

Structural Integrity Associates, Inc.[®]

Fabrication Support

for Manufacturers and Nuclear Utilities

INDUSTRY ISSUE:

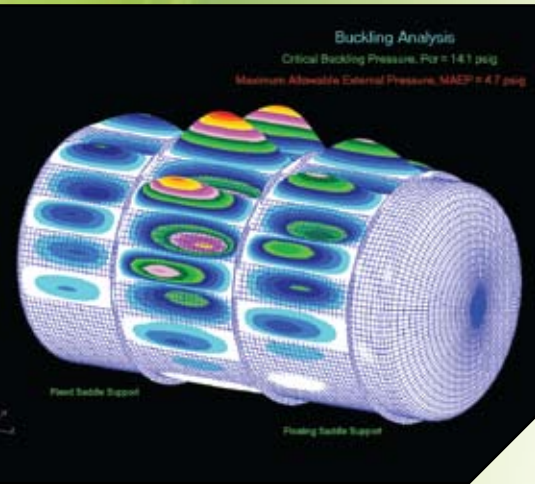
With the continued operation and uprating of the U.S. commercial nuclear fleet, many components will need to be assessed to ensure their integrity. Otherwise, they must be rerated, repaired or replaced. In addition, soon there will be growing demand for new plant components with the construction of new nuclear plants.

SOLUTION

With market demand for replacement and new components, Structural Integrity Associates, Inc. (SI) has been active in providing high quality, timely and cost-effective engineering services to fabricators under their quality assurance program and the nuclear power plants.

SI's wide range of quality engineering services to support our clients include:

- Stress analyses, buckling analyses, vibration analyses, fatigue and fracture analyses, weld residual stress analyses, thermal hydraulic analyses, welding engineering, materials engineering, heat transfer analyses, fitness-for-service, nondestructive examination and training
- Providing Registered Professional Engineer (RPE) certified design specifications and design reports for ASME Code Section III and VIII plant components
- Assisting fabricators obtain or renew their N-stamps by preparing RPE certified design specifications and reports for demonstration vessels
- Assisting fabricators without an N-stamp or an approved nuclear QA program with review and RPE certification of design documents under SI's approved nuclear QA program
- Providing ASME Code reconciliations for components
- Supporting for component non-conformances and deviations
- Supporting third-party reviews of engineering and fabrication records
- Providing engineering evaluations to rerate in-service components and assess the structural integrity of in-service components that contain damage or flaws such as general and local thin areas, pitting, grooves, dents, gouges, cracks and et cetera



For more information, please contact:

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SI performs safety-related work in accordance with the SI Quality Assurance (QA) Program, which is in compliance with the requirements of 10CFR50, Appendix B, 10CFR21, and ANSI/ASME NQA-1-1989, 1994 and meets the intent of applicable portions of ANSI N45.2.