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Mitsubishi Electric Digital Instrumentation and Control System for Nuclear Power Plants in Fujian Province, China Begins Operations

First collaborative Chinese-Japanese digital I&C system for nuclear power plant in China

TOKYO, May 8, 2013 – [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (TOKYO: 6503) announced today that the digital instrumentation and control (I&C) system for nuclear power plants in China, developed jointly by Mitsubishi Electric and China Techenergy Corporation Ltd. (CTEC), has begun commercial operations. The system is installed in the first unit of the Fujian Ningde nuclear power plant constructed by China Guangdong Nuclear Power Holding Co., Ltd. (CGNPC), and is the first of 14 digital I&C systems for which Mitsubishi Electric and CTEC received orders in July 2007 as part of the first commercial collaboration between China and Japan in the field of nuclear power.



Central Monitoring Room



Digital Instrumentation and Control System

The digital I&C system enables overall control and monitoring of the nuclear power plant for safe operation and efficient power generation. The system comprises a main board for controlling plant operations, non-safety control cabinets, safety-protection cabinets and related software equipped in each cabinet.

Mitsubishi Electric and CTEC carried out designing, assembly and testing. The system was delivered in

January 2011. Mitsubishi Electric is coordinating the project as the consortium leader and is manufacturing the safety-protection cabinets, while CTEC is manufacturing the non-safety control cabinets. The installed I&C system has approximately 180 cabinets, 112 of which Mitsubishi Electric supplies.

In July 2007, Mitsubishi Electric and its consortium partner CTEC received an order for six digital I&C systems for CPR1000-type nuclear power plants in Liaoning and Fujian Provinces from China Nuclear Power Engineering Corporation Ltd. (CNPEC), an engineering subsidiary of CGNPC in cooperation with Mitsubishi group companies, Mitsubishi Heavy Industries and Mitsubishi Corporation. This was followed by an order for four systems for plants in Guangdong and Fujian Provinces in 2009, an order for two systems for plants in Guangxi Province in 2010 and an order for two systems for plants in Guangdong Province in 2011. Of the 16 CPR1000 nuclear power plants in China, 14 will use digital I&C systems developed by Mitsubishi Electric and CTEC.

Nuclear power capacity in China is expected to increase from 13GW at present to 58GW by 2020, and then 200GW by 2030. More than 60 new nuclear power plants are planned to be operating by midcentury.

CGNPC, a major electric power company, owns seven of China's 16 operating nuclear power plants and 15 of 29 additional plants under construction. The company plans to build approximately 10 within the next five years.

Mitsubishi Electric aims to further strengthen its nuclear power business overseas and win more orders for digital I&C systems.

Summary of orders for 14 digital instrumentation and control systems

Customers	1. Liaoning Hongyanghe Nuclear Power Co.,LTD., Fujian Ningde Nuclear Power Co., LTD, Yangjiang Nuclear Power Co., LTD., and Guangxi Fangchenggang Nuclear Power Co., LTD. (all subsidiaries of CGNPC) 2. China Nuclear Power Engineering Co., LTD. (Guangdong Province engineering subsidiary of CGNPC)
Contractors	1. Mitsubishi Electric Corporation (consortium leader) 2. China Techenergy Co., LTD. (Chinese engineering company)
Product	Digital I&C system for nuclear power plants (14 units)
Installations	Liaoning Hongyanghe Nuclear Power Plant unit nos. 1, 2, 3 & 4 Fujian Ningde Nuclear Power Plant unit nos. 1, 2, 3 & 4 Yangjiang Nuclear Power Plant unit nos. 1, 2, 3 & 4 Guangxi Fangchenggang Nuclear Power Plant unit nos. 1 & 2
Total Order Value	Approx 70 billion JPY (consortium's total)

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About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 3,567.1 billion yen (US\$ 37.9 billion*) in the fiscal year ended March 31, 2013. For more information visit <http://www.MitsubishiElectric.com>

*At an exchange rate of 94 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2013