

Lockheed Martin And SNPAS Of China Sign Agreement For Nuclear Plant Safety Systems Work

ARCHBALD, Pa., June 12, 2013 /PRNewswire/ -- Lockheed Martin (NYSE: LMT) and State Nuclear Power Automation System Engineering Company (SNPAS) have signed an agreement to prototype, manufacture and qualify nuclear power plant reactor protection systems for China's Generation III reactors. SNPAS is a subsidiary of China's State Nuclear Power Technology Corporation (SNPTC).

Lockheed Martin and SNPAS will develop a nuclear safety instrumentation and control platform, based on field programmable gate array (FPGA) technology, for a new generation of Reactor Protection Systems in China. Terms of the agreement were not disclosed.

"We recognize the importance of nuclear power as a critical energy alternative for increased demand and have been developing instrumentation and control systems for more than 55 years," said Jim Gribschaw, general manager of nuclear systems and solutions at Lockheed Martin. "We are committed to creating and implementing industry-specific solutions for civilian nuclear power plants, ensuring the safety of critical power generating infrastructure."

"Nuclear safety is the most critical requirement for civilian nuclear power plants. SNPAS is dedicated to developing safe and reliable, advanced instrumentation and control solutions in order to meet China's demand for safe and efficient development of nuclear power," said Qiu Shaoyang, general manager of SNPAS. "We believe that the cooperation between SNPAS and Lockheed Martin will provide safer and more secure technical solutions and equipment for nuclear power plants worldwide."

The unique FPGA-based platform will specifically address safety and regulatory concerns related to software common-cause failures in digital nuclear safety systems. These systems will autonomously and reliably monitor and detect potential failures in the system, ensuring the safe operation and function of the facility. The platform may be applied both in new plant deployment and in safety system upgrades for existing power plants.

"Our energy and climate initiatives closely align with SNPAS's vision to address the expansion of China's nuclear energy generating capacity and help mitigate carbon emissions caused by fossil-based energy generation," Gribschaw said.

Lockheed Martin and SNPAS have submitted a Licensing Topical Report to the U.S. Nuclear Regulatory Commission (NRC) and China National Nuclear Safety Administration (NNSA) for generic digital safety instrumentation and control platforms that could be used in U.S., China and international civilian nuclear power plants. The NRC and NNSA are currently reviewing the report.

Lockheed Martin's Nuclear Systems and Solutions business provides numerous advanced products and solutions in the modern digital nuclear instrumentation and controls industry. These solutions include products and services related to current and next-generation civilian nuclear systems. In addition to its work in civil nuclear energy, Lockheed Martin is working with its customers to address energy and climate challenges in the areas of next-generation alternative energy, energy efficiency and storage and climate monitoring.

Headquartered in Bethesda, Md., Lockheed Martin is a global security and aerospace company that employs about 118,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. The Corporation's net sales for 2012 were \$47.2 billion.

State Nuclear Power Automation System Engineering Company was established with investment from SNPTC and Shanghai Automation Instrumentation Corporation Ltd. SNPTC, a state-owned enterprise governed by the State Council, is a key entity and platform for the introduction of third-generation Chinese nuclear power technology, project construction and self-reliance development. By working together with overseas partners, SNPTC is working on providing safe, clean, economic and reliable energy by advanced nuclear technology, products and services.

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