

Fort Sill United States Army Base OneFlow® Goes to War with Ultra-Hard Water

Industry:
Government

Category:
Water Quality

Location:
Lawton, OK

Installation:
OneFlow



“Fort Sill will reap the benefits of zero water discharge and no salt expense for years to come.”

*- National sales manager of water treatment products at Watts Water Technologies
Steve Callahan*

CUSTOMER: Fort Sill United States Army Base

SCOPE: Eliminate use of chemical additives, reduce water discharge and wastewater and use a salt-free system if possible.

CHALLENGE: Water at Ft. Sill measures 27 grains of hardness per gallon. Each of the barracks experience domestic water use spikes up to 632 GPM.

SOLUTION: Watts OneFlow® Anti-Scale Systems, Model #OF1665-75 x 12

RESULTS: Treatment a success; zero water discharge + no salt expense.

In the 1970s, Initial Entry Training (IET) “starship barracks,” were constructed on Army bases nation-wide, including Fort Sill. The facilities acquired the nickname because they’re completely self-contained with living quarters, classrooms, mess halls and latrines all under one, star-shaped roof. Many of the starship barracks are being renovated, chiefly to reduce energy consumption. Each barracks holds 500 troops – at that number; high-quantity water use is inevitable – with spikes up to 632 GPM.

Hard water has plagued maintenance crews at Ft. Sill since the addition of indoor plumbing. While water is considered hard at 10 grains of hardness per gallon, Ft. Sill’s water measures in at 27.

Archer Western Contractors knew the water treatment system must handle a huge volume while being cost effective. With these parameters, they chose the Watts OneFlow® anti-scale system. The project called for 12 OneFlow® tanks and four and eight-inch Watts model 957 RPZ backflow preventers to protect the domestic water system. Strainers installed upstream of the RPZs help keep debris from getting into the OneFlow® system and backflow preventers.



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