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ATLANTA NONPROFIT DELIVERS EXTENDED RANGE HYDROGEN FUEL CELL UTILITY VEHICLES FOR DEPARTMENT OF DEFENSE

Atlanta, GA – A team led by the Center for Transportation and the Environment (CTE) has recently completed the build, test and delivery of two prototype hydrogen utility vehicles for a 12-month operational demonstration at Defense Distribution Depot Warner Robins Georgia (DDWG). The vehicles feature on-board hydrogen storage that extends the operating range of electric utility vehicles, and initial testing has demonstrated a range of over 300 miles.

The project team, led by CTE, includes Gas Technology Institute, The University of Texas at Austin – Center for Electromechanics, Hydrogenics Corporation, and Columbia ParCar, recently showcased the vehicles at the 2010 Fuel Cell Seminar in San Antonio, Texas. Demonstration in Warner Robins is set to begin in early November.

In Phase I of the project, the Team conducted an engineering design analysis to identify and compare potential hydrogen storage technologies, fuel cell options, electrical energy storage and powertrain architectures for use on an electric utility vehicle. The analysis identified trade-offs in performance for each of the options, including weight, volume, cost, safety, and commercialization potential and resulted in a detailed design and report comparing the resulting vehicle versus a vehicle operating on current state-of-the-art batteries. Based on the results of the comparative analysis, the team selected an 8.5 kW fuel cell hybrid configuration including 350-bar high-pressure hydrogen storage and ultracapacitors for energy storage as the best drive train option for this application. The Team was selected to build, test, and demonstrate the vehicles under Phase II of the program. Performance and reliability data will be collected throughout the 12-month pilot period for evaluation and potential for future markets.

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About CTE/SHFCC

The Center for Transportation and the Environment (CTE) is a nonprofit, 501 (c)(3) organization that develops technologies and implements solutions to achieve energy and environmental sustainability. Since its founding in 1993, CTE has managed a portfolio of over \$170 million in federal, state, and local cost-shared research, development, and demonstration projects involving more than 450 organizations in the advanced transportation technology field. CTE has facilitated and leveraged funding for its

projects and initiatives from the *U.S. Departments of Defense, Energy, Interior, and Transportation*, as well as from the *U.S. Army* and *NASA*, among many others. CTE is also nationally recognized for its expertise in the measurement and evaluation of Transportation Demand Management programs and manages the Southern Hydrogen & Fuel Cell Coalition (SHFCC) in partnership with the Federal Transit Administration.

SHFCC membership includes universities, national laboratories, corporations, nonprofit organizations, and government agencies working in partnership to identify and act upon opportunities to bring hydrogen and fuel cell technologies to market. The SHFCC has organized an expanding network of stakeholders, provided seed funding for eight demonstration projects, hosted a national fuel cell conference focusing on regional resources and assets, and initiated a variety of hydrogen and fuel cell related projects.