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## Recent case study of an In-Service Tank Repair Utilizing Forge Tech's "Patented Friction Bonding Technology"





Active external waste water leak between the first and second shell course of a 130 foot diameter in-service tank.





Defective area (crack circled in yellow). Forge Tech Technicians mark stud locations and conduct UT readings for thickness verification.





Forge Tech utilizes our patented vacuum clamp in conjunction with our actuator and drive unit for the installation of attachment studs.





Forge Tech applying Friction Bonded Studs utilizing an Adaptor Plate secured by previously installed studs. The Adaptor Plate allows for locating additional studs as required.





Final Mechanical Repair Plate constructed from 304 stainless steel with a compression gasket with an option to inject as a secondary sealing capability.



# Post Job Evaluation

## Benefits:

- 1) Tank was repaired while still in service as operating unit would not allow isolation or outage.
- 2) Repair was completed within one 10 hour shift with only two Forge Tech technicians.
- 3) The Mechanical Repair Plate that was installed meets API 653 Section 9.

### **The Forge Tech Solution: Mechanical Repairs In-Service**

**Mechanical Repairs = No Emissions**

**No Sparks, No Flames = No Ignition Source**

**No Shutdowns, No Decommissioning = Lower Costs**

**Significant Lifecycle Cost Savings = Improved Cash Flow**

**5-Year Warranty**