

QUANTUM TECHNOLOGIES

PRESS RELEASE

Quantum Ships First Fuel Cell Vehicle to U.S. Army

Washington, D.C. – October 25, 2004 – Quantum Fuel Systems Technologies Worldwide, Inc., (Nasdaq: QTWW) and the U.S. Army TARDEC's NAC (Tank-Automotive Research, Development and Engineering Center's National Automotive Center) unveiled a high performance, fuel cell off-road vehicle at the annual meeting of the Association of the U.S. Army in Washington, DC. The "Quantum AMV™" (Alternative Mobility Vehicle), nicknamed the "Aggressor," is a fuel cell vehicle designed and manufactured by Quantum at its California operations for the U.S. Army under contract with the NAC. This vehicle provides significant advantages to U.S. troops for high mobility in stealth operations.



Features of the Quantum Aggressor include:

- **Stealth mode:** virtually silent operating mode with reduced thermal signature
- **High-performance:** far superior acceleration compared to similar diesel or gasoline-powered all-terrain vehicles
- **Export power:** on-board electric power generation to support communications, surveillance, targeting, and other electronic equipment

The Quantum Aggressor runs on compressed hydrogen utilizing Quantum's proprietary Type IV impact resistant carbon fiber storage tanks. A 10 kW fuel cell is coupled with an energy storage module in a parallel hybrid configuration, which provides power on demand to a high-torque electric motor driving the rear-wheels. Preliminary tests have shown that the acceleration of the Quantum Aggressor is far superior to an unmodified gasoline internal combustion engine-powered all-terrain vehicle, reaching 40 miles per hour twice as fast. Ungoverned, the Quantum Aggressor is capable of reaching speeds of 80 miles per hour. Quantum's electronic control system imposes torque and speed limits on the drivetrain to enhance traction and safety.

The Quantum Aggressor can be driven to the intended destination and then be used as a silent power generator to produce high quality electricity for telecommunications, surveillance, targeting, and other battlefield equipment. The vehicle does not produce any emissions throughout the different operating modes.

More information about the Quantum Aggressor can be found on the following website:
http://www.qtww.com/products/quantum_aggressor.shtml.

In addition to being on display at the AUSA meeting, the Quantum Aggressor will be displayed at the annual SEMA (Specialty Equipment Market Association) show in Las Vegas, Nevada, from November 2 through 5, 2004, and the Special Operations Forces Week and Advance Planning Briefing To Industry Conference (SOCOM-APBI) in Tampa Bay, Florida, next June. Quantum and the NAC will also test and evaluate the vehicle on different military bases for a period of six months.

Dennis Wend, Executive Director of the U.S. Army's National Automotive Center, said, "The U.S. Army is constantly evaluating new technologies with partners like Quantum to provide innovative solutions that provide significant advantages or address the military's challenges in the battlefield. The Quantum Aggressor is a model for more efficient, high performance stealth vehicles through the use of fuel cells and advanced hybrid electric drivetrain technologies. The vehicle has an integrated power plant, which provides more functionality for our soldiers. What we've learned from this project definitely has the potential to translate into real solutions to give our Soldiers an advantage."

Alan P. Niedzwiecki, President and CEO of Quantum said, "We designed the Quantum Aggressor for the U.S. Army specifically to leverage the benefits that a fuel cell drivetrain has to offer. The vehicle's stealth

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mode, significant acceleration capabilities, and exportable power are significant advantages for U.S. Army troops. This vehicle may also be very well-suited for other commercial applications such as homeland security and border patrol operations.”

About the NAC

TARDEC, headquartered at the Detroit Arsenal, Warren, Michigan, is responsible for developing and maintaining vehicles for all U.S. Armed Forces, many federal agencies and more than 60 foreign countries. TARDEC’s National Automotive Center is the Army’s official link to commercial industry, academia and government in developing new dual-use automotive technologies that meet the needs of both defense and commercial industries. Together, they lead the way in providing our Soldiers with vehicles and vehicle technologies that will increase survivability and ensure mobility on the battlefield while reducing design, manufacturing, operations and maintenance costs.

About Quantum

Quantum is a leading designer, integrator and manufacturer of packaged fuel systems for fuel cells and alternative fuel applications in the transportation, fuel cell stationary power generation and hydrogen refueling infrastructure markets. Leveraging its core competencies in ultra-light weight composite fuel storage, fuel injection, fuel metering, electronic controls, OEM-level systems integration, and years of OEM production experience, Quantum also designs and manufactures hybrid and fuel cell vehicles.

Quantum is a Tier 1 OEM supplier and has product commercialization alliances with General Motors, Sumitomo and IMPCO. Quantum’s customer base includes General Motors, Toyota, Opel, Hyundai, Suzuki, Ford, Sunline, Yamaha, AeroVironment, and the U.S. Army.

Quantum's web site: www.qttw.com.

Except for historical information, the statements, expectations, and assumptions contained in the foregoing press release are forward-looking statements. Such forward-looking statements include, but are not limited to, the Company's expectations regarding revenues and cash from operations in future periods and expected future operating results; future opportunities for Quantum; the Company’s ability to fulfill orders in the future; and other statements about the future expectations, beliefs, goals, plans, or prospects expressed by management. Such statements are subject to a number of risks and uncertainties, and actual results could differ materially from those discussed in any forward-looking statement. Factors that could cause actual results to differ materially from such forward-looking statements include, among other factors, prevailing market conditions; the Company's ability to design and market advanced fuel metering, fuel storage and electronic control products and vehicles; the Company's ability to meet military specifications; and the level and success of the Company's development and commercial programs with the military, particularly shifts in demand for fuel cell products from customers. Reference should also be made to the risk factors set forth from time to time in the Company's SEC reports, including but not limited to those contained in the section entitled "Risk Factors" in the Company’s Annual Report on Form 10-K for the fiscal year ended April 30, 2004. The Company does not undertake to update or revise any of its forward-looking statements even if experience or future changes show that the indicated results or events will not be realized.

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