

RAPID DETECTION OF INTERNAL CORROSION DAMAGE



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DETECT UNSEEN HAZARDS THAT CAUSE LIFE-THREATENING LEAKS, POLLUTION AND PROPERTY DAMAGE

Russell's "Bracelet Probe"™ (BP) technology quickly and easily adapts to any size of ductile-iron, cast-iron or steel pipe, (starting at 6" diameter). The BP contains 16 high resolution sensors that cover a 10" wide scan path along the outside of the pipe.

The BP uses a low frequency EM (electro-magnetic) field that penetrates through the pipe wall. Variations in the thickness of the pipe result in changes to the field which is detected by the sensors. These field variations are measured by a Ferro-scope™ Instrument and are recorded and displayed by a lap top computer. The data are displayed immediately and available for instant analysis.

Other Russell inspection services:

- INTERNAL PIPELINE INSPECTIONS
- SEESNAKE AND CHIMERA TOOLS
- WATER, WASTE WATER, OIL AND GAS
- CONCRETE PRESSURE PIPE
- CCTV INSPECTIONS, UP TO 1.25 MILES
- LEAK DETECTION (Acoustic Sphere)
- TRANSMISSION MAINS
- RAW WATER MAINS
- SLURRY PIPELINES
- LINED PIPELINES
- LOW FLOW PIPELINES
- LARGE DIAMETER PIPELINES
- CUSTOMERS WORLD-WIDE

flexible solutions for your inspection needs

**THE BRACELET PROBE PROVIDES A PRACTICAL SOLUTION FOR THE
FAST, ECONOMICAL INSPECTION OF BARE, COATED OR WRAPPED
PIPES.**

Rapid results: near real-time

Screen snap-shots can be saved of the 3D color-maps, strip charts and voltage planes which are used to display and size the degree of damage. Trends in wall thickness reductions can be easily seen and understood. Individual pits, graphitization and erosion are all immediately visible.

- Scan at up to 12 feet/minute (depends on thickness of pipe)
- Horizontal and vertical pipes.
- Exposed plant piping
- Bare or coated pipe in excavations
- 10" wide scans cover the whole pipe circumference in a few quadrant scans

CUSTOM SOLUTIONS

Russell can design and manufacture custom NDT solutions for your plant or pipeline operations.

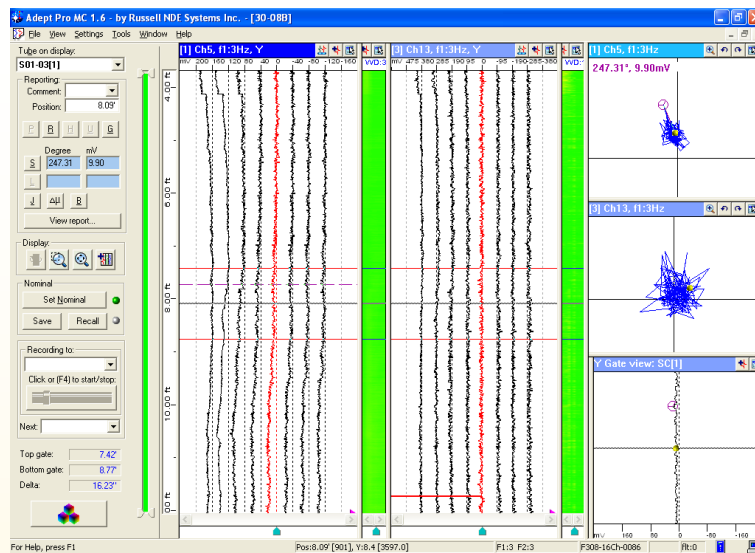
TRAINING SOLUTIONS

Russell regularly provides training courses for our customers.

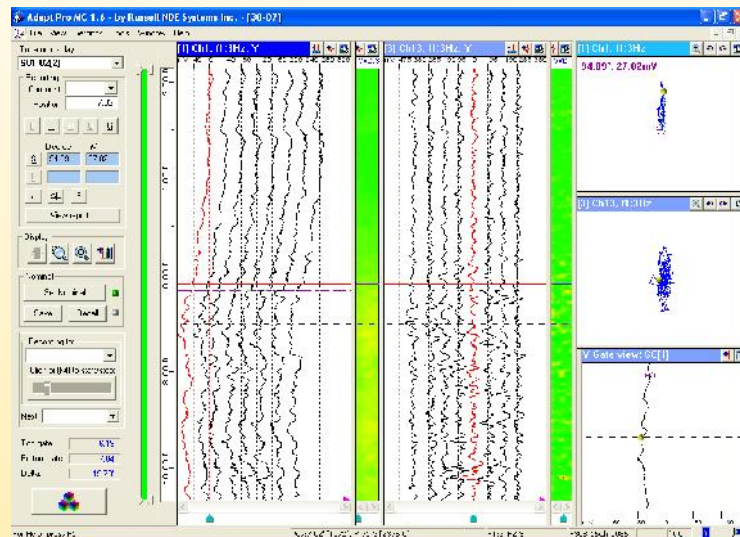
Send your technicians to us, or let us come to you

