

# Short Range Ultrasonic Testing

## A Technique for Hard to Assess Areas

### Principal

Short Range Ultrasonic Testing or SRUT is a relatively new advancement in UT capabilities that now allows us to indirectly inspect under or inside of areas previously hard or difficult to assess due access for direct examination. The AUT Solutions SRUT probe can be operated manually for a specific inspection scan or can be coupled with the AccuScan Automated crawler and provide an encoded scan, 360 degrees. Utilizing a Modified UT "B" Scan, SRUT can capture an inspection field 3 foot in length, 360 degrees around the pipe to inspect under pipe supports, hangers, thru concrete penetrations and soil to air interfaces.

SRUT provides a non-invasive inspection approach vs. that which would be required for a direct visual inspection. Review & evaluate scans from multiple items of similar characteristic, rank the scans based on severity and reduce the number of direct visual inspection required, reducing the cost of Atmospheric Corrosion Monitoring.

### Features & Specifications

- Inspection distance of 36 inches
- Thin walled materials less than 0.500" thick
- Uses low frequency sound waves to flood thin wall material and then reflect back at interfaces such as corrosion/pitting

### Applications

- Pipe supports & hangers
- Thru concrete penetrations as in vaults or compressor stations
- Soil to Air interfaces at Well heads & facilities
- Great indirect inspection application for Atmospheric Corrosion Programs

