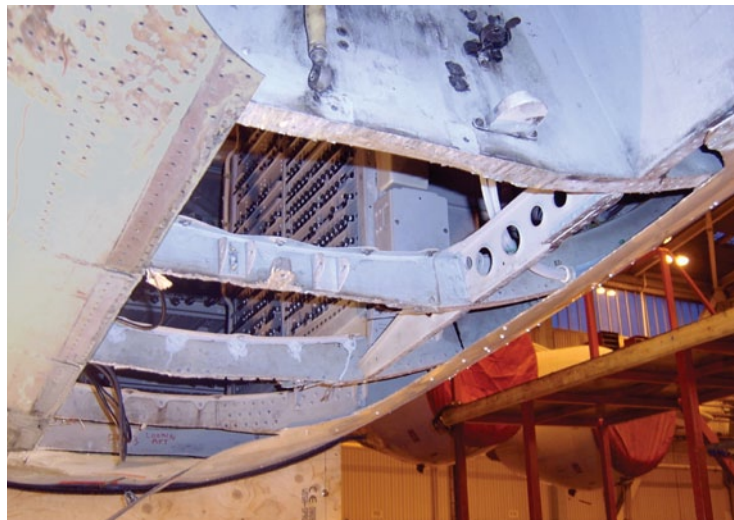


# EASA PART 21 J & G repair solutions

from BAE Systems Regional Aircraft



## Case study I – Avro RJ nose landing gear repair

### The Scenario

Flight crew alerted tower on approach to an airport after a warning light appeared to show that the nose gear was down. As the aircraft touched down the Landing Gear retracted sending the aircraft skidding nose down to a halt on the runway. All passengers evacuated safely with no injuries.

### Project Scope

Nose section including eight major frames and three large skins were extensively damaged.

A subsequent contract involved replacing the aircraft escape slides, engine fire bottles and other equipment deployed when the aircraft landed.

### The Project

Replacement repair parts were designed, tooling kits and hundreds of small items of material were assembled and shipped to the working party. By careful project management of a number of contractors, the manufacturing was carried out according to Regional Aircraft's technical specifications.

### The Schedule

- Damage assessed firstly by the relevant Civil Aviation Authority.
- Initial report given to the operator who contacted BAE Systems Regional Aircraft to assist in the repair.
- An independent damage assessment was carried out by a Regional Aircraft design engineer and a systems engineer,

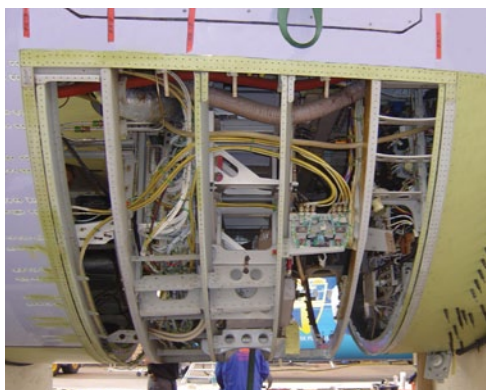
proving the value of a detailed account of the extent of the damage.

- A subsequent visit by the Head of Technical Support along with the Area Sales and Support Manager (ASM) to discuss the repair proposal with the customer and the insurers.
- Final stage: running engines, systems checks, function testing the undercarriage, then straight into the paint shop.

**Job done...safely back in service after 42 days, to timescale and within budget.**

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