

IRISNDT

Carbon Steel Fin-Fan Tubes Near-Field Array (NFA) Integrity Evaluations

NFA INSPECTION

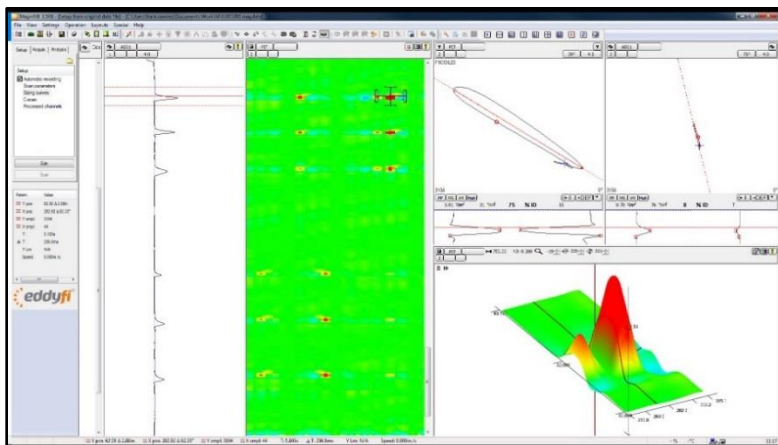
IRISNDT offers NFA tubular inspection services to inspect the ID of carbon steel fin-fan tubes. NFA tubular inspections use multiple individual coils grouped together instead of the single coil used in standard near-field testing (NFT). NFA uses two rows of receiver coils to provide 360° coverage of the ID of finned tubes.

IN COMPARISON TO NFT INSPECTIONS, NFA:

- Collects data for a larger tube area in a single pass.
- Is more sensitive to ID small volumetric flaws.
- Is better at sizing ID flaws.
- Is more sensitive to circumferential cracks.



1.0 inch x 0.109 inch Fin Fan Tube Exhibiting Signs of General Corrosion



C-Scan Image showing a 75% ID Pit

IRISNDT APPLIES NFA:

- To identify ID general corrosion.
- To identify ID erosion.
- When satisfactory cleaning, needed for techniques such as Internal Rotary Inspection System (IRIS), is not achievable.

FEATURES

- NFA results are displayed in C-scan images.
- High Resolution Displays assist in better analysis.

INSPECTION PREPARATION

- Tube must be free of scale and debris. Calibration is based off custom NFA Standards that include different size diameter pits.

LIMITATIONS

- Can only be used to inspect carbon steel.
- Identifies only ID losses.

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