TANK INSPECTION SERVICES

Horizon Testing Inc is pleased to offer a full above ground storage API 653 tank inspection and consultation services. Our trained and knowledgeable API inspectors and technicians are available to perform both internal and external visual inspections in addition to various non-destructive testing inspections to fully assess the integrity of above ground storage tanks.

To obtain and provide the most valuable information to our customers, Horizon Testing has the following capabilities and technologies:

- C1 Spider Tank Crawler System
- Magnetic Flux Leakage Floor Scanner
- Phased Array corrosion mapping with PATH Scanner technology
- Conventional Ultrasonic Thickness surveys
- Tank Settlement surveys
- Magnetic Particle and Liquid Penetrant inspections
- Vacuum Box

C1 SPIDER SCANNER

Our tank crawler is an operator controlled ultrasonic robotic system which has the capability to acquire distance encoded thickness measurements up and around the tank shell wall at increments as small as 0.250". The thickness measurement information can be easily viewed with a "B" scan presentation and conventional Excel spread sheet and providing thickness data to assess the tank shell condition. The C1 spider crawler can be used internally or externally to a maximum height of 100'.

PHASED ARRAY TECHNOLOGY

Phased Array ultrasonics, using a corrosion mapping transducer with the PATH Scanner effectively determines the remaining thickness of the material being tested, in addition to creating a C scan image, thickness data obtained can be used in the reporting process. Horizon Testing uses this technology for floor scan verification, as well as corrosion mapping. The use of this technology is not limited to tank inspection, and can be used to detect the presence of internal corrosion in piping and pressure vessels.

MAGNETIC FLUX LEAK (MFL) FLOOR SCANNER

MFL floor scanning is a quick and efficient method of determining areas of underside floor plate corrosion. The floor scanner detects the presence of under floor plate corrosion, which is then marked and the damage is further assessed with ultrasonic Phased array technology.
TANK INSPECTION SERVICES

TANK SETTLEMENT SURVEYS
Tank settlement can be characterised as uniform, tilt planar, out-of-plane, or edge settlement. When settlement is beyond the standard limits as per API 653, repairs will be recommended. Settlement survey points are taken at a number of locations as detailed in API 653 Standard practice.

ULTRASONIC THICKNESS SURVEYS
Conventional ultrasonic thickness measurements are a useful method of determining the thickness of tank shell, floor, roof and nozzle material. Ultrasonic thickness surveys are performed in accordance with ASME V and API 653. The client may choose to expand their inspection needs where further evaluation may be required.

NON-DESTRUCTIVE TESTING
Tradition non destructive testing methods such as Magnetic particle and liquid penetrant inspections are efficient inspection methods used to determine the integrity of storage tank welds, attachments and areas of concern.

VISUAL INSPECTION
Often, a good visual inspection can provide excellent information about a tanks’ condition and areas that do, or will require further assessment. Internal and external visual inspections are performed in accordance with API 653 checklist standard procedure.

VACUUM BOX TESTING
Silverwing Vacuum Boxes are used to test for potential leaks on floor plate welds (flat box), and potential leaks in the shell to bottom circumferential weld (angle box). The vacuum box testing process is a quick method for testing and locating areas of concern.

For additional information, please visit our web site or contact one of our offices.

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