

MHI Receives Order for Two STGs for Sanmen NPS in China

On September 28, Mitsubishi Heavy Industries, Ltd. (MHI) announced that it had received an order earlier that day from Sanmen Nuclear Power Co., Ltd. in China, for two steam turbine generators (STG) for use in the Zhejiang Sanmen Nuclear Power Plant (NPP), which is expected to go on line in 2013 and 2014. The project was proposed jointly with Harbin Power Equipment Co., Ltd. (HPEC), one of China's three large manufacturing groups of thermal power generation equipment. The contract was signed in Beijing.

The order, which amounts to around 60-70 billion yen (\$510-600 million), consists of two 1,200-MW turbines, two generators, as well as peripheral equipment such as condensers and pumps. The turbines are MHI's most advanced high-performance, high-efficiency units employing state-of-the-art 54-inch class rotating blades. Their design and manufacture will be handled by MHI's Takasago Machinery Works, while Mitsubishi Electric Corporation will supply the generators. HPEC, which has extensive experience in manufacturing boilers, turbines, and generators, will be responsible for turbine casings, piping, and associated equipment. Mitsubishi Corporation will handle the trade particulars.

The Zhejiang Sanmen NPS, to be built on Maotoushan Peninsula in Zhejiang Province along the East China Sea, will be constructed and operated by Sanmen Nuclear Power, a 51%-owned subsidiary of the China National Nuclear Corporation (CNNC). The turbines will be used as generator systems for two AP1000 nuclear reactors developed by Westinghouse, a Toshiba Group subsidiary in the United States. In July, Westinghouse had won the order for the reactors to be used in Sanmen.

So far, MHI has received overseas orders for two NPP-use turbines each at two newly-built plants, Mexico's Laguna Verde and Taiwan's Lungmen, as well as other NPP-related equipment in Spain and Slovenia. Although it had previously received an order in China for pressure vessels to be used at the Qinshan NPS, this is the first time the company won an order for a turbine generator in that country. Indeed, it is MHI's largest NPP equipment order from overseas to date.

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