

# Case Study – Electrolytic Capacitor Replacement

CHB replace medium voltage drive power cell electrolytic capacitors. Electrolytic capacitors have a limited lifespan which is dependent on a several different factors. Typically, electrolytic capacitors are the first components to fail in older (8 years or more) medium voltage drives.



Power cell exchange schemes can be implemented to routinely exchange power cells in the drive during each plant shutdown.

Refurbished power cells are exchanged with the oldest or next in line cells from the operating drive. The working power cells that come out of the drives are sent to CHB and all the electrolytic capacitors including the electrolytic capacitors mounted on the cell control board are replaced. The power cell is then fully functional, and load tested by CHB.

The refurbished power cells are returned with a full test report to the customer where they are in turn exchanged with the next cells in the cycle during the next plant shut down.

This exchange cycle keeps repeating during each plant shutdown ensuring that no cells ever have capacitors installed at an age where the risk of failure is at intolerable level to the customer.