Safety/Cellular Antenna Corral System

I.K. Stoltzfus Service Corp
In 1959, Isaiah K. Stoltzfus started a tank painting company.
The Need For A Comprehensive Plan

- Unsecured Cable Cover
- No specific tie off locations
- Decommissioned antennas still on tank
- Antenna brackets tied to ladder
- Lack of design considerations
- No safety rails
Plan for Safety

- How are your antennas mounted?
- Were they installed correctly?
- Design for the load
- We provide a secure mounting system that can be easily adjusted
When to Upgrade?
Before:
Two Separate Systems

- No opening in Corral
- Ladder runs under Corral
- Not an OSHA compliant handrail
After:
Engineered to Work Together

- Entire system works together
  - Antenna Corral
  - Rigging Ring
  - Continuous Tie-Off Ring
  - Handrail to OSHA Standard
  - Roof Access Platform
  - Ladder
Consolidate Antennas in One Area
Visually Appealing for the Town/Community
Additional Safety for the Workers and Tank Owner

Before

After

Safety Gate & Walkway

Complete Access to Roof and Antennas

Rigging & Safety Tie-Off Rail
Four Carriers at Various Elevations

Antennas were moved to the tank from the cooling tower that was demolished.
The Tank Coating Process
Standardization

Potable water tanks provide a consistent exposure environment from one tank to the next.

Surface Preparation, Interior Coatings, and Exterior Coatings can be standardized to create consistent success across all structures.
Tank Interior Lining

- SSPC SP-10 Near White Metal Blast
- Application of zinc rich primer
- Stripe coat of brush-applied thin film epoxy
- Full lining of solvent-free 100% solids ceramic epoxy
Tank Interior Lining
Exterior Coatings

- SSPC SP 6 Commercial Blast
- Application of zinc rich primer
- Epoxy intermediate coating to provide barrier protection
- Fluorourethane finish coat to provide unmatched color and gloss protection
Fluorourethane
Recipe for Success

- The right team: manufacturer, contractor, inspector, engineer
- Long-term mindset
- Quality methodology
- Quality products