



LEIGHTON O'BRIEN

INSTALLATION ASSURANCE PROGRAM

PRE-BURY AND POST-BURY TESTING



With today's reformulated fuels with low sulphur and ethanol, perfectly tight storage systems are critical to prevent water ingress that causes numerous modern maintenance issues including rapidly multiplying biological activity, accelerated corrosion and contaminated product unfit for sale.

Of course, leakage always remains front and centre for storage tank operators. Our experience shows that 90% of sites that pass a gauge test have an installation issue.

Most storage system issues including water ingress, small leaks and weeps from pipes, fittings and vents stem from the date of the original site construction. Once concrete is poured, these issues are often too difficult to address, resulting in costly maintenance issues over the life of the asset.

Leighton O'Brien's Installation Assurance Program conducts precision testing before concrete is poured. Any nuisance weeps and ingress sources are identified, repaired and eliminated before the site opens. And contractors always appreciate this confirmation on their work quality.

Our 2-stage pre-bury post-bury process guarantees a perfectly tight storage system, meaning zero water ingress, zero leakage, zero vapor loss from tank and line system breaches of any kind, and eliminates lower vapour emissions.



LEIGHTON O'BRIEN INSTALLATION ASSURANCE PROGRAM

Pre-bury and post-bury certification testing

- Identifies all potential integrity issues including water ingress, manway leaks, primary and secondary piping issues often missed by gauge tests
- All lines can be tested including product lines, vent lines and filling lines

US EPA-certified

- Testing accurate to 1 Pascal or 1/7000 PSI
- 100% of sites that pass our test remain leak free
- 3rd party independent testing

Minimises downtime

- Certified as fastest tank and line test: 3 mins for dry lines, 17.5 mins for wet lines
- No construction delays
- Instantaneous onsite feedback



CASE STUDY

International oil company conducted mechanical gauge pressure test prior to backfill on a large network of recently installed retail fuel sites.

Changing regulations in the region and concerns over environmental impact guided the customer to Leighton O'Brien to confirm the integrity of their product lines with a precision line test.

Precision integrity testing subsequently revealed a quarter of the 440 sites had leaks which had all

passed a gauge test at installation.

Almost 10% of their new product lines required excavation, repair and recommissioning, costing tens of thousands of dollars.

The problem could have been detected and repaired at a tiny fraction of this cost with a Leighton O'Brien Precision Installation Test during construction.



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