

TITLE AND LOCATION NPP COOLING WATER TUNNELS EASTERN CAPE PROVINCE, SOUTH AFRICA		YEAR COMPLETED PROFESSIONAL SERVICES 2011 – Present
PROJECT OWNER'S INFORMATION		
PROJECT OWNER ESKOM	POINT OF CONTACT NAME Derek Lee	POINT OF CONTACT TELEPHONE NUMBER 27 (0)12 641 1000

RIZZO Associates is working in collaboration with Nuclear Structural Engineering, Pty. (NSE) to provide specialized services for heavy industrial and nuclear related projects.

RIZZO developed the Conceptual Design for cooling water tunnels at a nuclear power plant (NPP) site in South Africa. These approximately 6.5 m diameter tunnels will extend offshore from Eastern Cape Province with a majority of the excavation occurring below the Indian Ocean seabed. The Conceptual Design provides consideration to the geology at the site; the location at which the Tunnel will interface with the NPP; the location of the Intake in relation to the offshore geology; the water temperature at the Intake location; construction means and methods; and construction limitations specified in the Environmental Impact Assessment (EIA). As part of the Conceptual Design, RIZZO also performed the hydraulic design of the tunnel, the design of the structural support system for the tunnel, and the design of the intake structure.

