

Challenge

Issue

Cracked and leaking valve required replacement. To repair a draining tank would require taking plant off-line

Goals

- Avoid plant shutdown and repair valve in place
- Await annual shutdown for complete replacement

Root Cause

Aging

Solution

Preparation

- Temporary leak stops were installed
- External of valve was mechanical roughened to SP11 (white metal)

Application

- **ARC 5ES** was pressed into crack over temporary leak stops
- Two alternating layers **ARC 5** and reinforcing mesh was spread over crack

Results

Client Reported

- Repairs carried out in 3 hours without taking tank out of service
- Tank stayed in service without leakage for 6 months, until annual shutdown allowed valve replacement

1 day plant shutdown	\$ 125,000
ARC repair	\$ 1,200
Savings	\$ 123,800

\$=USD



Valve leakage plugged



Reinforcing mesh being placed



Repaired valve