

NAMWUA MEMBER PROJECTS

City of Cottonwood

The city spent in excess of two million dollars prepping the sites for arsenic treatment which involved extensive amounts of re-piping and electrical work before remediation equipment could be brought onsite. Currently there are three coagulation /filtration units and fourteen ion exchange units in operation which treat all of the existing wells which require treatment except for the new Mesquite Hills well, not yet online.



The variable frequency drive project involved installing VFDs on all well pumps to avoid water hammer and compensate for a phase imbalance problem APS has at most of the well sites. Recently, Danfoss variable frequency drives (VFDs) were installed on the Verde Village booster pumps which can be retrofit to control the existing across the line booster pumps and avoid having to remove the existing pumps and avoid installing a Grundfos Booster Pac which is significantly more expensive and requires a larger area for installation. The VFDs not only have reduced power consumption but have resulted in a significant reduction in water line leaks because the VFDs maintain a constant pressure and no longer have the 10 to 15 psi pressure variation inherent in across the line booster pumps. As an added bonus, a rebate check in excess of \$25,000 was recently received from APS because of the energy efficient VFD's.

