

The Future of Non-Destructive Testing

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Presented to: NTSB
Airplane Fuselage
Structural Integrity
Forum

Washington, DC

September 22, 2011



imagination at work



NDT OEM's provide Aerospace with leading edge inspection solutions that boost productivity and quality. Success of these programs is based on **our industry knowledge, our ability to understand your needs and our technologies**



Two Inspection Methodology Approaches:

Keep it Simple?

Utilized advanced Technology?

Keep it simple.... Utilize existing, proven NDT Technology

Advantages: simplifies training, reduces capital equipment costs, part of existing Aircraft OEM tool box

Disadvantages: more expensive in long-term, larger flaw target detection size, less flexible inspection

Utilize Advanced Technology....

Advantages: higher potential for cost reductions, lower program impact (operational), smaller target flaw size, added inspection flexibility

lower training costs? (possibly with new approaches)

Disadvantages: Higher capital equipment costs, higher training costs, increased program introduction costs

Technology to watch...

Phased Array UT

Miniaturization of instrumentation and accessories (probes, batteries)

CR/DR Radiography

RVI (Remote Visual Inspection)

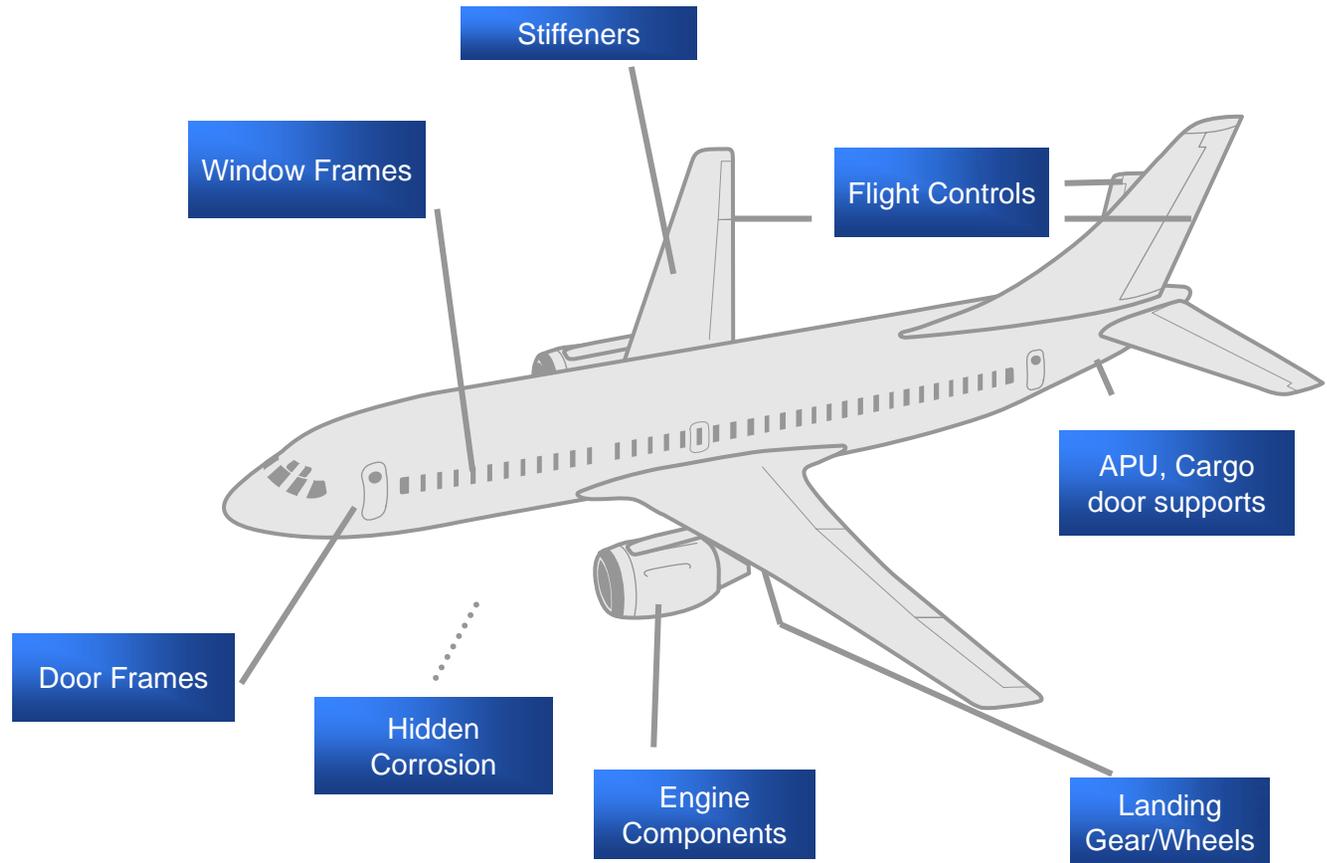
Remote Sensor Systems

Array Eddy Current

Advances in tradition NDT Methods

Post processing Software (review & reporting)

Sampling of Fuselage Inspection Areas – Typical & Recurring issues.

