

Engineering Solutions for the Examination and Assessment of Utility/Facility Above Ground and Buried Piping Systems

As piping systems age, the need for better surveillance and maintenance initiatives intensify for all commercial and industrial facilities. Altran Solutions' engineers and technical experts are recognized in this field for conducting small and large-scale water system and piping projects. Our comprehensive raw water and buried piping system assessments are specifically tailored to our clients' needs. We know piping, coatings, joints and fasteners and know how to leverage the talents of our Materials Science & Engineering Center when a problem can't be easily solved. Altran Solutions' approach and technical framework enables our clients to get to the solution faster before any failures occur.

The Need for Examination

When considering the age of many power generation, commercial and industrial facilities, the need for examination and assessment of Buried Piping systems, and in particular raw water systems, is essential. Realizing the high cost of repair or replacement, the loss of production and the potential significant environmental ramifications of piping system failure, now is the time to take a proactive approach towards this area of facility maintenance.

Buried piping can comprise a large portion of a facility's critical water systems. The internal and external corrosion of buried piping sections could have significant risk consequences if effective inspection and monitoring is not properly administered. Taking a proactive approach towards preventing failure in these systems provides the owner with peace of mind and allows sufficient time for adequate replacement planning should inspection results dictate.

Altran's Related Industry Experience

Since our founding in 1986, Altran has developed a wide range of engineering services in the areas of Raw Water Systems Engineering, Flow Accelerated Corrosion engineering, Coatings, Aging Management, Structural Mechanics and Metallurgy. Additionally, we employ staff members with expert-level experience managing systems, operations and maintenance. Our detailed project experience is available upon request.

The Altran Approach

Altran has formulated a stepwise approach for examining, assessing and prioritizing sections of buried piping susceptible to corrosion and failure. Altran uses the most recent and prominent industry resources available and has kept informed of industry progress in the area including EPRI issued guidelines.

Our approach includes the following tasks:

- Collection of necessary data (i.e. drawings, assessments, reports, interviews, etc.).
- Determination of inclusion/exclusion of various sections of pipe in the scope of the Buried Piping Program.
- Selection of indirect inspection techniques.
- Analysis to determine susceptibility and consequence related to failure/leaks.
- Evaluation and ranking of pipe sections according to its relative risk of failure.

The results of these objectives are documented in our unique and comprehensive **Buried Piping Manager Database** which, when turned over to our Customer, can serve as the primary tool for long term inspection and monitoring activities.

For more information on this capability,
Please contact us at (617) 204-1000 or
via e-mail at sales@altransolutions.com.