

Calibration Evolution and Revolution-A Case History

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ABSTRACT

The City of Cape Coral, Florida's second largest city operates 2 brackish water reverse osmosis (RO) plants with a combined production capacity of 30 MGD. There are over 300 pieces of individual process and analytical instrumentation which require calibration and/or verification that must provide an asset trail of traceability within tight parameters for regulatory compliance. Being one of the oldest plants in continuous operation, staff has had to grow with technology and regulatory changes while maintaining reasonable OEM costs for drinking water in the city.

By transitioning to a streamlined process documenting calibration system and software, Cape Coral has been able to monitor performance within very tight tolerances and provide traceable documentation required for monitoring requirements. This presentation will touch on the evolution of some methods used for calibration and verification and why it is critical to plant operation and safety.

ABOUT THE AUTHORS

Chris Caglioti is the acting chief operator and instrument-controls technician for the City of Cape Coral's North RO Plant. He is a class A licensed plant operator and an ISA CCST level I. He is a long time member of Florida Water and Pollution control Operators Association and the Southeast Desalting Association Chris has been with the City since 1988. Contact: ccaqliot@capecoral.net