

DLSS[®] Nuclear

INSTRUMENTATION & CONTROLS

DLSS Provides Critical Update to Commercial Nuclear Power Plant

NEW I&C SYSTEM AT EXELON'S CALVERT CLIFFS NUCLEAR POWER PLANT PROVIDES GREATER SAFETY, EFFICIENCY AND RELIABILITY



SYSTEM SIZE & TECHNOLOGY

Discrete Logic Solving System 1,850 MW pressurized water reactors

APPLICATIONS

DLSS was used to apply a standard set of building blocks, customized to meet the original requirements of the operating plant's Engineered Safety Features Actuation System (ESFAS).

LOCATION

Exelon Generation's Calvert Cliffs Nuclear Power Plant, Unit 2 Calvert County, Maryland

SYSTEM BENEFITS

- Updated system for increased safety and long-term operation
- Analog system eliminates re-licensing risk
- Cost-effective, efficient installation process

PROJECT SUMMARY

In partnership with Framatome, Lockheed Martin successfully completed the installation and site acceptance testing of DLSS to create a new Engineered Safety Features Actuation System (ESFAS) replacement for Exelon Generation's Calvert Cliffs Nuclear Power Plant, Unit 2, during the plant's spring refueling outage. Lockheed Martin's DLSS technology is an analog-based system that did not require a re-licensing process. The new ESFAS boasts triple modular redundancy and allows plant operators to control and manage reactor operations to ensure efficient and reliable power generation. The contract to develop the customized analog system was awarded in 2017 to Framatome in collaboration with global security and aerospace company Lockheed Martin's Energy line of business.

About Lockheed Martin Energy

Lockheed Martin Energy is a line of business that delivers comprehensive solutions across the energy industry to include energy storage, demand management solutions, microgrids, military energy solutions, nuclear systems and bioenergy generation. For additional information, visit our website: www.lockheedmartin.com/energy.

“The teamwork displayed by Framatome, Lockheed Martin and the Calvert Cliffs site staff at Unit 2 was exemplary, and it played a significant role in the success of this project.”

– FRÉDÉRIC LELIÈVRE,
SENIOR EXECUTIVE VICE PRESIDENT, SALES, REGIONAL PLATFORMS AND INSTRUMENTATION AND CONTROLS, FRAMATOME



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