



# CASE STUDY

## Repairing and Preventing Industrial Pipe Corrosion

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When a long-standing customer discovered significant corrosion during an external visual inspection, they turned to XCEL for quick and reliable solutions. Leveraging our expertise, we performed corrosion evaluation, remediation, and pipeline restoration.

### Challenge:

The client needed assistance to effectively:

- Assess the scope and severity of the corrosion across multiple piping lines.
- Replace damaged piping to minimize operational downtime.
- Apply long-term protection to prevent future corrosion.

## Solution:

XCEL's team took a step-by-step approach to repair and prevent corrosion onsite. The team:

- 01 Collaborated with the client's team, who pre-planned insulation removal to save time.
- 02 Conducted visual inspections, pit measurements, and used Digital Radiography (DR) to assess corrosion severity.
- 03 Replaced severely corroded piping sections to restore system integrity.
- 04 Sandblasted damaged areas to clean and prepare surfaces for coating.
- 05 Applied industrial-grade coatings tailored to the client's specifications.
- 06 Installed foam glass insulation to ensure thermal stability and prevent future corrosion.

## Outcome:

The project delivered lasting results and XCEL's team:

- Successfully replaced and restored compromised piping, eliminating immediate risks.
- Created an anti-corrosion barrier with specialized coatings and insulation.
- Completed the project on schedule with minimal disruption to operations.

## CTA:

At XCEL, we are committed to protecting your assets and maintaining system integrity with customized corrosion management solutions. Learn More about our range of mechanical and pipeline integrity services.