



Design and Field Experiences – Sandwich Structure

Boeing Commercial Airplane
15 September 2015

*FAA/Bombardier/TCCA/EASA/Industry
Composite Transport Damage Tolerance and
Maintenance Workshop*

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■ Agenda

- Typical Sandwich Construction Issues
- Failsafe approach to PSE Sandwich Construction

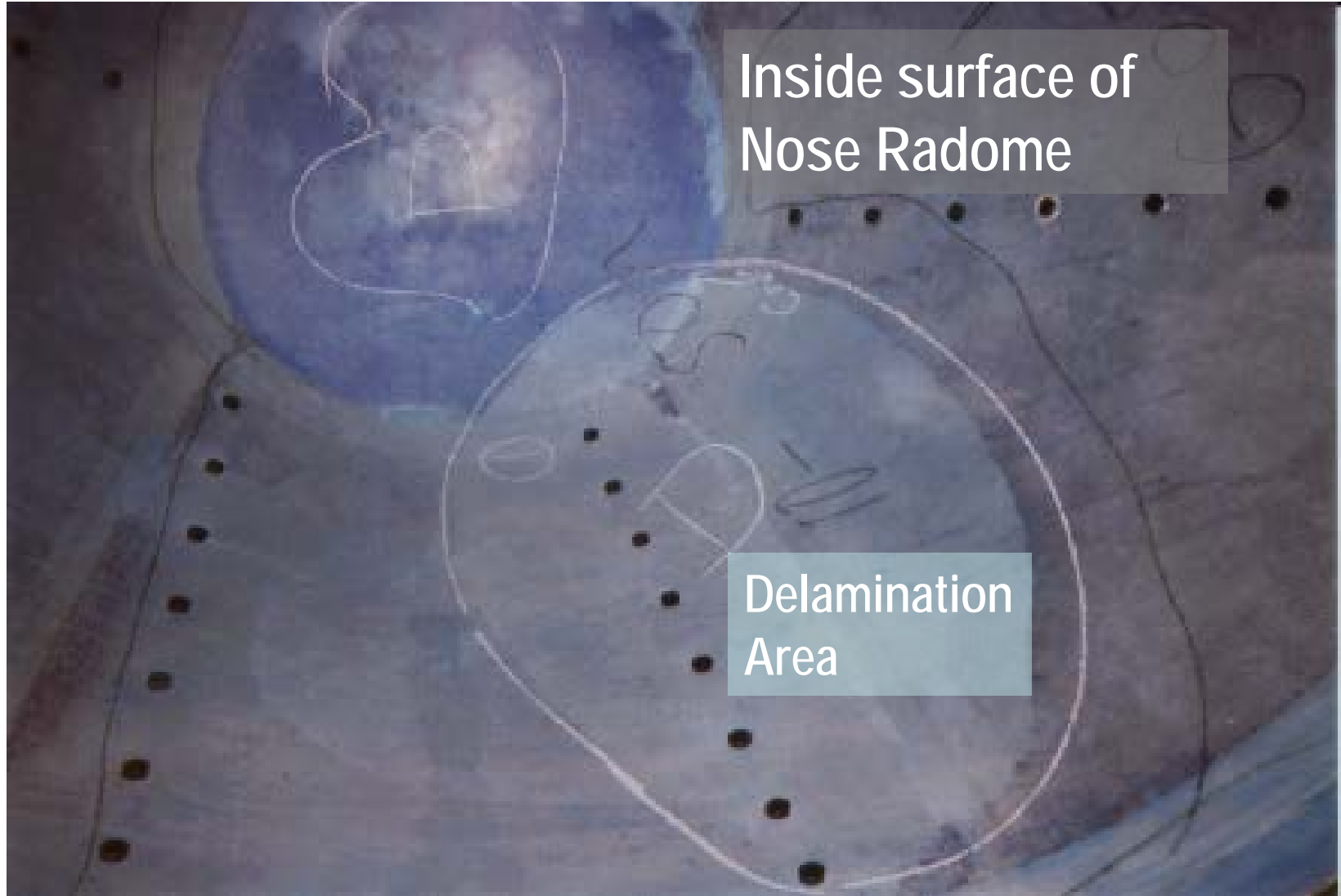
Hail Damage Pictures



- Sandwich construction can be more susceptible to impact and environmental damage but with good design details is minimize



Moisture Damage to Nose Radome



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- PSE control surfaces
- Failsafe approach to PSE Sandwich Construction
- Limit load residual strength is demonstrated with a disbonded facesheet
- Ribs are used as an aressment feature

Rudder shown
for example

