Hong Kong University Utilizing GPWR for Nuclear Energy Education and Research
City University of Hong Kong makes simulation laboratory centerpiece of nuclear and risk engineering education curriculum

As one of the fastest growing young universities, City University of Hong Kong is establishing a nuclear and risk engineering education and research program with nuclear power plant safety and emergency response for nuclear accidents as one of the main focus areas.

The Nuclear Reactor Simulator Laboratory is the centerpiece and first laboratory of the program, including a mock-up nuclear power plant control room and a classroom equipped with multiple sets of operation stations as the hands-on student interface.

GSE’s GPWR™ Generic Pressurized Water Reactor Simulator was selected by City University to provide high-fidelity, full operation range simulation to the laboratory, which will allow students to experience realistic nuclear power plant operations, and provide faculty with a simulation software environment to perform research.

In addition to the GPWR, other GSE simulation products have also been implemented in the laboratory, including the VPanel™ Glass-Top Virtual Control Room Panel and Activ3Di™ Virtual GlassPWR Trainer™ which will enable students to “visualize the invisible” by utilizing a virtual version of a 3 loop pressurized water reactor. As the new laboratory is open for public and school visits, the VPanels and Activ3Di Virtual GlassPWR Trainer are essential tools for enhancing public understanding of nuclear power plant operation and safety through visualization technology.

“Bringing simulation into the classroom as well as control room setup will enable students to learn and experience nuclear power plant operations through hands-on practice, while faculty can perform research using the software environment.”

DR. LUK, BING LAM
City University of Hong Kong

Case Study
About GSE Systems

GSE Systems, Inc. is a world leader in real-time high-fidelity simulation, providing a wide range of simulation, training and engineering solutions to the power and process industries. Its comprehensive and modular solutions help customers achieve performance excellence in design, training and operations. GSE’s products and services are tailored to meet specific client requirements such as scope, budget and timeline. The Company has over four decades of experience, more than 1,100 installations, and hundreds of customers in over 50 countries spanning the globe.

Information about GSE Systems is available at www.gses.com.

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