

Press release

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AREVA Safety I&C standardizes engineering tool environment **Decision in favour of database-driven engineering system from Aucotec**



AREVA GmbH, the German subsidiary of the globally acting specialist for nuclear power plant technology, has opted for Aucotec in the basic and hardware engineering discipline of their safety Instrumentation & Control (I&C). Despite highly automated tools deployed in AREVA's engineering centre, Erlangen, which executes engineering projects on the basis of their control system throughout the global group, the software platform Engineering Base (EB) replaces miscellaneous previously used

maintenance inflexible tools. Thus EB contributes to the standardization of the system environment and engineering workflows at AREVA NP Safety I&C.

Implementation ahead of time

"In an analysis, Aucotec had proven that EB provides significant savings due to increased productivity in combination to higher quality and potential for further enhancements," explains Steffen Richter, regional head of I&C and Electrical Products at AREVA. This result led the planned deployment to be initiated one year ahead of original schedule. "In addition to its unique and flexible architecture, we were won over by the object-oriented data management and the simple, clear configuring of even complex interrelationships," says Richter. "We can connect our internal processes to EB, this unifies our methods in different design steps and the representation of engineering data becomes much easier."

Management of all relevant engineering data

As further reasons for the decision, the engineering expert referred to the fact that the new system enables the generation of function-based manufacturing documentation according to international standards and is also used for the convenient management of all relevant engineering data generated and modified in various phases of the project. EB is designed to support the entire life cycle of the I&C systems. "We expect a strong partnership that will support us in the deployment phase and cover the evolution of our needs over the years," says Steffen Richter. "We are also thinking of the possibility of subsequently extending the solution to more sites."

Aucotec's Executive Officer for Engineering Uwe Vogt had the following to say about the decision: "Safety and reliability have top priority for AREVA. They are also of equal importance to us. EB's central plant model, which minimizes system disruptions, misleading discussions and transmission errors, is perfect for this purpose. We have invested over three decades of experience in EB. We are looking forward to a successful collaboration based on trust!"

Pilot project

AREVA's platform TELEPERM® XS, for whose engineering EB is used, is one of the most common safety I&C systems for nuclear power in the world. It is used wherever the maximum level of reliability is required. In a pilot project, EB and the master data are to be adapted this year to the AREVA-specific processes and documentation requirements. Furthermore, a catalogue will be created with standardized templates and tested in a pilot project. AREVA and Aucotec experts are working closely together for this purpose. The first full live performance of the system is planned for 2017.

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AREVA safety control technology for nuclear power plants (© AREVA)



Test field for AREVA's safety instrumentation and control system (© AREVA)



Dr. Steffen Richter, Regional Head of I&C and Electrical Products at AREVA (© AREVA)



Uwe Vogt, Executive Officer at Aucotec AG (© AUCOTEC AG)

If printed, we would appreciate receiving a copy. Thank you very much!

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In Germany, **AREVA GmbH** unites numerous key competences in nuclear engineering. These include electrical engineering and safety I&C, the retrofitting and modernization of nuclear power plants, the development and production of fuel assemblies, pilot plants and nuclear research. The decommissioning of nuclear power plants, however, is also part of its portfolio. From Germany, AREVA reliably maintains nuclear power plants at home and abroad or modernizes them comprehensively. 3,300 employees work at the head office of the private limited company in Erlangen. Another site is located in Karlstein am Main.

Aucotec AG has over 30 years of experience in developing engineering software for the entire life cycle of machines, plants and mobile systems. The solutions range from flow diagrams through control and electrical engineering for large-scale plants to modular harness design in the automotive industry. Aucotec software is in use all over the world. In addition to its headquarters in Hanover, Aucotec operates six further sites in Germany as well as subsidiaries in China, France, the United Kingdom, Italy, Austria, Poland, Sweden and the US. A global network of partners ensures local support throughout the world.