



Nuclear Quality Assurance Services

HSB, a Munich Re company, is a technology-driven company built on a foundation of specialty insurance, engineering and technology, all working together to drive innovation in a modern world.

HSB's technical staff assists companies with the preparation and implementation of their Quality Assurance (QA) programs.

HSB helps clients establish nuclear quality assurance programs and can perform both internal and external audits. In addition, HSB offers Nuclear Quality Assurance (NQA) advisory services alongside pressure equipment inspections, certification, auditing, and engineering services.

Nuclear Quality Assurance Advisory Services

HSB guides clients through the complex regulatory environment to ensure compliance with nuclear safety-related regulations and standards, including:

- 10 CFR Part 50, Appendix B "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants"
- ANS 3.2 "Administrative Controls and Quality Assurance for the Operational Phase of Nuclear Power Plants"
- ANS 15.8 "Quality Assurance Program Requirements for Research Reactors"
- ASME NQA-1 "Quality Assurance Requirements for Nuclear Facility Applications"
- ASME Boiler & Pressure Vessel Code, Section III "Rules for Constructions of Nuclear Facility Components" (Quality Requirements)
- CSA N286.0 "Quality Assurance Program Requirements"
- CSA N299 Series "Quality Assurance Program Requirements for the supply of items and services for nuclear power plants, Category 1-4"

HSB's Nuclear QA Services provide support, including:

- Identifying gaps in the QA manual
- Assisting in the preparation of QA manuals and procedures
- Assisting in the preparation of written practices for NQA examiners
- Preparing demonstration item scopes and materials
- Training personnel in a client's QA program
- Performing periodic audits during program development to ensure effective implementation of a client's QA program
- Supporting QA program implementation

NQA Audits and Supplier Surveillance

HSB conducts internal management and vendor audits, including vendor qualification, as required by the ASME Code, NQA-1, N299, and organizational QA programs. HSB also provides supplier surveillance to ensure compliance with procurement requirements or industry standards.

Why HSB?

- **Single Source Inspection Service:** HSB can inspect all of your pressure equipment requirements.
- **Global Coverage:** HSB's engineers and inspectors worldwide allow us to cost-effectively manage complex, multi-site inspections across a variety of standards.
- **Local Presence:** With representation in Europe, Asia, and the Americas, we enable you to strategize globally and act locally.
- **Responsiveness:** HSB responds quickly to urgent situations requiring accelerated project schedules and high levels of support.
- **Global Inspection Staff:** HSB has more than 450 pressure equipment inspectors and supervisors, including National Board nuclear and non-nuclear commissioned inspectors in Asia, Europe, the Middle East, and North and South America.
- **Client Focus:** HSB ensures delivered services meet client needs and requirements, ranging from incoming material approval to installation and testing.

For more information contact GetInfo@hsb.com