



PROJECT:

Collin County Justice Center/Jail



PROBLEM

Expert Services was tasked with replacing all the Justice Center chilled water building automation control valves on all the air handlers serving the entire facility. This is a Justice Center/Jail that is currently at maximum capacity. Per the Jail Commission, certain area temperatures must be maintained 24-hours a day in this facility. We were awarded this project in April, with the ambient temperatures beginning to rise. The task was “how do we shut down Mechanical HVAC systems and still maintain required operating temperatures in this facility.”

SOLUTION

Expert Services got to work with the right solutions and met with the facilities personnel at the Justice Center to discuss those solutions. We noticed during the original job site walk the building had the capability to run 100% out-side air in the building. So, we first recommended that the project be put on hold until the cooler weather would allow us to utilize the out-side air and maintain the Jail Commission required temperatures. This was agreed upon by all parties, so the project was put on hold until first part of November.

RESULTS

Expert Services began in early November with the replacement of the chilled water building automation control valves. The original project day by day timeline schedule was bettered by our Expert Service team members. We were able to shut down one bank of air handlers at a time, freeze the main lines and replace the chilled water building automation control valves. We were able to get on average (2) Chilled Water valve replacements completed every 3-days. At no time during this scope of work being performed did the Justice Center/Jail temperatures rise above or drop below the Jail Commissions requirements. The project was a success and Expert Services has now since this project have been invited back for more upcoming projects.