

## CASE STUDY

# Fortune 50 Automotive Manufacturer Assembly Plant Central Cooling Upgrade: A Fast-Track Solution Delivered by MCFI

## CHALLENGE

A Fortune 50 automotive manufacturer needed an upgrade to the central cooling system at its five-million-square-foot assembly plant to maintain comfortable conditions for workers and ensure efficient equipment operation, including welding machinery that generated significant heat. The urgency was compounded by the approaching summer, which required the cooling system to be fully operational on an accelerated schedule.

To meet this challenge, the manufacturer partnered with Miller Industries, LLC to design, manufacture and install the chiller plant. Miller Industries selected Mission Critical Facilities International (MCFI) to assist with critical substations and electrical gear.

## SOLUTION

Miller Industries took the lead in designing, manufacturing, delivering, and installing the modular chiller plant. MCFI played a pivotal role by providing the necessary substations for the power infrastructure to support the plant. This included medium-voltage (MV) switchgear, substation transformers, and ARC-resistant UL-1558 switchgear, all manufactured by Point Eight Power (PEP).

Miller Industries and MCFI collaborated to ensure that the gear was delivered within the tight schedule. MCFI's electrical expertise contributed to reducing the delivery timeline by six months. This allowed the plant to be completed in just 12 months, significantly ahead of the typical 18-month schedule for a project of this magnitude.

## BENEFITS

- **Reduced timeline by 6 months** (from 18 to 12 months)
- **Primary power infrastructure** provided by MCFI, including MV switchgear, substation transformers, and ARC-resistant switchgear
- **Enhanced safety** with UL-1558 switchgear manufactured by PEP

## RESULTS

MCFI's contribution to the project's success:

- The plant was fully operational before the high-demand summer months, ensuring optimal working conditions and machine efficiency.
- Enhanced safety and reliability were achieved through the use of ARC-resistant switchgear.
- The automotive manufacturer experienced minimal disruption to its operations, as the project was completed six months ahead of schedule, supporting seamless plant operations.

## ABOUT MCFI

Mission Critical Facilities International (MCFI) provides reliable power, cooling and infrastructure solutions, ensuring smooth operations and safety in demanding environments.

