



Forsmark Nuclear Power plant, located in North Roslagen, is one of Sweden's largest producers of electricity.



By Erik Johansson, Technia AB



Each of Forsmark's three water boiler reactors produces every year enough electricity to cover Stockholm's needs.



In practice

VATTENFALL

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Working without a Glitch

Forsmark Nuclear Power plant in Sweden selected ENOVIA SmartTeam to share data between different environments thus increasing efficiency. Technia met Christer Eriksson, Business Information Officer at Forsmark to better understand how PLM supports plant lifecycle management.

Contact Mag: What are the biggest challenges facing the Nuclear Power industry?

Christer Eriksson: Our company and business face big changes – we are in the middle of major modernization projects of plants and facilities, and we have an aging staff where many experienced

employees will soon retire. A major portion of our staff has been working with us since the plants were built a few decades ago. As a result, our company risks losing indispensable knowledge related to these plants. Information resides in these employees' minds and passing it onto future employees requires that we consolidate all information in one place. This is where PLM strategies come into play. Through PLM we can record and then leverage this knowledge leading to better management of our plants and documentation. Companies in our business often use many different systems for asset and document management which store data in different formats and locations, making it difficult to find the correct information when something fails. Furthermore we have an increasing number of safety and environmental regulations to follow and this can be managed by our PLM System.

C.M.: Why has Forsmark invested in PLM?

C.E.: It all began with a need to manage our document and product data in a coherent and consistent way. Other possibilities existed but they involved using different systems that did not necessarily communicate with one another. It

was functional but we needed to increase efficiency by sharing data between different environments. Furthermore, the sources often became corrupt when adding the "same" data in different systems. We conducted a study of different PLM systems and found that ENOVIA SmartTeam suited our needs best.

C.M.: How many people use the solution?

C.E.: We're managing all our documentation with ENOVIA SmartTeam. As a result, our entire staff of more than 1000 employees is involved at some level. This is important because everyone should be able to collaborate using the same system. A key reason we wanted to manage all information with one system was because we wanted to bring together the entire company and share a common culture across the different organizations. There are often many different subcontractors in a company due to the fact that they generally work with several information systems; the maintenance department has its own culture whereas constructors have another, for example.

C.M.: How was the solution implemented?

C.E.: The implementation started back in 2006

Efficiency and traceability are some of the most important benefits derived by using ENOVIA SmartTeam. Today it's much easier to find the right information of any particular part of the plant. It has also helped us obtain a common view of the plant's structure.

and involved only documentation management. Over the years we expanded the use of the system and now all product data is managed with ENOVIA SmartTeam. It was not until the last few months that we used the system as it was meant to be used thereby deriving the most benefit from our implementation. Today all our legacy systems are integrated into one.

C.M.: What are the specific benefits that you have seen so far?

C.E.: Efficiency and traceability in our work. Today it's much easier to find the right information of any particular part of the plant. It has also helped us obtain a common view of the plant's structure. As mentioned earlier, our systems are now fully integrated with one another and communication between them has been possible thanks to our PLM system.

Furthermore specific task-oriented documentation, for example maintenance tasks, can more easily be defined and linked to the documentation

for the actual equipment in question. Review and approval flows can be tailored for specific document types and thus be supported by the PLM system. Control of revisions is very well supported in the system. The ability to classify a document's lifecycle in different work-classes is a particular strength of the PLM system.

C.M.: What is in store for the future?

C.E.: After the December release in 2008 we plan to expand our PLM implementation. The next step in our PLM strategy is to integrate the import/export capability so that, for example, our subcontractors can work with us using the same system. We're also planning to optimize our project environment in order to have even better control over project documents.]

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More about Forsmark

Forsmark is the most recently built nuclear power plant in Sweden - the three reactors were all commissioned between 1980 and 1985. The total power output is approximately 3,160 MW. Forsmark has 950 employees and an annual turnover of around SEK 5.5 billion. The company was founded in 1973 by Vattenfall AB and Mellansvensk Kraftgrupp AB. The current owners are Vattenfall (66%) Mellansvensk Kraftgrupp (25.5%) and E.ON Klänkraft Sverige (8.5%).

www.vattenfall.com

More about Technia

Technia is one of the leading suppliers of Product Lifecycle Management Solutions for creating and managing product information throughout the entire product lifecycle. Technia, with more than 110 employees, is a strategic partner of more than 200 companies. It has offices in Stockholm, Gothenburg, Helsinki and Oslo. Technia's customers include: Ericsson, GE Healthcare, ESSAB, Dandner Motion, GE Healthcare, Marifoff, Metsjo Paper, Mölnlycke Health Care, Nokia, Perkin Elmer LifeSciences, Proximion, Scania, Sictra Mamea, and Sony Ericsson.

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