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ENGINEERED SOLUTIONS FOR ON-SITE SERVICES





Over the years, Senior Flexonics Pathway has provided our customers with on-site services comparable to none. Our service group consists of highly-qualified technicians and engineers specialized in solving expansion joint installation problems. As a leader in our industry, we are confident you will find the most efficient work force to meet your field expansion joint requirements.

#### PLANT SURVEYS

Preventing shut-downs before they occur is one of our specialties. Our engineers are dedicated to identifying, preventing, and solving problems on-site. Through careful inspection and problem prevention, Senior Flexonics Pathway can help you maximize production and avoid unplanned outages.

#### QUALITY ASSURANCE

Our field crews include quality control personnel who inspect all aspects of the work and maintain all necessary records. On-site certification of part dimensions and fit-up tolerances are confirmed and documented. All of our inspectors are trained to ensure quality according to ASNT and our own stringent in-house standards, including:

- EJMA
- ASME Section VIII
- FSA
- ASME Section III Nuclear
- MIL-I-45208A

Our expansion joints also comply with:

- ASME Section IX USCG CG115
- MIL-E-17813API Cryogenic
- ANSI B31.1 & ANSI B31.3



## SAFETY

In order to reinforce our commitment to safety, Senior Flexonics Pathway exercises a rigorous training program incorporating new employee safety orientation, monthly training sessions and a proactive committee to recommend and review safety practices. Our safety equipment is also inspected, modified and upgraded on a regular basis and upon return from field projects. This ensures immediate response and availability for new projects.

Some of our standard certified training includes respiratory protection, hearing conservation, first aid and HAZCOM. We also train for H2S awareness, Benzene awareness and supplied air as needed. To further ensure the safety of our employees, all field personnel are drug tested, and nuclear project crews receive security background checks in accordance with the NRC Regulatory guide 5.66.



Senior Flexonics Pathway developed the ClamShell process to provide a cost effective and reliable means of replacing a failed bellows. A ClamShell may be installed without removing the expansion joint assembly by encasing the existing bellows element with a new element and stand off rings. After a proprietary process is completed, the replacement bellows is divided and reassembled by clamping, securing and welding the two halves together over the existing bellows.



### THE LONGSEAM WELD

The longseam weld is the most critical step of the ClamShell process and the key to the bellows reliability and performance. Welding the ClamShell halves together is the most critical step because it must flex along with the convolution of the bellows rather than remaining static. Extensive research and fatigue testing programs are conducted to achieve this high level of quality, and our technicians are specifically trained in the fit-up and precision welding of the convolution. This is just another way Senior Flexonics Pathway has refined the ClamShell process.

## FABRIC ON-LINE INSTALLATIONS

Our crews are also thoroughly trained in all aspects of fabric expansion joint installation, using repairable materials that may allow for the use of patches rather than complete replacement. Senior Flexonics Pathway's expertise guarantees your installation will be efficient and trouble free.

#### PIPING STRESS ANALYSIS

Senior Flexonics Pathway's engineers are experts in piping system analysis and the modeling of complex expansion joint systems. We can analyze the system to determine the need for expansion joints and recommend the best solution for your system. Our report will include the optimum number of expansion joints and style required, specific data for guides, spring supports and anchors, and the total cost.

# THE TURNKEY

The turnkey approach assigns complete project responsibility to us and guarantees you proper assembly and installation of the expansion joint. This approach is particularly effective for complex installations and projects which require modifications of existing hardware or field assembly. Reliability, single-point contact for material and installation, and an extended warranty that include in and out costs for the initial year, are just a few advantages of the turnkey approach.

