

Challenge

Issue

Internal tank corrosion is limiting its service life.

Goals

- Increase equipment life
- Protect internal surface against corrosive operating conditions

Root Cause

Operation conditions with condensate (demineralized water) and temperature (230°F/110°C) are highly corrosive for the carbon steel tank.

Solution

Preparation

- Wash surfaces with hot water
- Grit blast to Sa 2.5 with 3 mil (75 - 125 µm) angular profile

Application

1. Apply **ARC HT-S** in a 2 coat system @ 20-24 mils (500-600 µm) final thickness.

Results

Client Reported

| | |
|---------------------------------|-------------------|
| ■ New tank: | \$134,500 |
| ■ ARC Solution: | -\$ 10,000 |
| ■ Total cost prevention: | \$124,500 |

Additional Benefits

- Demineralized water quality meets specification requirements

Client Follow Up

- Client plans to coat next tank

\$=USD



Corroded tank internal surface



Product mixing



Coated tank internals