

TANK BOTTOM PLATE INSPECTION & CORROSION MAPPING

BACKGROUND

Inspecta International uses the *Floormap VS2i*, a computerised magnetic flux leakage system designed to detect, size and map underfloor corrosion on above ground storage tanks.

Key features include:

- High grade magnets to improve corrosion detection,
- Accuracy to within 3mm on 8 metre length,
- Maximum thickness of 12 – 20 mm (depending on mode)
- Combined defect profiling & amplitude analysis.
- Real time data acquisition,
- Automatic CAD Drawing
- Ability to add data from VT, UT, MT, Vac box.



PROCEDURE

1. Powerful magnets are used to generate magnetic fields in the test material.
2. Where there is a discontinuity, the field “leaks” from the plate, and is detected by a sensor in between the poles.
3. The leaks are then used to characterize any defects.
4. The motorized *Floormap VS2i* moves along the surface at 0.5m/sec creating a corrosion map.

REPORTING & ANALYSIS

- Colour coded CAD drawing of tank floor and individual plates.
- All data >20% loss of nominal is re-analysed to identify the defect.
- Additional NDT data added to create a comprehensive map (including annular plates).
- Subsequent data can be overlaid to identify corrosion growth.
- Statistics created for entire tank or individual plates.
- Patch plate design tool produces a repairs list of material and amounts.

Should you require further information regarding our Tank Inspection services, please contact Inspecta International by emailing technical@inspectaint.com, or contact your local office who will be happy to answer any queries www.inspectaint.com.



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