

Motor Control Centers

Background

Westinghouse originally supplied Type W, 5 Star or 2100 Series motor control centers (MCCs) to power plants for safety-related and nonsafety-related balance-of-plant (BOP) applications. These MCCs were designed to control various loads, most typically motors, as well as provide thermal and instantaneous overload protection. Westinghouse provides new MCC components and upgrades configured to the specific utility's original order specifications for both Class 1E safety-related and nonsafety-related applications.

Description

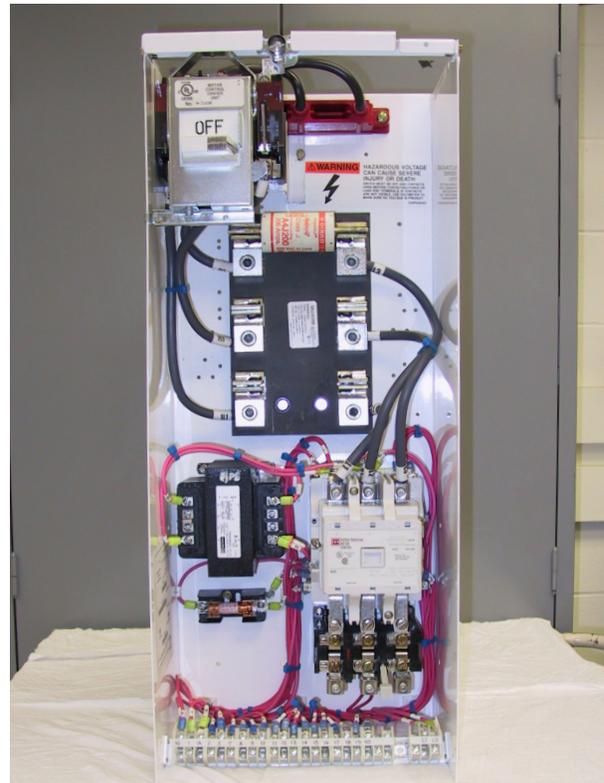
When a customer orders an MCC component, bucket assembly or entire MCC, Westinghouse procures the product from the original equipment manufacturer. The item is then commercially dedicated for safety-related applications.

The replacement MCC components and assemblies are certified to meet the plant-specific original qualification documentation parameters. Westinghouse can also refurbish existing MCC bucket assemblies for customers and supply entire motor control centers. The components that can be supplied as safety related include A200 starters, contactors, overload relays, relay heaters, stab assemblies, operating mechanisms and Series C upgrade kits, used to upgrade an original classic breaker to a series C breaker in an existing MCC.

Benefits

The MCCs, individual components, assemblies and refurbished MCC bucket assemblies are form, fit and function replacements that meet the original qualification standards. The replacement hardware meets or exceeds the quality of the original design and operating requirements.

Westinghouse also maintains the qualification for all MCC assemblies and components by performing periodic seismic testing, periodic testing of critical characteristics, and reviewing design changes and industry operability data. Seismic sensitivity is addressed during the design review process and periodic testing.



MCC three-bucket assembly

Since Westinghouse maintains strong technical ties with the manufacturer, it has access to current design drawings and manufacturing information. If MCC components become obsolete and a direct replacement is unavailable, Westinghouse's Service Center in New Stanton, Pennsylvania (USA) can provide the customer with a replacement component or an upgrade package with a qualified replacement solution and technical support.

Experience

- Westinghouse, with its extensive experience in the nuclear power industry and access to the original Westinghouse plant design documents, has built and sold several MCCs to utilities.
- Westinghouse retains the rights to the original design and qualification documentation associated with Westinghouse-designed plants. If different replacement components are required, Westinghouse can provide a qualification basis that ties directly back to the original qualification.