

Shipbuilder **Patti Marine Enterprises Inc.** of Pensacola, FL recently delivered the river push boat *M/V Stephenson II*, to the U.S. Army Corps of Engineers for use in Gasconade, Mo., in the Corps' Kansas City district.

Seattle-based Jensen Maritime Consultants, Inc., performed the functional design and production lofting of the ABS classed, 58-foot, 770-horsepower boat. Patti Marine hired Jensen to take the Corps' design for a smaller and narrower boat and create the functional design and production lofting.

The image on this page is a composite of the push boat, combining the production lofting drawings supplied by Jensen Maritime and the finished product built by the shipyard.

Lofting essentially involves taking a vessel design and creating a building kit for the shipyard, including assembly drawings and directions for the cutting machines. This process helps optimize building productivity and quality. Jensen worked closely with Patti Marine to ensure the vessel was successfully delivered on time.

"We appreciate the opportunity to be of service to Patti Marine and the Corps of Engineers," said Jensen Vice President Jonathan Parrott. "We are confident the boat will have a long and productive service life."



For more information: Patti Marine Enterprises, Inc. • 306 South Pinewood Lane • Pensacola, FL 32507 • (850) 453-1282 • ashley@pattimarine.com



M/V Stephenson II will provide operational support for the district's operations and maintenance mission on the lower Missouri River as well as for general construction and mitigation projects.

As a day boat and support vessel, the vessel has no accommodations and no provisions for fresh water, although it does come equipped with an Incolet brand of head as a small crew comfort. Noise and vibration reduction of the exhaust system was very important to the Corps, which wanted no more than 20 percent transmissibility. Jensen designed the system to use cable-mounted silencer isolators and pipe hangars, which greatly reduced the amount of noise and vibration transferred to the crew areas.

Jensen Maritime is a Naval Architecture and Marine Engineering firm owned by Crowley Maritime Corporation. The company offers a diverse range of consulting, design and engineering services developed from nearly 50 years experience working around the world.





M/V "STEPHENSON II" - Hull 737

Construction and Equipment Details

	Builder:	Patti Marine Enterprises, Inc.
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	Ph:	(850) 453-1282
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	e-mail:	ashley@pattimarine.com
	Designer:	U.S. Army Corps of Engineers – Marine Design Center
Attn:		Tim Keyser, Naval Architect
		Wanamaker Building, 100 Penn Square East Philadelphia, PA 19107-3391
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		Jensen Maritime Consultants, Inc.
	Attn:	Jonathan Parrott, President
		200 West Mercer, Suite 501
	DL	Seattle, WA 98119
	Ph:	(206) 284-1274
Fax:		(206) 284-2556
e-mail:		JParrott@jensenmaritime.com
Owners:		U.S. Army Corps of Engineers – Kansas City District
	Mission:	Inland River Towboat
	Length:	58'-0"
Beam:		22'-0"
Depth:		7'-0" (@ Midship)
Draft:		4'-6" (Full Load)
Main Engine:		(2) CAT C12B, 385 HP @ 1,800 RPM diesel engines
Gears:		(2) Twin Disc MG-516, 4.0:1 ratio
	Props:	(2) Rolls Royce, 48" diameter, (5)-blade, Next Generation Work Wheels, CF-3 stainless steel
	Controls:	ZF Mathers
	Gen-sets:	(1) CAT C4.4, 44kW @ 1,800 RPM
Hydraulic Steering:		Sentinel Control Technologies
	Crane:	None
	Barge Winches:	(2) Wintech mdl. 311-RC, 5 HP, 40-ton
	Capstans:	None
Н	ull Construction:	Steel
	Crew Quarters:	None; day boat
	Capacities:	Fuel Oil = $1,275$ gal.
		Hyd Oil = None
		Lube Oil = 152 gal.
		Gear Oil = None
		Waste Oil = 152 gal.
		Oily Water = None
		Potable Wtr = None
		Sewage = None
	Electronics:	E & R Marine Electronics (Furuno)
	Class:	ABS Class A1 Towing Service AMS Machinery USCG,
	·····	Subchapter-C Uninspected Towing Vessel
	Tonnage:	n/a

Completion Dates: June 2010

Homeport: Gasconade, MO