

## Military



The Landing Platform Dock 17, San Antonio class, is the latest class of amphibious force ship for the United States Navy. The mission of the San Antonio class is to transport the US Marine Corps' Advanced Amphibious Assault Vehicles (AAAVs), air-cushioned landing craft (LCAC) and the MV-22 Osprey tiltrotor aircraft.

The ship's main propulsion is delivered by four Colt-Pielstick 2.5 STC diesel engines developing 10,400hp each. Five 2,500kW Caterpillar Ship Service Diesel Generators (SSDG), deliver the ship's electrical power. Each Caterpillar engine is fitted with a Hotstart Coolant Heater and Prelube Unit. The Hotstart package ensures that each engine is kept warm and ready to start and deliver full power immediately upon start. The electric prelube unit is mirrored by a backup air driven system in case of power failure. Through a programmed cycle of prelubing, the engine's lube oil is kept warm and at the right viscosity. Each coolant heater delivers 18kW at 3phase 440V 60Hz. All components are tested to MIL-STD-901C and designed to withstand shock loads which may be incurred due to the effects of nuclear or conventional weapons.

### TECHNICAL INFORMATION

Propulsion Engine	4 x Colt-Pielstick 2.5 STC
Auxiliary Power	5 x Caterpillar 2500kW 3600 series (SSDG)
Heater	5 x Coolant Heater CL 3phase 18kW 60Hz
	5 x Lube Oil Prelube System