



ESCON DHVANI
HIDDEN CORROSION INSPECTORS

Waygate Technologies

a Baker Hughes business



Advanced service with Tank Annular Plate Scanning (TAPS)

If unseen and unchecked, corrosion in the critical annular plate of above ground petrochemical storage tanks can result in devastating injury and loss. Until now, attempts to detect deterioration in this critical region were time-consuming, disruptive, hazardous and limited to qualitative assessment.

Today, Waygate Technologies, has changed all that for producers in North America and Europe through a revolutionary online Tank Annular Plate Scanning (TAPS) service. As the exclusive provider of the service in these markets, Waygate Technologies has taken the guesswork out of tank evaluation and is saving producers millions by providing advanced analytics that allow for scheduled, coordinated shutdowns rather than crisis response.

Short range HOMC guided waves make the difference

Waygate Technologies service employs high order modes cluster (HOMC) guided waves. Unlike conventional inspection

regimes which use magnetic flux exclusion (MFE) or saturated low-frequency eddy currents (SLOFEC), HOMC is undeterred by the typical pitfalls of other non-intrusive methods. The technology is unaffected by the weld toe, has virtually no dead zone, does not discriminate between top and bottom flaws and is highly sensitive to sharp and localized corrosion, cracking and pitting within 6-12 inches of the tank's interior.

Scanning without limitation

At the heart of the cost-effective Waygate Technologies TAPS service is a proprietary robotic scanner that expedites testing while meeting industry requirements. While the size of the chime is a concern for most external Annular Plate inspection technologies, Waygate Technologies system can handle the work on chimes as small as 25 millimeters. Field tests conducted worldwide have validated the efficacy and value of the TAPS technology.

Waygate Technologies relies on sound physics and the latest technologies for assessing annular plates. But, science and technology are not the only differentiating factors. Each Waygate Technologies inspector maintains Association for Non-destructive Testing (ASNT) 351a, level two certification. This ensures that the people delivering service are as good as the technology they're using.



Benefits

- Safety – Non-destructive, non-invasive inspection
- Efficiency – No downtime online inspection, no prep work
- Speed – Relatively instant data—most tanks completed in 2 days
- Planning – Schedule downtime and prepare for a physical examination
- Accuracy – Unaffected by weld toe or highly localized corrosion

About Waygate Technologies

Waygate Technologies, a Baker Hughes business (formerly GE Inspection Technologies), is an industrial inspection solutions company and the world leader in non-destructive testing (NDT). Today, hundreds of brands in the automotive, aerospace, electronics, energy, battery and additive industries trust our technologies to ensure safety, quality and productivity. Our business offers a broad portfolio of award-winning

solutions in industrial radiography and computed tomography (CT), remote visual inspection as well as ultrasound and eddy current. We help customers to drive their digital transformation by applying state-of-the-art data and analytics to their assets and processes for best-in-class insights. Headquartered in Germany, the company has offices all around the world and employs over 1,700 experts and dedicated professionals. Inspection starts here.

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