

Additive Manufacturing – Rapid Replacement of Safety-Related Parts



Improving **SAFETY** with new equipment and advanced technology.

Why use additive manufacturing for replacement parts?

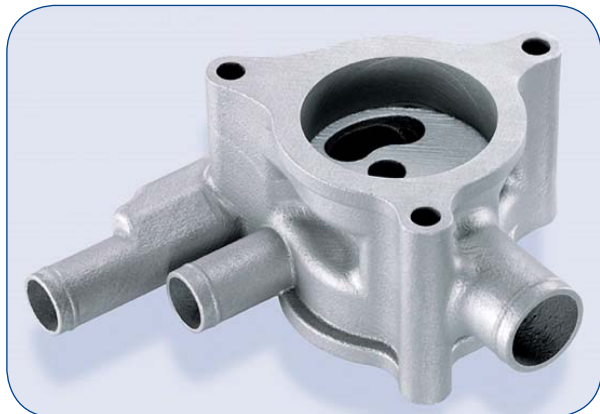
- Material test reports
- Tensile specimen fabricated with part
- CAD files provide permanent manufacturing record
- Fabrication technique and material specification change only requires an equivalency evaluation – no plant modification

Why use AREVA for additive manufacturing?

- 10CFR50, Appendix B program
- Reverse engineering capability
- Commercial dedication for safety-related applications

More Innovative Outage Solutions

- RCP pumps and motor shop services
- Engineering and analysis
- Chemistry lab services
- PWR & BWR refueling services
- Safety-related machining and coatings
- Outage management and OCC support



Ability to fabricate complex shapes with internal passages

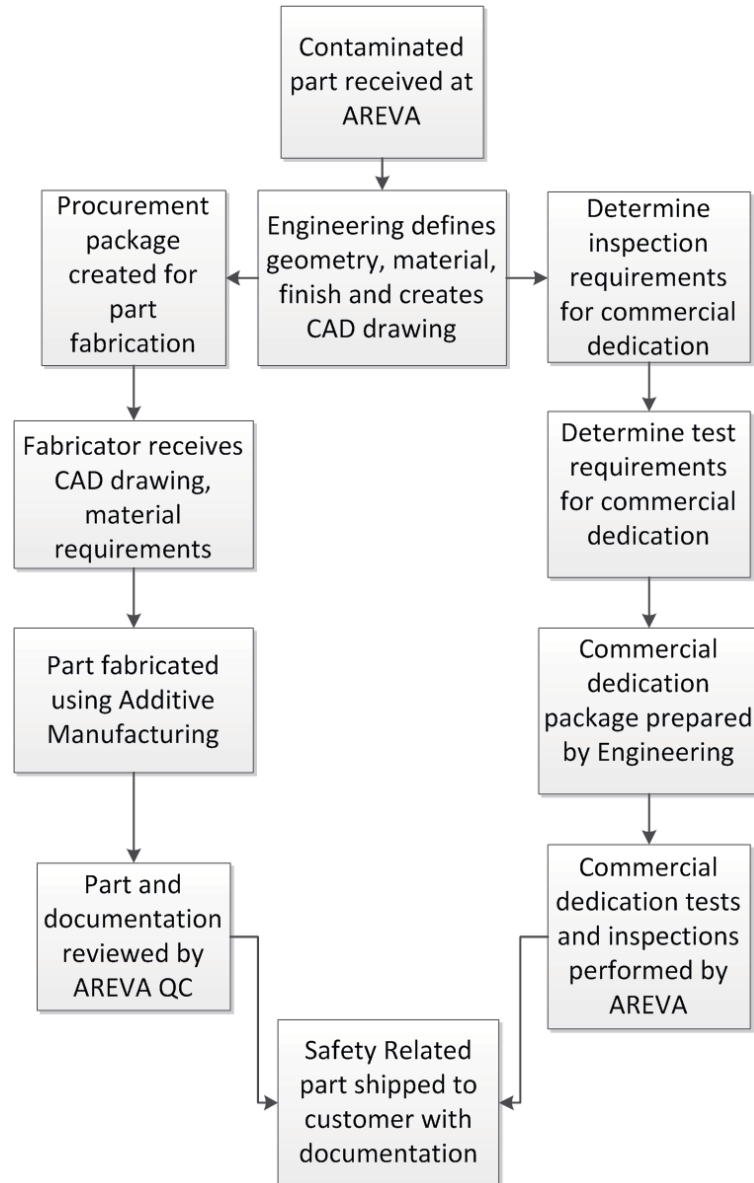
Features

- 3-day manufacturing capabilities
- Selection of alloys
 - Stainless steel
 - Inconel
 - Ni-Cr
 - Aluminum
- Part sizes up to 12”

Benefits

- Reverse engineer obsolete parts with quick turn-around
- High quality safety-related parts with test specimens
- Cost-effective method for fabricating multiple parts
- Avoids need for component replacement and plant mods
- Rapid parts fabrication on-demand to reduce inventory

Rapid Parts Model



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