MSC Software Supports the Largest Tidal Turbine in the World Designed by Scotrenewables Tidal Power Ltd

**MSC Software helps to refine the design of a tidal turbine blade and shorten development time**

NEWPORT BEACH, CA. – Business Wire - (May 27, 2014) – MSC Software Corporation, a global leader in helping product manufacturers to advance their engineering methods with simulation software and services, today announced that Scotrenewables Tidal Power Ltd (SRTP) based in The Orkney Islands, has used MSC Nastran and Patran with Laminate Modeler to design and analyze the rotor blade of the largest tidal turbine in the world today.

Founded in 2002, Scotrenewables Tidal Power Ltd (SRTP) is committed to delivering cost effective renewable power to satisfy current and future energy requirements worldwide with the design and production of floating tidal stream and run-of-river-turbines. With their latest innovation, the SR250 converter, the company created an award-winning patented hydrokinetic energy converter, designed to convert energy from tidal streams and river currents where they are strongest but also closest to the surface.

The next step into the future is the design and development of a larger turbine more suited for tidal array deployment. The next generation turbine - the SR2000 - will reach a rated power of 2MW at 3m/s making it one of the most powerful tidal turbines in the world. MSC Software will support the design and analysis of the tidal turbine rotor blades structure which will be one of the largest to date, and will be built to survive a 20-year design life. MSC Nastran/Patran and Laminate Modeler are already helping SRTP to model the blade structure and optimize the blade design.

“Patran with Laminate Modeler provides a very easy to use and powerful tool enabling us to produce a more optimum blade design,” said Jonny Meason, Chief Technical Officer & Finlay Wallace R&D Engineer. “In addition, the solution allows us to model the blade structure quickly and to analyze more load cases. This enables more design optimization iterations to be considered, which is resulting in a more efficient rotor design in terms of strength, weight and cost.”
About Scotrenewables Tidal Power Ltd.
Scotrenewables Tidal Power Limited (SRTP) is a renewable energy research and development business based in the Orkney Islands. Founded in 2002, Scotrenewables has become a leading tidal turbine developer, and is the longest established, indigenous and still majority locally owned tidal energy technology developer based in Scotland. SRTP has developed an innovative floating tidal energy converter known as the Scotrenewables Tidal Turbine. Nine different scale models of the device have been tested extensively over the past 10 years both offshore and in laboratory environments. For more information please visit: http://www.scotrenewables.com

About MSC Software
MSC Software is one of the ten original software companies and a global leader in helping product manufacturers to advance their engineering methods with simulation software and services. As a trusted partner, MSC Software helps companies improve quality, save time, and reduce costs associated with design and test of manufactured products. Academic institutions, researchers, and students employ MSC’s technology to expand individual knowledge as well as expand the horizon of simulation. MSC Software employs 1,100 professionals in 20 countries. For additional information about MSC Software’s products and services, please visit: www.mscsoftware.com

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