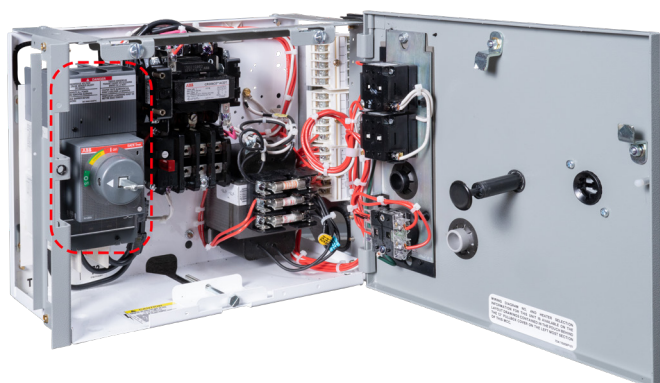


LEAFLET

# Nuclear qualified bucket units to replace units of 7700, 8000-line & Spectra™ motor control centers



01  
Nuclear qualified 12"  
feeder unit with SACE®  
Tmax XT® circuit breaker

## Reliable components to repair, expand and modernize existing motor control centers (MCCs)

Legacy GE Industrial Solutions (GEIS) motor control products have been manufactured since 1960 and are still in use extensively for ANSI / NEMA applications globally. ABB's new units are designed to operate seamlessly with existing customer equipment, which may be up to 60 years old.

The overall structure of these units is very similar to existing unit designs with a steel frame, rear facing bus stabs to engage existing vertical bus, and jack screws to mount the unit in the existing vertical section. The SACE® Tmax XT® circuit breaker utilizes a new mounting bracket, door and simplified operating mechanism. Note that the door is right-hinged and mounted to the unit, matching the original 8000-line design. A rotary operating handle is used, like the original 7700-line design.

Note: For additional features and ratings not available in the Fastrac configurator at [empower.abb.com](http://empower.abb.com), contact the Mebane, NC, factory at +1 888 434 7378 for Tier 3 quotations. Requisition engineered units are available to fulfill those needs.

Utilities operating nuclear power plants have a large installed base of 7700-line and 8000-line, and Spectra™ motor control centers (MCCs) that reached the phase of obsolescence. Customers require an upgrade solution that maintains the same fit, form and function as the original equipment, and ABB retrofits offer all of that. These new buckets have been nuclear qualified by ABB and serve as a direct replacement for the original units. They extend the life of the existing installed base and reduce the risk of failures.

For starter units, other major electrical components remain unchanged, including: 300 series starter/contactors, control power transformer (CPT), relays, fuse blocks, and terminal blocks.

GEIS branded pilot devices are being discontinued. New units use ABB pilot devices. Also, the incandescent pilot light option is being discontinued. All pilot lights use LED technology.

02  
SACE® Tmax XT®  
circuit breaker



## Benefits

- Spare parts availability
- Reduced risk of failures
- Easy to install
- No change in licensing requirements
- Easy to make diagnosis
- Less expensive than new gear
- Easy to maintain

## Values

### Emotional drivers

- + Sustainability
- + Life extension
- + Reliability



### Revenue drivers

- + Uptime
- + Reliability
- + Brand value



### Cost drivers

- + Lifespan extension
- + Spare parts availability
- + Improved uptime



### Fast and easy replacement of existing units

New SACE® Tmax® XT-based units are functionally equivalent to existing units with Spectra Series or other disconnect devices. Once field wiring is disconnected, the old bucket is removed by loosening the jack screw. Installation is the reverse of removal. The new bucket stabs into the existing vertical section, it is bolted in with the jack screw, and field wires are terminated.

For repairs at an operating facility, replacement of an entire unit is the fastest option to return the downstream load to service.

Additionally, when reconfiguring loads in a facility or modernizing an entire MCC lineup, new units available via the Fastrac configurator at [empower.abb.com](http://empower.abb.com) can be a cost effective option.

When considering a replacement alternative, site labor is extensive to:

- Disconnecting all field cabling and pulling it from the lineup
- Disassembling and removing the existing lineup
- Assembling and installing a new lineup
- Testing and commissioning the new lineup
- Repulling and terminating all cabling

An upgrade can be accomplished much faster and less invasively by simply removing and replacing each unit.

When considering a large purchase of new units in the USA, please inquire about ABB's "Quick Start Buckets" program. For volume purchasing, a discount up to 50% off is available.

03 & 04  
6 & 12" Feeder Unit  
with SACE® Tmax XT®  
circuit breaker

