



Raw Water Piping Programs

GSE TrueNorth's Raw Water Program services can assist utility owners in developing a formal and effective Raw Water Program. Our team also handles implementation and strategic-asset management plans.

Every Raw Water Piping Program is developed to track and trend degradation within above ground piping, for safety- and non-safety-related raw or service water systems. The highest priority piping is safety-related and incorporated in NRC Generic Letter 89-13 programs, based on expectations from GL 89-13, *Service Water Systems Problems Affecting Safety-Related Equipment*, which consist of:

- Performance testing of Heat Exchangers
- Verify systems which have Single Failure vulnerability
- Inspect on a "regular basis" applicable system piping
- Reduce human error in operation, repair, and maintenance of applicable systems

Our GL 89-13 Raw Water Piping Program includes scope evaluation, and risk ranking of included lines or segments based on the consequence of failure and overall corrosion susceptibility. The formal evaluation process results in a populated database and associated color-coded drawings depicting the in-scope lines and associated risk parameters. These results are then used to provide a short and long-term strategy to mitigate degradation and maintain system integrity.

Choose GSE TrueNorth for Raw Water Program services, including:

- Procedure / Instruction Development, revision or inclusion
- Risk Ranking and Prioritization Verification and Validation
- Risk Ranking Database Development
- Development of Inspection Plans
- Color-Coded P&IDs (Flow Diagrams)
- Performance of Program Self-Assessments
- Program Owner Consulting Support
- Program Owner Mentoring
- On-Site Inspection Support
- Development of Long-term Mitigation Strategies



SME FOR PROGRAM LEADERSHIP

The GSE TrueNorth Raw Water team includes top industry professionals with over 35 years of utility power generation experience. Our team members have served leadership roles for EPRI Balance of Plant Programs that developed industry guidance and reference documents associated with control of degradation of plant piping systems.

TO LEARN MORE OR SCHEDULE A CONSULTATION WITH OUR SMES CONTACT:

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ABOUT GSE TRUENORTH

Engineering. Thermal performance. Leading-edge software. These are the heart of GSE TrueNorth's offerings for the nuclear industry. As part of GSE Solutions group, GSE TrueNorth supports operational excellence in the power industry. We leverage decades of specialized expertise in plant thermal performance and regulatory engineering programs that refine and update systems, ensure compliance and optimize performance for our clients.