



NLB ULTRA-CLEAN 36[®] System Removes Paint From Naval Vessel

An NLB 36200D ultra-high pressure water jet pump producing 36,000 psi and 6 gpm flow (2,500 bar and 23 lpm) was used to remove the paint from a Mexican naval vessel at the Tampico Shipyard. The work was done using NLB's NCG8400A ultra-high pressure rotating jetting lance and Bi Mode™ valve system.

The project involved removing a base coat and top coat to produce a NACE No. 5/SSPC-SP12 WJ-1 white metal finish prior to recoating. The removal was accomplished at a rate of 90 sq. feet (8.4 sq. m) per hour, using the hand lance approach. The previously used method of paint

removal at this yard was sandblasting, but this method has been banned because of health and environmental concerns about airborne contaminants.

The ultra-high pressure water jetted surface also has the advantage of being completely free of entrapped microscopic rust, chlorides and grit particles, which occur in a sandblasted surface. These entrapped contaminants can result in early coating failure. The Navy's painting contractor pronounced the NLB ULTRA-CLEAN 36[®]-prepared surface "very satisfactory" for coating application.



The Republic of Mexico ship C-55 in drydock, prior to repainting.

An NLB 8400A Rotating Lance was used to remove 30 mils of paint at a rate of 90 sq. feet (8.4 sq. m) per hour.

The resulting surface was completely free of paint and corrosion, even at the bottom and edges of deep pits.



The Leader in High-Pressure Water Jet Technology