

# WESTERN MARITIME, INC.

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## Innovative Office of Naval Research vessel takes to the water at the Ketchikan Shipyard

Ketchikan, AK, April 14, 2010:

Today at 9:30 AM Alaska Ship & Drydock, Inc. (ASD) transferred the Office of Naval Research (ONR) Demonstrator vessel M/V Susitna to a pier side berth in the Tongass Narrows at the Ketchikan Shipyard. In August of 2005 ONR awarded ASD a contract for detail design and construction of an Advanced Technology Demonstrator vessel then known as the Expeditionary Warfare Craft or E-Craft. The vessel was later renamed M/V Susitna by Senator Lisa Murkowski at a Keel Laying ceremony at the Ketchikan Shipyard in August of 2006.

The E-Craft concept, based on a Lockheed Martin patented design, has two modes. In one mode the ship possesses the seakeeping, speed, and handling characteristics of a Small Waterplane Area Twin Hull (SWATH) ship. In the second mode, by lowering the main cargo deck to the water, the ship is transformed to its shallow draft mode with capability of beaching operations of a large landing craft. The regulatory and detailed design was developed by Guido Perla and Associates to satisfy the requirements of ABS and Coast Guard. The design has consolidated the characteristics of a high speed, multi-purpose, cargo and troop transport ship that will perform efficiently in ice, in shallow waters and in high sea states. This unique, one of a kind ship offers operational flexibility and logistic delivery efficiencies far beyond current marine capabilities within one hull structure with unique hull, mechanical and electrical components.

ASD developed several innovative ship production processes to meet rigorous quality standards in constructing Susitna. To form the variety of double curved hull panels, ASD designed and constructed an innovative hydraulic platen table that pressed the shape into the assembly followed by semi-automated welding of stiffeners with minimal distortion. A very large weld positioner was employed by ASD to speed assembly of the modules, enhance production ergonomics, and maintain exacting dimensional standards. Susitna's innovative design fostered innovations in advanced manufacturing unique to Ketchikan and useful in future shipbuilding programs.

M/V Susitna will go to a pierside berth at the Ketchikan Shipyard for final outfitting and testing. Prior to the vessel's June 2010 delivery to Matanuska /Susitna Borough (MSB), the vessel will undergo extensive sea trials in the waters around Ketchikan. In the long run, MSB will operate the vessel in the upper Cook Inlet where Susitna will be the world's first twin-hulled ice capable vessel. It is to operate in the vicinity of Anchorage, AK, serving primarily as a ferry that is capable of transporting 20 cars and 130 passenger's year around, Susitna can break first year sea ice up to two feet thick and also serve



as an emergency rescue platform. Susitna will demonstrate the unique advanced applications and leading edge technologies that have been incorporated into her design. MSB will gather operational and performance data to evaluate the operational utility of the design.

Susitna is designed for year-round operations in one of Alaska's most imposing bodies of water – the Upper Cook Inlet. Designed for winter sea ice conditions, ASD sees other missions within Susitna's capabilities including support of Arctic marine and ocean research, aids to navigation, and off shore oil, gas, and mining operations.



### M/V Susitna/E-Craft Characteristics

Length Overall	105.33 Meter
Beam	60 Feet
Design Draft	
Barge Mode	4.5 Feet
SWATH Mode	12 Feet
Design Displacement	80 Long Tons
Passengers	130
Cars	20
Cruise Speed Full Load (Sustained)	17 Knots
Max Speed	20 Knots
Engines	4 ea. at 10,340 Brake HP (BHP)
Water Jet Propulsion	4 ea. at 31.9 Inches
Thrusters	1800 Horse Power
Lightship	923 Long Tons
Design Displacement (SWATH)	983 Long Tons



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# WEST COAST & SHIPYARD NEWS

NORTH AMERICA - WEST COAST



## Lee Shore Boats Under New Management

Eric Schneider, a marine boilermaker/welder by trade took over ownership of Lee Shore Boats last fall. Lee Shore has been manufacturing heavy duty custom aluminum boats for 29 years. They will continue to supply commercial fishermen and companies in the shellfish industry with the tools necessary for their success. Lee Shore recently delivered the 2nd of three 30' bow loaders to NRCS of California, which are being used as fast, spill response vessels. They also recently completed a 24' Swiftsure for Seattle Shellfish for use in their geoduck cultivation business.



You can learn more about Lee Shore Boats and see some of the other vessels they have built at [www.leeshoreboats.com](http://www.leeshoreboats.com).



**Lee Shore Boats, Inc.**  
Custom Aluminum Boats

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## NEW PRODUCT



## RCI Technologies Now Offers Magnetic Fuel Decontamination Units

### Bio-Mag Breaks Down Bacteria in Fuel

SAN DIMAS, Calif. - April 26, 2010 - California-based fuel purifier manufacturer RCI Technologies introduces its Bio-Mag™ line of magnetic fuel decontamination units.

The Bio-Mag is an in-line magnetic device designed to treat microbiological contamination in fuel systems and control further growth, reducing the need for biocides and other chemicals.

The device uses a magnetic field to break down bacteria so that it can pass through the conventional filtration system to be consumed in the engine combustion cycle. This, in turn, inhibits any further microbial growth, thus depleting the level of contamination in the storage tank.

RCI offers the Bio-Mag in a variety of sizes and specifications, depending on the application. Applications include automotive, truck, tractor, marine, bulk storage and other uses where bacterial contamination in fuel is a concern.

The Bio-Mag is suitable for use with RCI's fuel purifiers and is a standard component in RCI's FRS 660 Automatic Fuel Recirculating Systems™.

For more information, call (800) 868-2088 or visit [www.rcitechnologies.com](http://www.rcitechnologies.com).

### About RCI Technologies

RCI Technologies, founded in 1994, offers a complete line of diesel fuel purification products, which include the Universal Fuel Purifier™, the Portable Tank Cleaning Unit™ and the FRS 660 Automatic Fuel Recirculating System™. RCI's products are used by the marine, trucking, bus, railroad, service station, construction and agricultural industries, as well as government agencies.

RCI's fuel purifiers, which bear Green Clean Institute certification, utilize RCI's patented fuel purification technology, using no filters or moving parts. By removing 99.9 percent of water and up to 98 percent of dust, dirt and other natural contaminants found in all diesel fuel, RCI's products promote optimum fuel system efficiency and fuel economy, reduce engine down time and extend engine life.

For more information on RCI's products, visit [www.rcitechnologies.com](http://www.rcitechnologies.com) or call (800) 868-2088.

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## NEWS BULLETIN

Port of Seattle

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