Gila Bend (2.2-6.4 m.y.) basalt flows. (K-AR Dating).
 - QTrf** BASIN FILL
Undifferentiated silt and sand containing clayey and slightly gravelly intervals, moderately stratified. Tentatively assigned Quaternary-Tertiary age based on age dates from overlying Arlington basalt flow.
 - QTrn** QUATERNARY-TERTIARY FAN DEPOSITS
Gravel in a silt and clay matrix, poorly sorted, moderately stratified. Gravel includes clasts primarily of volcanic and metamorphic material with a minor amount of granitic debris.
- TERTIARY-QUATERNARY**
- TT** FAN DEPOSITS, DIFFERENTIATED
Similar to QTrf but demonstrably older.
 - Tvfn** VOLCANIC FAN
Volcanic gravels, predominantly andesitic, in a silt and sand matrix. Fans locally derived from Tertiary volcanics within the Palo Verde area. Local interbedded basalt.
 - Tvba** BASALTIC ANDESITE VOLCANIC INTRUSIVES
 - Tvu** ANDESITE UNDIFFERENTIATED VOLCANIC ROCK
Extrusive and intrusive, blue-gray and reddish, with local tuffaceous sedimentary interbeds. Includes basalt and andesite in Palo Verde Hills (17.7-20.3 m.y.).
- TERTIARY**
- Ts** SEDIMENTS AND VOLCANICS
Sediments predominantly well indurated tuffaceous and arkosic sandstone; volcanics predominantly blue-gray andesite undifferentiated.
 - Ts** SEDIMENTS
Well-indurated tuffaceous and arkosic sandstone, and conglomerate cross-bedded. Locally contains granitic and gneissic cobbles.
- PRECAMBRIAN**
- pCgr** GRANITE AND QUARTZ MONZANITE
Including aplite, alkali, and quartz veins.
 - pCgn** GRANITE AND HORNFELSIC ROCKS
Foliated, locally included with pegmatitic veins. Includes some areas of undivided schist and granite.
 - pCnd** META-DIORITE, INTRUSIVE
 - pCgs** GREENSCHIST FACIES METAMORPHICS
Amphibole, phyllite, slate, mica schist, quartzite and hornfels derived from shale, sandstone, and rhyolite to basaltic flows and tuff.


Arizona Nuclear Power Project
Palo Verde Nuclear Generating Station
Units 1, 2 & 3

GEOLOGIC MAP OF THE SITE VICINITY
 Figure 2.5-7