



Emergency Response Composite Manufacturing

NONA Composites built the components of a 90' cantilevered beam in **3 weeks** including tooling and materials acquisition. **72 composite articles** totaling **1500 square feet** of **350 °F capable** composite were fabricated. Only three members of the production staff were familiar with NONA Composite processing before this project.



Emergency

- The DOE's Waste Isolation Pilot Plant (WIPP) is the nation's only deep geologic repository for nuclear waste
- Since 1999, approximately 90,800 cubic meters of transuranic waste have been safely removed from 22 different waste generator sites nationwide and stored at WIPP
- WIPP was shut down in February 2014 due to a truck fire and radiological release
- The facility will remain closed until the first quarter of 2016.
- **Estimated cost of recovery is \$242 M**
- www.wipp.energy.gov/WIPPRcovery

Recovery

- Phase I focused on the response to the radioactive material release
- Phase II is ongoing and focused on the cause of the release
 - **A composite beam was identified as necessary to survey the incident location**

Why NONA Composites?

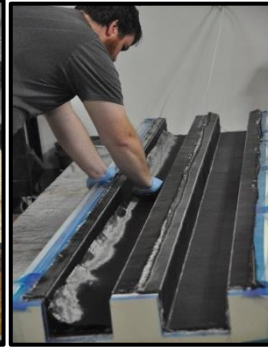
- High performance required to meet application structural requirements
- Fast turn around was top priority
 - Low-cost tooling
 - Minimum skilled labor needs
 - No infrastructure upgrades
 - We controlled resin supply
 - All other components – COTS
 - Limited space required
- **Only NONA Composites could meet the rigorous schedule demands with a material of sufficient quality**

NONA Composites' ability to make high performance composites quickly was a crucial step in the road to recovery of a unique national resource

Foam Tool



Layup



Resin Infusion



Self-Curing



De-mold Tool/ Part



High Performance Composites Made Quickly

Emergency Response
350 °F Composite Tooling
Prototype Fabrication
Custom Parts

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