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FOR IMMEDIATE RELEASE:

Alan C. McClure Completes CFD Propeller Flow Simulations

HOUSTON, Texas – July 10, 2012:

Alan C. McClure Associates (ACMA), one of the industry's premier naval architecture and engineering firms, announced today that the company has successfully completed several Computational Fluid Dynamics (CFD) simulations of propeller flow for a vessel owner/operator, continuing its tradition of delivering cutting-edge engineering design and analysis.

According to ACMA Vice President Darrel Harvey, "Traditional model testing for propellers has usually relied on scale models, and frequently neglects the effects of flow about the vessel hull prior to encountering the propeller. Full-scale testing is often impractical and introduces additional environmental variables to the test data."

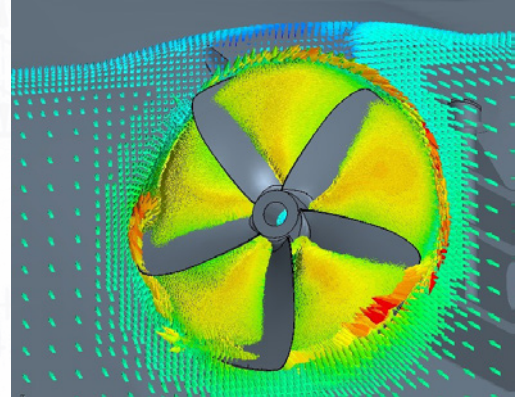
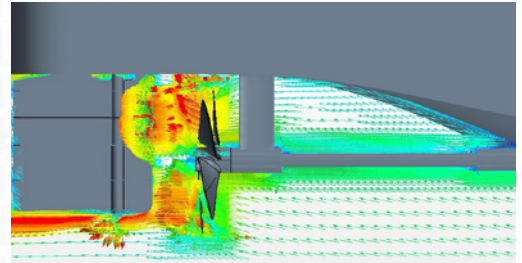
"On the other hand," noted Harvey, "CFD allows for full-scale simulations of not only a rotating propeller, but also of flow around a hull form, rudders and associated structural elements. This type of simulation captures effects of hull form on the uniformity of flow in three dimensions, identifying differences in flow velocity entering the propeller from top to bottom and side to side. In this particular case, our simulations verified what the vessel had been experiencing during operations."

ACMA President Scott McClure commented, "A detailed CFD analysis including a rotating propeller can capture the dynamic effects of impulse loading on the hull as well as the interaction of flow with steering equipment. ACMA has also performed simplified propeller flow analyses by simulating the propeller as a momentum source, governed by performance curves."

"Bottom line, this advanced analysis can save owner/operators a considerable amount of time and money by identifying potential problems prior to construction," added McClure.

About Alan C. McClure Associates, Inc.

Headquartered in Houston, Texas, Alan C. McClure Associates, Inc. (www.acma-inc.com) is one of the industry's premier naval architecture and engineering firms, and has been providing a wide variety of design and engineering services to an international clientele for more than 35 years. Projects include drilling rigs, floating production systems and support craft for the offshore petroleum industry. Our array of services also includes project management, legal/arbitration consulting, surveying and negotiations. The ACMA staff and services represent the engineering disciplines necessary to successfully complete projects in naval architecture, marine engineering, electrical engineering, mechanical engineering and engineering mechanics.



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