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AT THE COMPANY

John V. Moran
Chief Executive Officer

FOR IMMEDIATE RELEASE

**GSE Systems Announces Award to Build
Full Scope Power Plant Simulator for U.S. Based
AP1000 Nuclear Plants**

Sykesville, Maryland, July 30, 2009 -- GSE Systems, Inc. (GSE) (NYSE Amex – GVP), a leading global provider of real-time simulation and training solutions to the power, process, manufacturing and Government sectors, announced the award of a multi-million dollar contract from Westinghouse Electric Company (Westinghouse) to build an AP1000™ nuclear power plant simulator based upon Westinghouse's design for domestic customers.

This award covers an initial phase of work that will focus on building high fidelity simulation models for the AP1000 nuclear systems. These models will help Westinghouse demonstrate the plant design and control room human factors. The models that will be built in this current phase will be largely common to all future U.S.-based AP1000 plants and hence highly reusable from plant to plant. GSE anticipates future awards that will address the remaining plant systems. These future systems are expected to be different from plant to plant, and, therefore, the Company expects these contracts to be issued on a plant specific basis in the future.

The Westinghouse AP1000 is the technology of choice for no less than 14 announced U.S. nuclear power plants, including six for which Engineering, Procurement and Construction contracts have been signed. Providing a plant simulator at each site is included within the scope of work between Westinghouse and these U.S. customers.

John V. Moran, GSE's CEO commented, "We are excited to be building the simulators for the first Generation III+ nuclear power plants expected to be constructed in the U.S. Of significance is the fact that U.S. nuclear utilities are demonstrating the need for full scope simulators to train new nuclear workers

early in the licensing, design and construction process. Moreover, it underscores the fact that the nuclear renaissance currently being experienced in many other parts of the world has arrived here in the U.S.”

GSE Systems, Inc. provides training simulators and educational solutions. The Company has over three decades of experience, over 349 installations, and 100 customers in more than 40 countries. Our software, hardware and integrated training solutions leverage proven technologies to deliver real-world business advantages to the energy, process, manufacturing and government sectors worldwide. GSE Systems is headquartered in Sykesville, Maryland located in the western suburbs of Baltimore, Maryland. Our global locations include offices in St. Marys and Augusta, Georgia; Tarrytown, New York; Nyköping, Sweden and Beijing, China. Information about GSE Systems is available via the Internet at <http://www.gses.com>.

We make statements in this press release that are considered forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934. These statements reflect our current expectations concerning future events and results. We use words such as “expect,” “intend,” “believe,” “may,” “will,” “should,” “could,” “anticipates,” and similar expressions to identify forward-looking statements, but their absence does not mean a statement is not forward-looking. These statements are not guarantees of our future performance and are subject to risks, uncertainties, and other important factors that could cause our actual performance or achievements to be materially different from those we project. For a full discussion of these risks, uncertainties, and factors, we encourage you to read our documents on file with the Securities and Exchange Commission, including those set forth in our periodic reports under the forward-looking statements and risk factors sections. We do not intend to update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise.

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