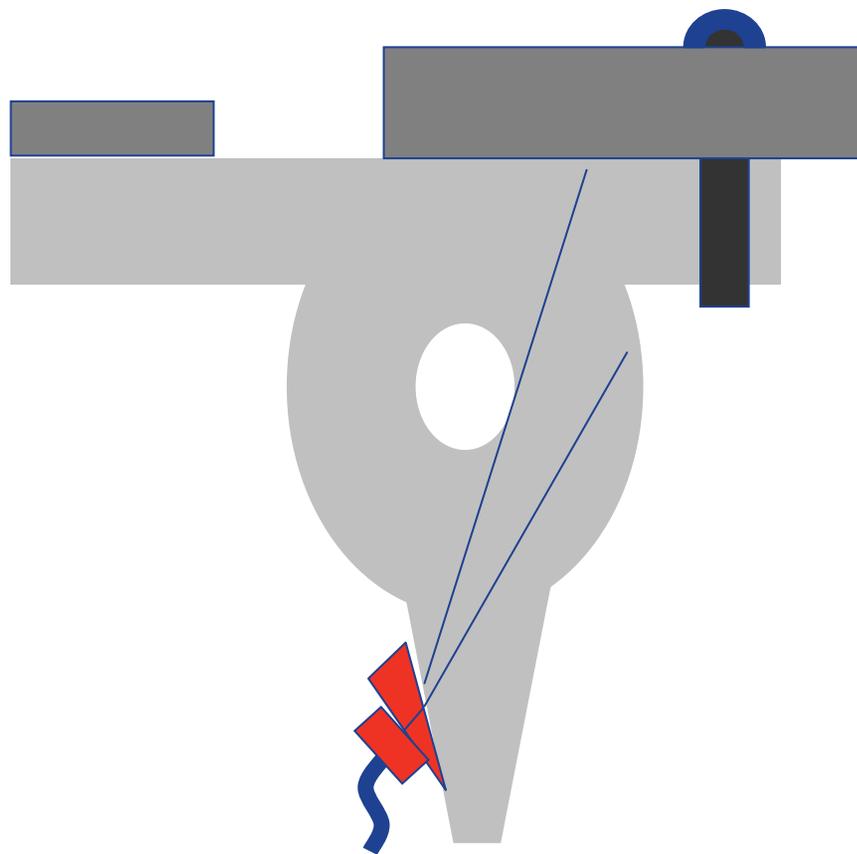
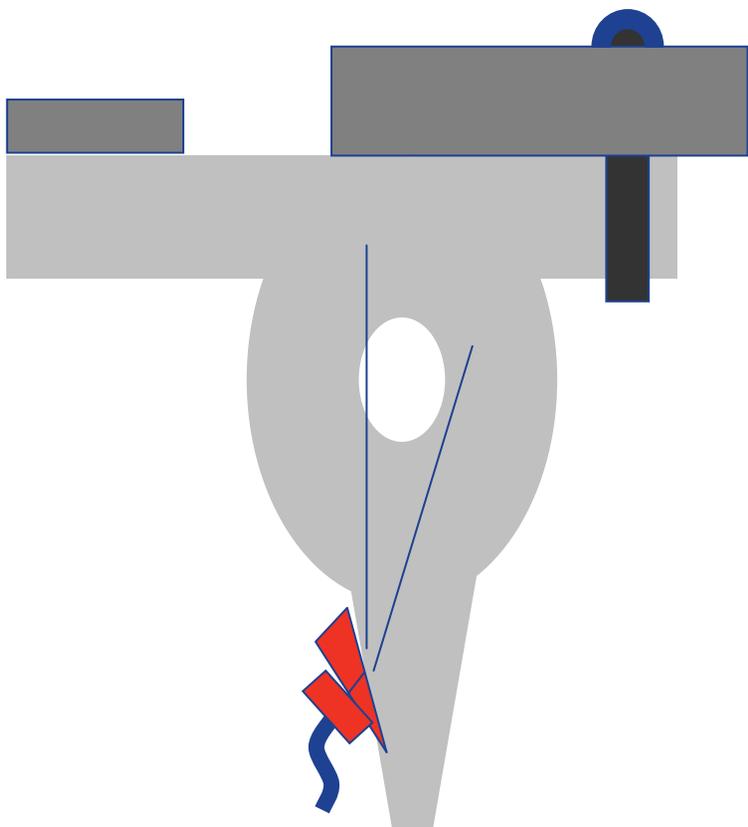


RVI – Structural Inspection

Can we utilize RVI methods for remote fuselage inspections? **YES.**



Phase Array Lug Inspection Example



Keep it Simple?



- Simple pulse-echo device for use by Non-NDT technicians
- Calibrates on good material (green display) then compares changes in material thickness, Red = reduced thickness
- Operates like a “stud finder”

How do incorporate new Inspection approaches?

Cross-channel communication

Focus on customer needs

Being able to work the vision

Industry teaming efforts

Sharing the cost of new technology
implementation introductions

Power is in the numbers! Teaming efforts increases exposure and success!



