IDOC Correctional Industrial Facility

01. Challenge

Indiana is known for its very hard water and Pendleton, IN is no exception. CIF, an Indiana State Prison, de-limed its Aerco steam heaters every 3 to 4 weeks for many years. In the past, salt type softeners were used. They slowed the scaling process down, but did not eliminate scaling in the heaters or plumbing systems. Maintenance of the softeners along with the cost and manpower to distribute salt to each softener caused them to be abandoned.

02. Solution

They were experiencing high maintenance/replacement of water heaters, piping, mixing valves, hot water recirculation pumps and shower and sink valves. A decision was made by IDOC to install EasyWater No-Salt Conditioners in two dormitories.

03. Results

At the time the EasyWater No-Salt Conditioners were installed in C and D dorms, IDOC decided to replace the old Aerco heaters with identical new heaters. The heaters were opened for observation every several months and after 17 months; the copper coils were as clean as the day they were installed. (see above pictures) In addition, existing lime scale was removed from the plumbing, mixing valves and recirc pumps. IDOC decided to purchase additional No-Salt Conditioning systems for CIF as well as other IDOC facilities.