

Modernizing Water Infrastructure. Protecting Critical OT Cyber Physical Systems.

For over four decades, UTSI International has worked alongside operations, IT, and field teams at water authorities across the country to build practical, prioritized modernization roadmaps tailored to unique operating environments and keeping systems safe and secure.

Recent Cyberattacks on water plants across the U.S. revealed utilities exposed and out of compliance:

By the Numbers

12	**states with reported incidents**	**100+**	**reported incidents**
30+	**municipal water systems in Minnesota**	**70%**	**of water systems are out of compliance (according to federal studies)**

Reported impacts:

- Boil water notices
- Loss of pressure, and in some locations flooding
- Sustained manual operations after loss of automated control

Trusted by Leading Water Authorities

Partnering with regional and municipal water utilities, including Gulf Coast Water Authority (GCWA), WCID 110 MUD, Kingsbridge MUD, and Montgomery County MUD Nos. 8 & 9.

UTSi® INTERNATIONAL

Proven 3-step OT Cybersecurity Framework that Protects Water Utilities



INFRASTRUCTURE ASSESSMENT

Identify any exposures across six architectural layers without interrupting service.

- **Zero Operational Impact:** Passive monitoring on live production systems.
- **Comprehensive Site Assessment:** Physical security, wireless access, network perimeter, SCADA/HMI, industrial protocols, PLCs/RTUs, and IoT/IIoT devices.
- **Actionable Roadmap:** Prioritized findings to maximize safety and operational resilience, while making efficient use of available budget or grants.



SOLUTIONS DEPLOYMENT

Turnkey engineering to close gaps and harden existing systems.

- **IT/OT Segmentation:** Isolates SCADA from enterprise IT, wireless, and public networks.
- **Perimeter Defense:** Next-gen firewalls with industrial deep-packet inspection, network cloaking and secure remote access.
- **Hardening & Secure Access:** Hardened HMIs and switches with MFA-secured VPN access, session logging and auditing.



MANAGED SECURITY SERVICES

24/7 monitoring and compliance alignment for long-term resilience.

- **Security Management:** Ongoing firewall, VPN, and technician access management.
- **Detection & Escalation:** Real-time monitoring, anomaly detection, and alert triage with guidance for local operations.
- **Compliance & Board Reporting:** Monthly reports aligned with EPA, AWIA, TCEQ, and NIST.
- **Incident Response:** Optional retainers for emergency deployment.

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Client Deliverables

Examples of recent modernization and cybersecurity frameworks delivered for water authority clients:

Standardized Architecture Roadmap:
Developed a modernized SCADA architecture roadmap fully aligned with ISA/IEC 62443 and NIST SP 800-82 standards.

Cybersecurity & CIRP Framework:
Executed a comprehensive cybersecurity gap analysis and established a formal Cyber Incident Response Plan (CIRP) framework.

Network Segmentation & Access:
Implemented robust network segmentation and multi-factor authentication (MFA) recommendations across critical operational layers.

Field PLC & Comms Strategy:
Defined a field PLC standardization strategy alongside targeted communications infrastructure improvements.

High-Performance HMI & Alarms:
Completed alarm management rationalization and introduced High-Performance HMI standards to reduce operator fatigue.

Long-Term Sustainability Plan:
Established ongoing resilience strategies, including annual Table-Top Exercises (TTX) and third-party architecture reviews.

COST SAVINGS
UP TO

80%
with our time to deliver and cost of delivery (with proprietary process and tech stack)

90%
cost to implement and move into monitoring state

UTSI INTERNATIONAL

Why UTSI International

Over 4 Decades of OT Experience:

Deep roots in SCADA, ICS, and critical infrastructure modernization for water authorities.

Tailored Engineering:

Customized roadmaps developed directly with your operations and field staff.

Full Lifecycle Delivery:

Provide expertise in assessment, deployment and maintenance.

Vendor-Neutral Strategy:

Objective recommendations built around your existing assets, not proprietary lock-in.

SPECIAL OFFER

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30-Minute OT Cybersecurity Quick-Check

Contact us today for a candid, no-obligation evaluation of:

- Immediate exposure risks (network segmentation, remote access, legacy PLCs)
- Regulatory documentation & audit readiness
- Recommended first-phase modernization steps

Get in Touch:

info@utsi.com
www.utsi.com
+1 (281) 482-8787