

HIGH FREQUENCY LONG RANGE ULTRASONIC TESTING



FOR ALL YOUR INSPECTION NEEDS



The Dacon developed High Frequency Long Range Ultrasonic Testing (HF-LRUT) was developed specifically for inspection of annular plates on Aboveground Storage Tanks, to verify metal loss both on the under and over side of the tank bottom – measuring externally from outside on the tank floor “toe”.

This allows detection of corrosion/metal loss, as well as measurement of the remaining tank floor thickness in the critical zone around the annular weld and in most cases all the way until the end of the annular plate.

Reporting is made by easy to read Ultrasonic B-scan imaging, clearly identifying where the defects are located, their width and the remaining wall thickness of the tank floor – all from the outside of the tank while the storage tank is in regular operation. The method has been initiated in conjunction with Dacon’s High Frequency Ultrasonic developments for Corrosion under Support and utilizes the same basic “easy to operate” ultrasonic equipment package.

The unit is battery operated for ease of field use and is fully operated by one single Ultrasonic Level II/III inspector. All data images are stored in the inspection tablet for detailed analysis and reporting.

The HF-LRUT is a new technology on the inspection market in 2011, but has already been audited by several of the world’s leading international oil companies.

HF-LRUT represents a new and quick method for verifying annular tank floor corrosion, without shutting down the storage tank.

