

Heat Exchanger Services

Balance of Plant

For over 20 years AREVA's team of engineers and technicians have focused on the performance and maintenance of BOP Heat Exchangers for the safety, efficiency and operability of plants. Our highly trained, skilled nuclear professionals understand and use human performance tools that result in safely performed, error-free maintenance activities which include:

- General maintenance tasks
- End cover removal and reinstallation
- Tube inspection and cleaning
- Tube plug removal and plugging
- Stabilizing
- Bundle replacement
- Component retubing
- Sleeving
- Hydraulic expansion

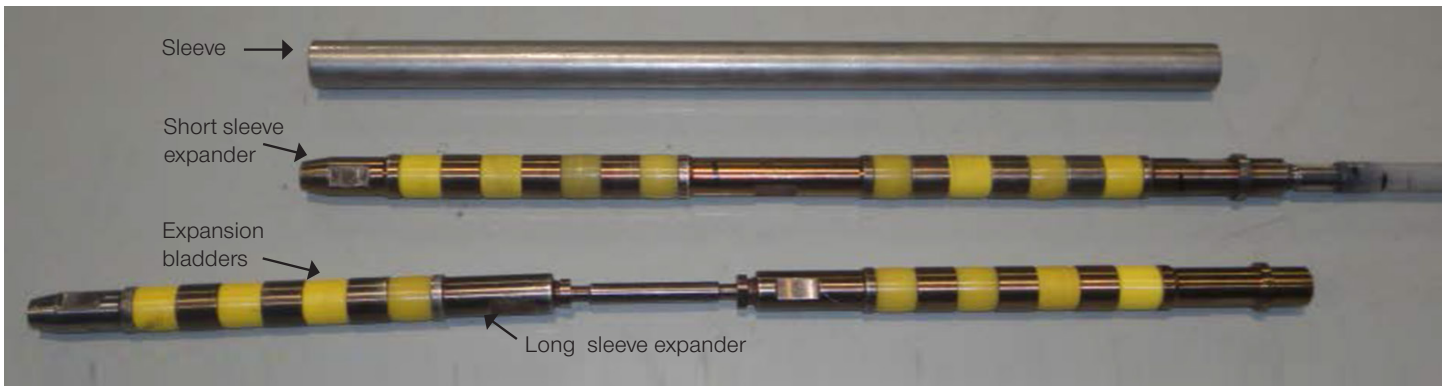
All Plant Shell-to-Tube Heat Exchangers

- Condensate and feedwater systems
- Safety-related heat exchangers
 - RHR
 - Containment spray
 - Emergency diesel generator coolers
 - Component cooling water (CCW)
- Containment heat exchangers
 - Letdown coolers
 - Containment chillers
 - RCP coolers



Features and Benefits

- Life extension specialty component repairs
- Eliminates forced outages
- Perform repairs at a fraction of replacement costs
- Decreases tube plugging rate
- Balance flow between each stage of heat exchangers by removing plug and sleeving tubes to recover plugged tubes
- Sleeve becomes new pressure and structural boundary for tube
- Outage component maintenance/replacements
- Work planning (including safety and ALARA)
- Engineering analysis
- Heat exchanger Eddy Current



Innovative Solutions – Repair Technology for Heat Exchangers

Want to extend component life and minimize unplanned shutdowns? Consider AREVA's patented expansion repair technology for BOP Heat Exchangers. Our field-proven solutions have helped customers regain lost heat-transfer surface area and effectively extended the life of their components. As a result, the replacement of heat exchangers can be delayed or even postponed indefinitely while maintaining plant reliability. Plus, our responsive teams can help minimize the risk of unplanned shutdowns caused by heat exchanger issues.

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Tube End Plate Expansion

Do you have steam leakage through thinning end plates? Tube expansion is the repair solution:

- Minimizes steam in-leakage
- Minimizes tube vibration
- More than 36,000 expansions since 1997

Tube Sleevng Repair

Are you experiencing tube leaks and have flaws such as wear, pitting and cracking that need repair? Tube sleeving is the repair solution:

- Minimizes tube leakage
- New pressure and structural boundary for tube
- More than 4,900 sleeves installed since 1993
- Performed anywhere along tube length

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