

# First Vertical Structural Composite Pump to Pass Shock and Vibration Tests for the U.S. Navy

On July 15, 2009; the first **SIMSITE®** Vertical Pump passed shock MIL-S- 901D and vibration MIL-STD-167-1 tests for the US Navy. The tests were performed at the NU Labs in Annandale, N.J.

SIMS has over 12 other sizes of **SIMSITE®** horizontal pumps shock & vibration qualified with the US Navy. The Pumps range from 3 H.P. to 150 H.P. The German Navy is also using SIMS Fire Pumps (125 H.P.) manufactured from **SIMSITE®** Structural Composite.

The **SIMSITE®** Vertical Pump seen below is a Fire Pump for Mine Sweeper vessels in the US Navy.



**SIMSITE®** is structural graphite composite that NEVER corrodes in salt water! It outlasts and outperforms any metallic pump. **SIMSITE®** pumps are not cast or molded; they are entirely machined from solid blocks of structural composite.

The US Navy Shock Test is a very severe test that consists of nine (9) different blows in three different planes. There are three (3) blows in each inclination plane. On the shock test stand the **SIMSITE®** pump is experiencing acceleration between 200 to 300 G's. The pump must continue to operate and maintain designed pressure and performance. The pump cannot crack, break, leak, or drip and nothing can fly off or be removed from the pump.