



**Fiberglass
Structural
Engineering, Inc.**

Consulting Engineers / Specialists in Composite Materials Application



TYPICAL FRP SPECIALIST ROLES FOR FLUE GAS DESULFURIZATION (FGD)

Fiberglass Structural Engineering offers FGD projects the following FRP Specialist support services:

- Develop or modify FRP equipment specifications:
 - ▶ Design, Fabrication, Installation, and QA/QC.
 - ▶ Descriptive Detailed (FSE design); -or- Modified Performance (Vendor design).
- Assistance with Vendor qualification and suggested bidders list.
- Technical Bid Assistance:
 - ▶ Prepare or review technical sections of RFQ packages.
 - ▶ Technical contact and resource for questions during bidding.
 - ▶ Review of bid technical sections, bid tabulation.
 - ▶ Attend Pre-Award Meetings as Project's FRP Specialist.
- Design Submittal Review of Vendor's Design Report (design performance spec option).
- Perform pre-fabrication Alignment Meeting.
- Perform fabrication Quality Assurance surveillance:
 - ▶ Manufacturing shop
 - ▶ On-site field fabrication (large diameter chimney liners, duct, scrubber vessels, tanks).
- Perform installation Quality Assurance surveillance:
 - Field joints and other overlays (chimney liners, ducting, scrubber assembly, tank sections).
- Provide FRP specific Field Engineering liaison between all parties, as needed.
- FRP engineering recommendations for NCR resolutions.
- Witness commissioning tests and start-up.

----- Post Project -----

- Develop and execute a Preventive Maintenance Inspection program for the lifespan of the FRP.