

CPSI Project Showcase - Particle Physics Piping

Problem: Corrosion of Evacuated Sub-Atomic Particle Beam Piping



Issues Relating to the Customer's Corrosion Problem:

- ◆ Buried high-energy/particle-beam/carbon-steel piping is vulnerable to corrosion failure
- ◆ If beam piping corrodes, vacuum is lost—shutting down high-energy physics research
- ◆ Research laboratory could not afford a corrosion failure on such critical infrastructure

Solution: Retrofit Rectified Anodes to the Buried Particle Beam Piping



Benefits of the Solution to the Customer's Corrosion Problem:

- ◆ Rectified-anode CP systems were installed at select locations along the beam piping
- ◆ Further corrosion is being mitigated through the application of cathodic protection
- ◆ Research facility can maintain its critical infrastructure knowing that corrosion is mitigated



CP Solutions, Inc.[®]
SUSTAINING INFRASTRUCTURE



For more information,
please visit the website:
www.cpsolutionsinc.net