

2.0 SITE AND ENVIRONMENT

2.1. GENERAL DESCRIPTION

This section presents data on the site and environs for the Calvert Cliffs Nuclear Power Plant (CCNPP). These data were used to establish a basis for the selection of design standards for the plant and to determine the adequacy of concepts for controlling routine and accidental release of radioactive effluents to the environment. A series of studies (population and land use, meteorology, geology, hydrology, and seismology) has been conducted.

The site is located in Calvert County, MD, approximately 10-1/2 miles southeast of Prince Frederick, MD, and on the west bank of the Chesapeake Bay.

Cooling water for the plant is drawn from and returned to the Chesapeake Bay.

The exclusion area around the plant has a minimum radius of 1150 meters. The distance to the nearest permanent residence is approximately one mile. A summer camp presently included in the plant site was abandoned in December 1971. The closest major metropolitan area is Washington, DC, approximately 45 miles to the northwest.

The structures are founded on Miocene sediments of the Coastal Plain Physiographic province. The foundation materials presented no special problems in design or construction. Foundations have been designed in accordance with the considerations discussed in the report on subsurface conditions and foundations, Section 2.7.