Aerospace Casting Welding Repair

The manufacture of replacement aerospace parts is a time-consuming, complex and costly exercise, which is why many companies in the aerospace industry are keen to identify a more efficient solution when components are found to be faulty.

THE Applus+ SOLUTION

Applus+ now offers Nadcap-certified welding repair to complement its non-destructive testing (NDT) services. Specifically, if a problem is identified during the NDT process, the part can be repaired and re-inspected in a fraction of the time it would take to manufacture a new component.

Our roadmap includes performing and/or reviewing a 100% X-ray of the component in question and, if necessary, excavating porosity, shrinkage or linear indications with the in-process verification of defect removal.

Applus+ performs repair welding in a temperature- and humidity-controlled room, ending with the blending of repair zone(s). The repaired part is then sent back through the NDT process to ensure the hardware meets the requisite standards.

Target customers

Welding-repair services can be applied to a range of common aerospace materials including:

- Aluminum
- Titanium
- Nickel
- Cobalt
- Magnesium
Common applications for this service include:
- Aircraft engine castings
- Rocket fuel tubing
- Aircraft engine ducting systems

Key customer benefits

Benefits of partnering with Applus+ for casting repairs include:
- Reduction of scrap components for disposal
- Increased product through-put
- Reduced costs
- Significant time savings in comparison to the time taken to manufacture new components
- All work fully certified

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