

# Trane CVHF Centrifugal Chiller MCS Controls Retrofit Case Study



## Facility:

Major Industrial Wood Pulp Mill

## Repair Parameters:

Remove existing OEM controls on two 800ton chillers & obsolete workstation and install new chiller controls, including temperature sensors, pressure transducers, vane actuators, and directly connecting the new control panels to the plant wide process control system eliminating the intermediate workstation

## Repair Challenges:

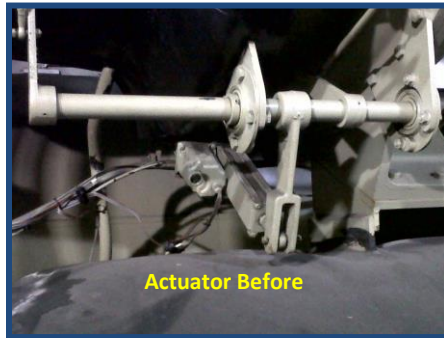
Had to keep one chiller running to maintain continuous plant operation



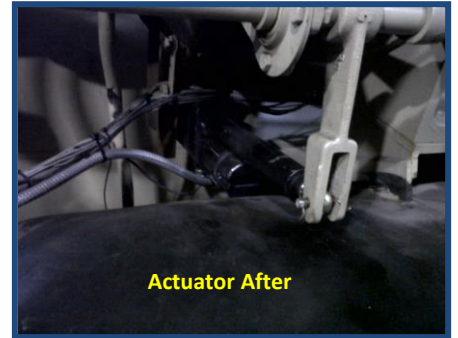
Intermediate Graphics Terminal Removed



Direct Connect to Plant Wide Controls



Actuator Before



Actuator After

## Repair Time / Constraints / Opportunities:

Customer was looking for a solution that they could not get from the original equipment manufacturer. The independent solution ThermaServe provided for the customer reduced and simplified the operation and provided them a reliable product with the capability of in-house support, as a non-proprietary solution. We were also able to provide the customer with more points to monitor in their control system, essentially providing a constant chiller logging capability. This visibility now enhances their operational support.



Chiller Controls Before



Chiller Controls After, in NEMA 4 Cabinet



Final Chiller Control Touch Screen

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