



**Fiberglass
Structural
Engineering, Inc.**

Consulting Engineers / Specialists in Composite Materials Application



QUALITY SURVEILLANCE SERVICES

What is true quality?

“To the user, quality is fitness for use, not conformance to specification. The ultimate user seldom knows what is in the specifications. His evaluation of quality is based on whether the product is fit for use on delivery to him and on whether it continues to be fit for use.”

-- Quality Control Handbook - Third Edition

Proven Keys to Achieving Meaningful Quality Assurance for FRP Equipment:

- ✓ **Independence – 3rd Party Objectivity**
- ✓ **Specialization**
- ✓ **Industry Experience and Qualification**
- ✓ **Integrated Engineering Support**
- ✓ **Interaction**

Since 1976, Fiberglass Structural Engineering has provided industrial clients with expert third-party quality assurance surveillance for the fabrication and installation of FRP (fiberglass reinforced plastic) equipment and piping. Our proven approach to QA surveillance has resulted in FRP products and installations that truly achieve effective and meaningful ‘quality’ for the project.

Specialization is particularly important when managing the quality of FRP fabrication and installation. FRP is an engineered composite material, produced at the time of equipment fabrication. It achieves its physical properties from the proper laminating and curing of its various materials. It is crucial that QA surveillance personnel are experienced in the FRP industry and qualified to identify the special considerations associated with this unique material. FSE has performed over 120,000 man-hours of specialized FRP surveillance over the past ten years alone.

Effective FRP QA surveillance goes beyond simply monitoring for compliance with specifications. It often involves field-engineering solutions to resolve unexpected problems and keep the fabrication or installation on schedule. FSE provides integrated engineering support for all our QA field services, resulting in reliable solution-based quality management. Our QA field inspectors pay close attention to the “interaction” of fabrication and installation elements that can potentially impact the quality and reliability of the finished FRP equipment -- not just “the checklist.” FSE’s integrated approach to QA surveillance provides the project with effective troubleshooting, and unparalleled quality care and reliability.

FSE QA Field Personnel Profiles are available upon request, which describe the extensive, specialized experience resident in our field inspectors and support engineers.

Using FSE QA surveillance is best practice for achieving meaningful FRP quality care.