

Mud Drum Tube Inspection

Problem: Cracking behind the Tube Plate in MUD Drums

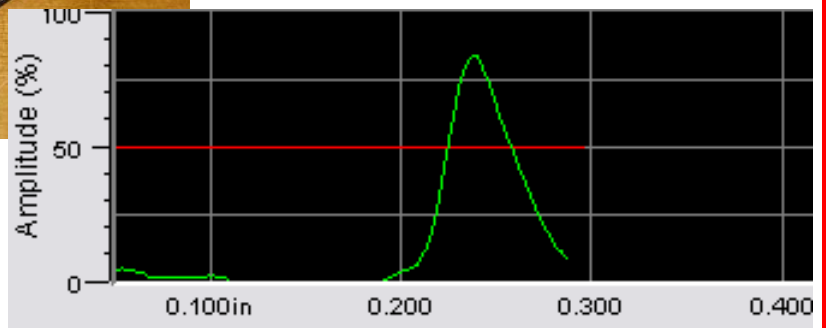
A special probe deployment device is available to detect and measure the length and depth of cracks initiating from either the ID or OD of Mud Drum Tubes. The probes contain transducers in orientation to detect cracks which have propagated in either the Longitudinal or Circumferential direction.

The nominal tube thickness is 0.150" and 25% (0.040") EDM notches were formed in the axial & transverse position on the both the ID and OD of the tube wall. Notch depths 0.010" and 0.020" X 0.500" X 0.005" Wide are used as the calibration notches.



The transducers is irrigated to maintain a uniform coupling condition for the duration of the test.

The technique operates at relatively low gain levels (36db) which enables the flaw indications to be clearly recognized.



Typical signal from an 0.010" EDM Notch.

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