SOFTWARE SOLUTIONS

Our talented software engineers can customize our software to meet your needs. The family of software products that we offer starts with Adept-Pro™ and Easy-Log Pro™ and continues with Analyzer™ and Links™ software for pipeline applications



Data from a normal Pipe above, corroded pipe below



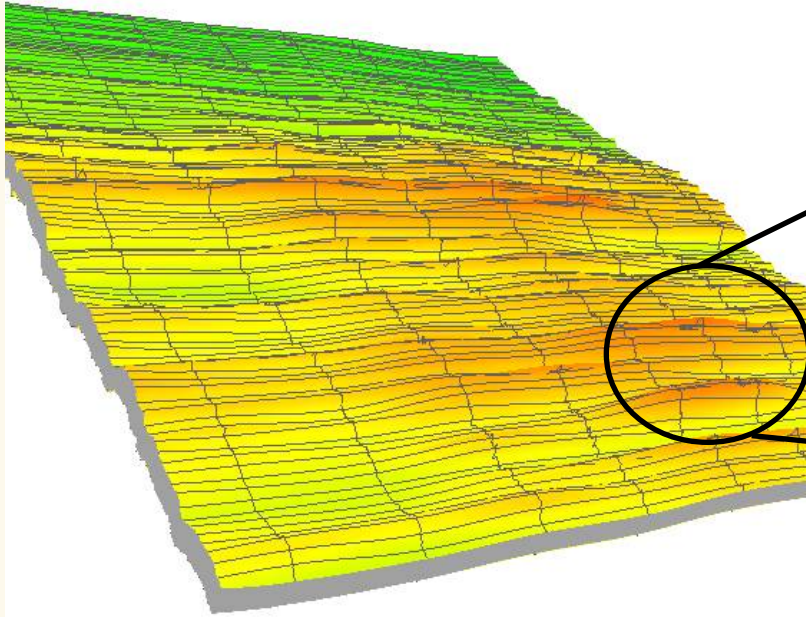
ULTRA-SONIC CONFIRMATIONS

Ultrasonic readings taken on the ductile-iron pipe (screen cap, above) confirm the H₂S attack.

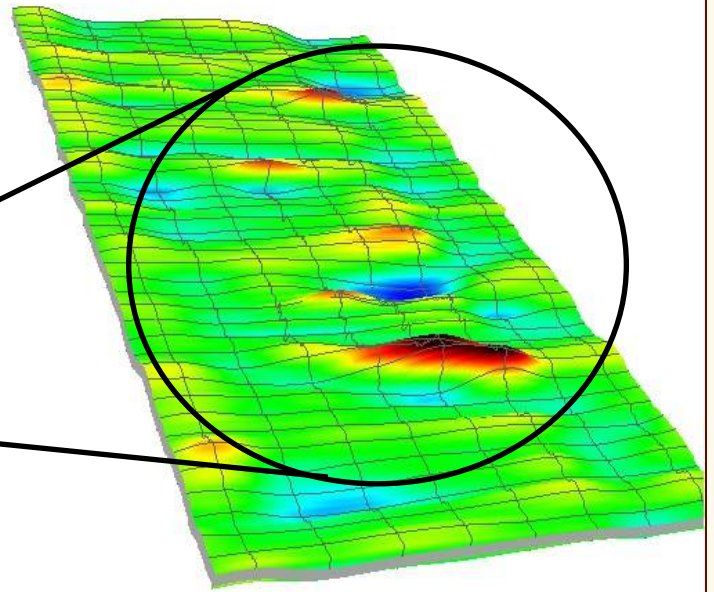
Individual pits are seen in the right side strip chart and overall thinning in the left-side strip chart.

In this example the pipe had thinned to 50% of its original thickness near an air-release valve

3D visualization of H₂S damage in sewer pipe:



Zoom-in of pitted area



Russell: simple NDT solutions to complex and costly problems

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