SRUT Guided Wave Inspection with use of PA probe: detection of the pitting corrosion damages in the pipes under insulation

Thanks to the very powerful pulser / receiver providing the ability of composing the aperture involving all elements of the PA probe for the parallel firing / receiving the ISONIC PA instruments allow generating the guided wave in the tube walls with the best possible penetration in the parent material under insulation.
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26.9 mm OD / 3.91 mm WT tube
Spherical bottom slit: Ø 2 mm
26.9 mm OD / 3.91 mm WT tube
Saw cut 2 mm depth
SRUT Guided Wave Inspection with use of PA probe and Recording a single MAP STRIP

Inspection SW Application for ISONIC 2009 UPA-Scope - Phased Array Modality: MULTI A-SCAN - Implementation of a Variety of Individually Programmed Focal Laws Desired by an Operator in One Scan and Forming a Strip Chart

- Use of Linear Array, Matrix Array and other PA probes
- Multi A-Scan Screen Composed of the ISONIC PA Pulser Receiver files created in the appropriate Inspection application
- Strip Chart Recording - Time Based and Encoded
- Strip Types:
  - Amplitude / TOF Graph
  - B-Scan
- 100% Raw Data Capturing
- Comprehensive Postprocessing Including:
  - Play back and evaluation of the A-Scans captured during the inspection
  - Converting strips from Amplitude / TOF Graph to B-Scan and vice versa
  - Off-Line Gain Manipulation (per strip)
  - Off-Line DAC Normalization of the B-Scan strips / DAC Evaluation
  - Numerous Filtering / Reject Options (by Gate / by Amplitude / dB-to-DAC / etc)
  - Defects Sizing
  - Creation of Defect List and Storing It Into a Separate File
  - Automatic creating of inspection reports - hard copy / PDF / MS Word File

<table>
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<tr>
<th>Item</th>
<th>Order Code</th>
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<tbody>
<tr>
<td>Inspection SW Application for ISONIC 2009 UPA-Scope - Phased Array Modality: MULTI A-SCAN - Implementation of a Variety of Individually Programmed Focal Laws Desired by an Operator in One Scan and Forming a Strip Chart</td>
<td>SWA 3510030</td>
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(Inspection application details)
Inspection SW Application for ISONIC 2009 UPA-Scope - Phased Array
Modality: MULTI A-SCAN - Implementation of a Variety of Individually Programmed Focal Laws Desired by an Operator in One Scan and Forming a Strip Chart
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SRUT Guided Wave Inspection with use of PA probe and Recording a single MAP STRIP
SRUT Guided Wave Inspection with use of PA probe and Recording a single MAP STRIP
**Item** | **Order Code (Part #)**
--- | ---
Inspection SW Application for ISONIC 2010 / ISONIC 2010 EL - Phased Array Modality: **MULTI A-SCAN** - Implementation of a Variety of Individually Programmed Focal Laws Desired by an Operator in One Scan and Forming a Strip Chart
| SWA 910830
- Use of Linear Array, Matrix Array and other PA probes
- Multi-A-Scan Screen Composed of the ISONIC PA Pulser Receiver files created in the appropriate inspection application
- Strip Chart Recording - Time Based and Encoded
- Strip Types:
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  - B-Scan (Map)
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SRUT Guided Wave Inspection with use of PA probe and Recording a single MAP STRIP
SRUT Guided Wave Inspection with use of PA probe and Recording a single MAP STRIP
SRUT Guided Wave Inspection of pipe wall with use of PA probe

A-Scan calibration screen

Pipe wall map obtained through the scanning