Engineered Corrosion Solutions™

Complete Corrosion Control.

Engineered Corrosion Solutions, LLC
Project Case Studies – Mission Critical Data Centers

Type: Ultra-Secure Data Center
Project Name: NSA Utah Data Center*

ECS was contracted to provide corrosion management nitrogen generators as supervisory gas for the double interlock preaction fire sprinkler systems at the NSA Utah Data Center in 2012.

Governing Body: US Army Corps of Engineers
General Contractor: BDB – Balfour Beatty, DPR, and Big-D Construction Joint Venture
Fire Sprinkler Contractor(s): Fire Engineering Company, Aero Automatic Sprinkler, Rapid Fire Protection
Project Begin Date: Jan. 2012
Project End Date: Oct. 2013
Data Center Size: 100,000 sq ft of raised floor space
Fire Sprinkler Type: Double Interlock Preaction
Fire Sprinkler Piping: Galvanized Steel

Services Provided by ECS:

- Review all fire sprinkler design drawings
- Design nitrogen generator system for pressure maintenance gas
- Design monitoring system to ensure quality control of corrosion management system
- Commission all systems on site with facilities personnel, fire sprinkler contractors
- Provide training on operation and maintenance of the ECS corrosion management and nitrogen generation systems
- Provide owner's manual and operational protocols for all ECS corrosion management and nitrogen generation systems

Equipment Provided by ECS:

- ECS Nitrogen Generators – Eleven (11) nitrogen generators on the campus
- ECS Hand Held Gas Analyzers
- ECS SMART Dry Vents
- ECS Filter Maintenance Kits – Annual PM Protocol

Performance

Since the ECS equipment was installed and commissioned there have been no recorded operational problems and no recorded corrosion related leaks.

*Note that all information contained herein is publicly available

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