

Finland: Framatome successfully completes modification of Loviisa nuclear power plant's Control rod instrumentation & control system

Framatome has successfully modified the Preventive Protection System (PPS) at the Loviisa* nuclear power plant, operated by the Finnish utility Fortum. The Preventive Protection System uses control rods to monitor the reactor power and contributes to the safe operation of the plant. Implementation of the PPS is part of the modernization of the plant's I&C system.

The project started in 2016 when Fortum awarded Framatome the contract for the PPS and included the modification of the TELEPERM XS technology, originally delivered by Framatome in 2008 (Unit 1) and 2009 (Unit 2).

Framatome's I&C teams prepared the required documentation, designed and engineered the system modification and performed the final testing, installation and commissioning on site during the 2018 outage. These tasks are essential for the functionality of the entire system and are also mandatory for obtaining the licensing by the Finnish safety authority STUK.

A joint team approach and close cooperation between Framatome and Fortum at all stages of the project were key to ensuring successful completion on time and to budget.

"This successful modification project proves Framatome's ability to provide I&C upgrades to different reactor types worldwide. Our TELEPERM XS I&C system is well known to Finnish operators and the authority STUK which is a perfect basis for further projects", said Frédéric Lelièvre, Senior Executive Vice President in charge of Sales, Regional Platforms and the Instrumentation and Control Business Unit at Framatome.

* The Loviisa nuclear power plant consists of two pressurized water reactors with an installed net capacity of 507 megawatt each. It is situated on the south coast of Finland. Loviisa 1 started commercial operation in 1977, Loviisa 2 followed in 1980.

Framatome is a major international player in the nuclear energy market recognized for its innovative solutions and value-added technologies for designing, building, maintaining, and advancing the global nuclear fleet. The company designs, manufactures and installs components, fuel and instrumentation and control systems for nuclear power plants and offers a full range of reactor services.

With 14,000 employees worldwide, every day Framatome's expertise helps its customers improve the safety and performance of their nuclear plants and achieve their economic and societal goals.

Framatome is owned by the EDF Group (75.5%), Mitsubishi Heavy Industries (MHI – 19.5%) and Assystem (5%).

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