



**ELECTRICAL EQUIPMENT
AND CONTROLS**

MCC Bucket Upgrade



Customer Profile

The end customer is a nationwide company specializing in importing and exporting of agriculture products such as corn, milo, flour, ect. The Gulf Coast facility specializes in loading and unloading of ships and trains as products moves in and out of the country. The facility was built in the mid to late 60's and has had very little modifications or changes to it since that time.

Problem

The end-user has begun a nation wide reinvestment program for aging facilities in order to extend their life another 20 to 30 years. The Texas facility selected large exhaust and ventilation system to upgrade first in order to reduce electrical and maintenance cost. After doing so it was necessary to upgrade the electrical motor control in order to maximize efficiencies. The existing GE 7700 series MCC's being utilized for motor control was determined too cost prohibitive to replace due to labor and downtime. Additionally the end user also has a new national initiative to utilize Siemens as the primary electrical provider.

IER Solution

IER developed a solution to integrate Siemens G120 drive into the existing GE 7700 series MCC. In order to do this IER designed and built a custom door to accommodate the spacing of the new drive as well as the fan and filter kits required for ventilation in the dusty environment. This work was offered turn key with design, fabrication, and final assembly accomplished in-house by IER.

Customer Results

The result of this was a solution for the end-user and distributor that dropped in place of the existing MCC bucket and utilized the existing structure and infrastructure. Start-up and parameterization of the Siemens drive was completed within the hour of installation. The customer achieved major project saving by retrofitting the existing system as well as on going energy savings through optimizing the overall system.



Technical Data

System Technical:

Existing MCC:	GE 7700 Series
Voltage:	480V AC
Motor Power:	60 HP

Bucket Data:

Bucket Size:	36" Stab-In
Bucket Disconnect:	GE Breakers & Handle Mech.
Drive System:	Siemens G-120
Accessories:	On/Off Switch Red Run Light Fan/Filter Kits (qty 2) Drive Operator Panel ProfiNet Communication



5910 HAMBLEN DR. HUMBLE, TX 77396
281-441-9321 888-440-9321 - HOUSTON
210-590-9656 866-590-9656 - SAN ANTONIO

