



Equipment Modernization Products

Refurbishment, replacement and new equipment solutions to support safe and reliable plant operations while reducing operating costs

Faced with product obsolescence, reliability issues and maintenance requirements, utilities must properly maintain electrical distribution systems and other electrical equipment. Framatome has more than twenty-five years of experience supplying nuclear electrical products. We provide qualified and dedicated new and replacement equipment. We can replace components with the same form, fit and function.

Framatome's Equipment Modernization Products group provides the nuclear industry with products including variable frequency drives, motors, digital protection relays, and electrical distribution equipment such as breakers, switchgear, motor control center bucket replacements, panelboards and spare components. Framatome has long-standing relationships with Siemens, Schweitzer Engineering Laboratories (SEL), Eaton and other original equipment manufacturers to provide electrical products to the nuclear industry, including vintage Westinghouse electrical distribution equipment.

Our services include commercial grade dedication, training, installation, service contracts and maintenance programs.



Products

• Low voltage (LV)

- Complete circuit breaker replacements/retrofits
- Circuit breaker refurbishment services
- DS circuit breakers and refurbishment kits
- Trip unit solutions
- New switchgear assemblies
- Switchboards and panelboards including retrofit chassis upgrades
- New motor control centers (MCCs)
- MCC retrofit buckets
- Vacuum starter replacements

• Medium voltage (MV)

- Vacuum circuit breaker replacements
- Circuit breaker refurbishment services
- Circuit breaker enhanced maintenance kits
- New switchgear assemblies
- Safety-related transformers
- Vacuum starters/contactors

• Digital protection relays

- Integrated solution
- Replacement panels and switchgear doors with mounted components
- Technical, licensing and installation expertise
- Qualified SEL relays for key applications

The trusted partner for high-quality, turn-key integration of modern electrical products and engineering solutions customized for the nuclear industry.

Focused on improving reliability, enhancing plant cost-effectiveness and addressing obsolescence to support long-term operations.

- **Variable frequency drives (VFDs)**

- New high-availability, water-cooled VFDs
- Replacement parts
- Upgrades

- **Emergency diesel generators (EDGs)**

- New and replacement generators for emergency diesels

- **Motors (NEMA and ANEMA)**

- Best form-fit-function designs
- Duplicate to previous builds
- New reactor coolant pump motors
- Motor parts

- **Spare parts including:**

- Circuit breaker parts
- MCC bucket/structure parts
- Molded case circuit breakers (MCCB)
- Motor parts
- MV and LV fuses
- MV and LV switchgear parts
- Relays
- Starters/contactors/overloads/heaters
- Switches/pushbuttons/lamps
- VFD parts



Services

- **Equipment qualification**

- Existing qualifications - Framatome maintains an extensive database of pre-qualified assemblies and components.
- Management of complete programs that include environmental, seismic, endurance, irradiation and EMC testing
- Multiple environmental chambers for a variety of applications, aging, and severe/accident conditions
- Standards: IEEE-344 and IEEE-323 compliant



- **Commercial grade dedication (CGD):**

- Dedication program in compliance with latest EPRI Guideline 3002002982 (Rev 1 to EPRI 5652/TR102260)
- Industry leader
- Item equivalency evaluations
- More than 25 years of experience in CGD of electrical products

- **Engineering expertise and experience**

- 10CFR50 Appendix B Quality Assurance Program
- All aspects of the CGD and engineering processes meet or exceed the quality expectations of the nuclear industry.
- Thoroughly inspect, test and analyze every product to meet the customers' requirements
- White paper and business case support



- **Product engineering services**

- Equipment installation support
- Optional bundled solutions (i.e., mod engineering with products)
- Technical support for component coordination
- Training programs on-site or at Framatome/original equipment manufacturer facilities
- Troubleshooting and root/apparent cause evaluations
- Turn-key engineering/procurement/construction (EPC) solutions

- **Emergency services:**

- Electrical distribution systems
- Switchgear recovery

The Equipment Modernization Products group supports customer needs by offering high-quality, nuclear qualified products to address equipment reliability, obsolescence, and modernization upgrades resulting in reduced operating costs and increased plant operating efficiency. Count on it.

framatome



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