

Breakthrough innovations in tank floor scanning (TBIT Ultra) enabling extension of inspection intervals through world-class sensitivity & precision

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The storage of hydrocarbon or chemical liquids in above-ground storage tanks is an important element in the energy supply chain. A major concern for the integrity of a storage tank is the condition of the tank bottom. Whereby corrosion is one of the most common threats. Reliable and timely detection of time-dependent damage mechanisms, including corrosion, are essential for operator confidence in inspection findings, resulting repairs and determination of the Next Inspection Date (NID). ROSEN's TBIT Ultra floorscanner development was completed around this objective. Through best in class sensor spacing (1.6mm/0.06 inch), magnetic field strength and proprietary defect-sizing algorithms, defects as small as 10%t and 2mm/0.08 inch diameter can be reliably detected and automatically quantified – be-it topside, bottom-side, coated or uncoated, without a need for coating removal. With demonstration of the presence, or lack, of any small indications, operators will be enabled to obtain more precise corrosion-rate determinations and extend inspection intervals by repair of smaller defects. Empowered by technology, this new invention by ROSEN Group, ROSEN's TBIT Ultra is suitable for use in restricted areas, under pipes, heating coils, close to plate welds and annular plates. With a single TBIT up to 850 m2 of tank bottom can be inspected per day.