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U.S. Navy's top partner for producing oxygen systems for its nuclear submarines, Treadwell Corp., asks Enginasion for help

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WEST BOYLSTON, Mass., Sept. 19, 2011—[Enginasion](#) (formerly Industrial Automation Systems) announced today that it has continued its long and successful business relationship with [Treadwell Corp.](#) by recently completing the design of a smaller, more user-friendly and more cost-effective system controller for Treadwell Corp.'s *Low Pressure Electrolyzer* (LPE) that serves the US's Seawolf, SSGN and Ohio classes of submarines.

Nuclear-powered submarines can cruise underwater at full power for years, as their engines do not need air. Their crews, however, do. Hence the need for *Electrolytic Oxygen Generators* that decompose water molecules into hydrogen and oxygen gases. The oxygen is used for crew life-support. Advantages of the newly designed system controller by Enginasion include:

- full automation of GUI prompts for required operator actions;
- built-in diagnostics; data & trend analysis and software interlocks;
- reduced cost; elimination of over 12,000 parts; and less noise.

The Enginasion partnership is an integral part of Treadwell's continual upgrading of its oxygen generators for extended life, lower life cycle costs, and superior reliability.

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"The reason Treadwell relied on Enginasion is because their engineers think out of the box, yet devise cost-effective and reliable solutions," added **Michael Patruski**, Engineering Manager for Treadwell Corp.

"Treadwell is an invaluable partner to the United States Navy. We are extremely proud to be working with Treadwell and our country's nuclear submarines," said **David Bonneau**, BSEE, Founder and CEO of Enginasion.

About Enginasion

Enginasion™ solves some of the most difficult technical problems involving process control, manufacturing automation, and product development, providing clients with electronic, mechanical and software engineering services from concept to production. For nearly two decades, Enginasion (formerly Industrial Automation Systems) has been an invaluable partner to companies in the Industrial, Medical Technology, Military and Pharmaceutical sectors that need a sophisticated yet affordable engineering resource to help them overcome critical hurdles related to automation, control electronics, embedded software, and/or integrated product development. Since 1995, the Company has been providing key elements of successful R&D projects, manufacturing processes, and new high-tech products at innovative companies in the Northeast U.S.