



MCC Bucket Upgrade

Customer Profile

The end customer is a nation retail grocery chain with large distribution centers supporting local stores. In the Houston area the distribution center had been supporting the area for over 40 years with electrical equipment dating back to the beginning of operation.

Problem

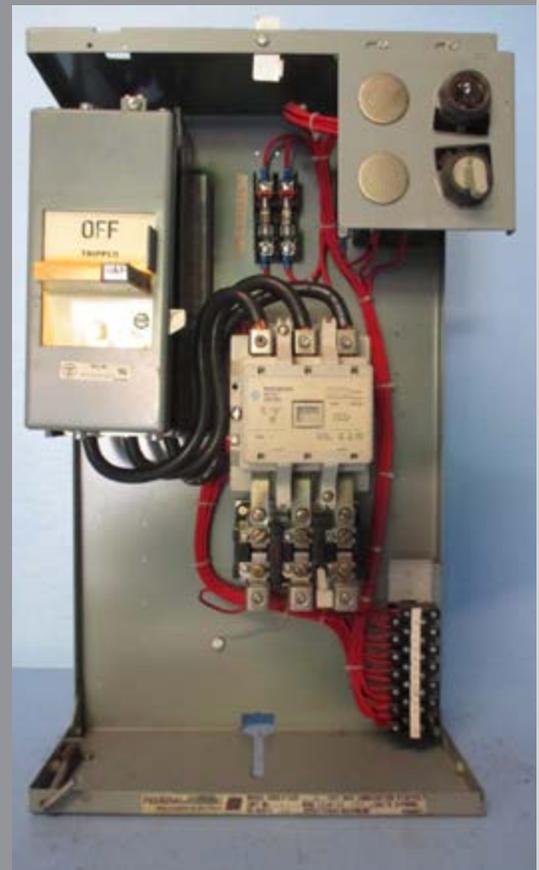
After initiating a capital project to refurbish the facility IER was contacted by a national electrical contractor bidding on the project to discuss options for minimizing overall cost and lead-time. A key component of the project included a large line up of Federal Pacific Motor Control Centers containing over 150 motor control buckets. The end user was unable to obtain new OEM components for the MCC and maintenance had become a problem due to component obsolescence. Additionally the potential downtime for converting the system to a modern MCC would impact the overall cost of the project significantly.

IER Solution

Compared to others competing for the project, IER suggested that the contractor utilize IER's MCC Retrofit program to help update the system and minimize the cost impact of overall downtime. The MCC Retrofit program provides the customer with the opportunity to retrofit the buckets with modern components by stripping the bucket down to bare metal, re-powder coating the bucket, and installing all new components, wiring, and controls. IER also provides new doors and covers to match the changes to the breaker handle mechanism when needed. Lastly the program allows the customer to retrofit the buckets in batches, starting with spare bucket not in service, thus eliminating the need for system downtime.

Customer Results

In the end the contractor and IER were awarded the job based upon overall cost saving and turn around time. As a result the end user did not encounter downtime due to the MCC, by eliminating the MCC downtime requirement the contractor was able to build in considerable flextime and meet the customer's scheduled completion date with ease.



Technical Data

System Technical:

Existing MCC:	Federal Pacific
Voltage:	480V AC
Motor Power:	NEMA Size 1 Starters

Bucket Data:

Bucket Size:	6" Stab-In
New Breaker:	GE TED Series
New Contractor:	Siemens Sirius Line
New Overload:	Siemens Sirius Line
Pilot Devices:	Siemens Sirius Line (Start, Stop, Run Light)



Retrofit bucket in line up with original buckets.



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Original MCC bucket



IER Retrofit bucket