

## Motor Control Center Bucket Replacement

### Background

From addressing your obsolescence issues to the latest groundbreaking technologies in the nuclear industry—Westinghouse can build it. Spanning decades in operating experience, Westinghouse has developed the latest innovations in Motor Control Center (MCC) buckets while bringing aging power plants out of obsolescence with retrofitted replacement buckets.

Recently unveiling a groundbreaking new design for motor control centers, Westinghouse is applying the latest technology to obsolete components found in aging nuclear power plants reaching the end of service life. Although many components used in MCC buckets are no longer available, Westinghouse has proactively managed obsolescence challenges in order to mitigate the risk of missing an end-of-life replacement.

In the spirit of Delivering the Nuclear Promise, Westinghouse provides a more cost-effective and efficient solution to replacing individual obsolete components within a bucket. Complete bucket replacement can afford reliability and performance for years to come.

### Description

Westinghouse designs, qualifies and modifies MCC bucket replacements to meet your original qualification basis in mild or harsh environments. The industry-leader in tackling obsolescence challenges, Westinghouse is able to retrofit numerous non-original Westinghouse designs. In addition, Westinghouse has the capability to reverse engineer custom MCC designs no longer available. As the original equipment manufacturer (OEM), Westinghouse continues to supply 5 Star and Type W Series motor control center replacement buckets. Westinghouse is the only supplier with the ability to build MCC buckets identical to the original Westinghouse environmental qualification.



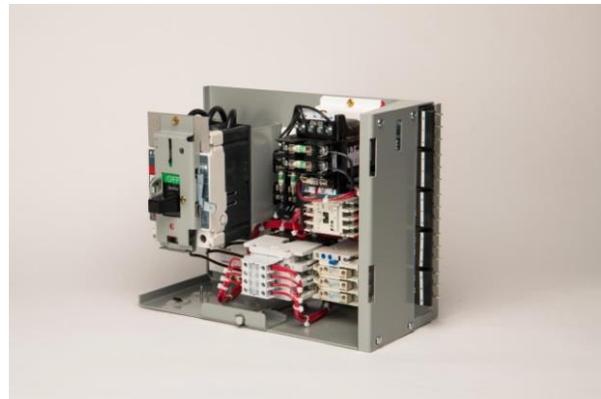
*MCC replacement buckets suitable for a number of current designs*

### Benefits

Drop-in replacement MCC buckets require minimal engineering time upon delivery and installation onsite, as well as reduced maintenance costs.

Minimizing time from unloading dock to installation, Westinghouse has the ability to:

- Set breakers and overload relays specific to your plant's requirements.
- Provide terminal block numbering and labeling specific to your plant's requirements.
- Offer field advisory support during installation.
- Provide pre-wired and labeled field wiring harnesses for auxiliary connections.
- Offer witness testing to eliminate the need for onsite duplicate testing.



*MCC replacement bucket suitable for GE7700*

Applicable components undergo seismic, environmental and electro-magnetic compatibility qualification testing at the Westinghouse manufacturing facility in order to ensure that parts will perform their intended function.

## Deliverables

Westinghouse customers will receive a like-for-like MCC bucket with performance and test data as well as a bill of material, wiring diagram and technical manual upon final delivery. Test and performance data include a certified factory acceptance test report and qualification data package.

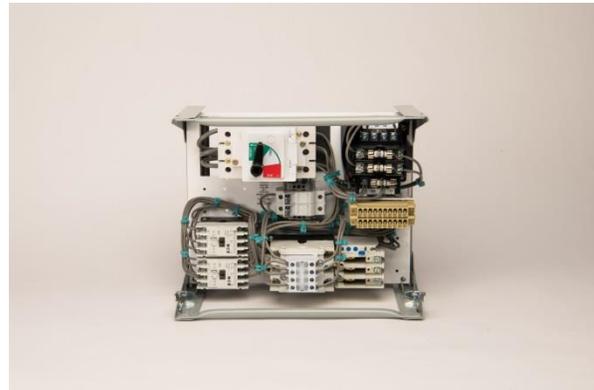
## Experience

Westinghouse MCC replacement buckets are tested through our rigorous 10 CFR 50 Appendix B quality assurance program.

- Westinghouse has successfully delivered replacement buckets for both PWR and BWR nuclear power plants.
- Westinghouse is the OEM and current supplier for industry-standard 5 Star and Type W Series motor control centers.
- Westinghouse performs dedication testing for every component within each MCC bucket.
- Exclusive access to original design drawings allows for quick and accurate response to any application issues that might arise.
- Westinghouse MCC replacement bucket enhancements and upgrades have developed more than 40 years of operating experience as an original equipment manufacturer.
- Westinghouse engineers and technicians have more than 50 years of experience in providing electrical equipment for safety-related applications in the nuclear industry.



*MCC replacement bucket suitable for ITE 5600*



*MCC replacement bucket suitable for Klockner Moeller Series 170*