MAHLE Engine Components USA in Atlantic, IA is a leading manufacturer of engine bearings and bushings.

MAHLE recognizes the importance of data acquisition and scalable HMI systems. However, because of the high number of stand-alone processes and the segmented nature of their plant operations, they discovered numerous challenges in implementing a SCADA/HMI package that could become the plant standard. One of the most formidable challenges was communication with legacy Omron PLCs in their wastewater treatment facility.

EAD Control Systems was hired to put all the pieces of the puzzle together. EAD designed and installed a redundant WinCC server application. This involved configuring both servers, designing and implementing the WinCC application and configuring an OPC server used to communicate with the Omron PLCs via a serial to Ethernet gateway. Additionally, the Web Navigator functionality was enabled and a web server was configured to allow access across the plant network.

Working closely with MAHLE staff, EAD installed, tested and commissioned the system in only a few days and without taking the wastewater process offline.