

GSE and Idaho National Laboratory Awarded DOE Grant to Develop Highly Dynamic Procedures and Decision Support Solutions for Advanced Reactors

COLUMBIA, Md. –

GSE Systems, Inc. (“GSE” or the “Company”) (Nasdaq: GVP) today announced that the US Department of Energy (DOE) has awarded GSE and Idaho National Laboratory (INL) a grant to develop dynamic procedures and decision-support solutions for advanced reactors. The grant is aimed towards developing and commercializing a system with the functionality to revolutionize operator and system efficiency, as compared to existing paper-based processes.

The new technology aims to address a variety of industry challenges, including barriers to adoption, and the large number of procedures and data architecture required to address advanced reactors that feature increased levels of automation, sensors and instrumentation.

By leveraging GSE’s highly specialized expertise and technology in control room and plant simulators, software development, and nuclear operations procedures and INL’s expertise in human factors, computer-based procedures, and operator decision support, power plant operators will be able to greatly reduce time spent on administrative tasks and increase efficiencies. The system will utilize dynamic procedure decision support for control room operations, emphasizing data analytics and monitoring of plant data, as well as intuitive user interfaces and functionality.

“As the nuclear industry searches for ways to become more efficient, this project has the potential to optimize human performance in terms of decision support needed in both the control room and the field,” said Johanna Oxstrand, Human Factors Scientist at INL and the Principal Investigator for the project.

“This synergetic collaboration is helping to create a radically new operating paradigm for the nuclear industry,” added Dr. Bahram Meyssami, GSE’s Chief Technology Officer. “We are thrilled that the GSE expertise and talent that creates operational excellence for our clients every day is also being applied to the forefront of our industry.”

ABOUT GSE SYSTEMS

GSE Systems, Inc. is a leading provider of engineering, expert staffing, and simulation software to clients in the power and process industries. GSE’s products and services are tailored to help customers achieve performance excellence in design, training, compliance, and operations. The Company has over four decades of experience, more than 1,100 installations, and hundreds of customers in over 50 countries spanning the globe. GSE Systems is headquartered in Maryland, with offices in Alabama, Florida, Colorado, Texas, and

Beijing, China. www.gses.com.

ABOUT INL

INL is part of the US Department of Energy's complex of national laboratories. The laboratory performs work in each of the strategic goal areas of DOE: energy, national security, science and environment. INL is the nation's leading center for nuclear energy research and development. INL is managed by Battelle Energy Alliance for the Department of Energy's Office of Nuclear Energy.

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