



Structural Integrity Associates, Inc.®

Structural Integrity Adds PowerFocus™ Guided Wave Technology to Its Toolbox

About PowerFocus™

Several of the key features of the PowerFocus™ guided wave pipe inspection system are as follows:

LOW-PROFILE, LIGHT-WEIGHT

The PowerFocus™ transducer collars require less than 1" of clearance between adjacent pipes and/or structures and less than 5" of axial space to complete a test. This opens a large population of previously inaccessible pipe to guided wave inspection. Furthermore, the PowerFocus™ transducer collars are extremely light, compared with other collars, and all inspection equipment, including collar sizes from 2" to 24" in 2" increments, can be fit into two ruggedized shipping cases.

FREQUENCY MAP™

The PowerFocus™ system is capable of rapid data acquisition from 20kHz to 85kHz and higher, in 1kHz increments. Data is collected at each discrete frequency increment and there is no interpolation of data. Following acquisition, all the collected data can be viewed at once in the Frequency Map™ plot available in the PowerFocus™ software. This allows the operator to quickly identify the optimal frequencies for the inspection as well as any areas of concern.

TOTAL FOCAL SCAN™ AND ACTIVE FOCUSING CAPABILITIES

PowerFocus™ incorporates both improved active and passive guided wave focusing capabilities. Using physically based computational algorithms, the Total Focal Scan™ technology passively focuses guided wave energy at all locations in the diagnostic length, generating a virtual image of the pipe. For tough inspection conditions, such as buried or heavily coated pipe, the active focusing capability can be used to deliver concentrated wave energy to a specific axial and circumferential location.

DATA AND REPORT MANAGEMENT THROUGH TREE CONTROL

The PowerFocus™ software incorporates tree-controls for intuitive data organization, access, display, and reporting. Previous guided wave scans from the same job-site or even the same pipe are easily accessed without having to search for deeply nested data files. Furthermore, the job tree provides a visual representation of the evolution of the entire project and is linked to a report tree that allows for the immediate export of the desired information to a Microsoft Word based inspection report.

WHAT THIS MEANS FOR OUR CLIENTS

Simply put, by adding the PowerFocus™ long-range guided wave pipe inspection system to our NDE offerings, SI will be able to provide a higher-quality inspection service with improved sensitivity and inspection confidence and we will be able to do so with a higher productivity and lower mobilization cost. Furthermore, due to the small footprint of the PowerFocus™ system, we can now access plant piping that was previously not inspectable using comprehensive guided wave techniques, eliminating the need for expensive alternative approaches such as excavation or in-line inspection.

For more information please contact:

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