



NUCLEAR AND FOSSIL FUEL POWER PLANT COATINGS AND LININGS

United Engineers & Constructors has over 35 years of experience with nuclear power plant and industrial coatings and linings.

- Nuclear safety-related and balance of plant coatings for structures
- Pipe and tank linings
- Buried pipe rehabilitation
- Spray-in-Place Pipe (SIPP)
- Cured-in-Place Pipe (CIPP)
- Condition assessment and failure analysis

Specific expertise in coatings and linings in nuclear safety-related applications:

- Coating qualification
- Specification for procurement and application
- Application procedures
- Condition assessment of existing coatings
- Coatings failure analysis
- Training and personnel qualification (e.g., applicators, inspectors)

UNITED ENGINEERS &
CONSTRUCTORS IS AN
ACTIVE MEMBER OF ASTM
COMMITTEE D33 ON
PROTECTIVE COATING
AND LINING WORK FOR
POWER GENERATION
FACILITIES



DEEP EPRI KNOWLEDGE AND PARTICIPATION

Actively Participated in EPRI Protective Coatings Projects

- Co-developed EPRI “Guideline for Nuclear Safety-Related Coatings”
- Developed EPRI “Aging Assessment Field Guide” (1007933)
- Co-developed EPRI “Recommendations for an Effective Program to Control the Degradation of Buried and Underground Piping and Tanks (1016456, Revision 1)” (1021175)
- Developed EPRI “Plant Engineering: Aging Degradation of Coating Service Level I Coatings - Summary of EPRI Coating Aging Project Activities (1022964)
- Developed EPRI “Field Guide: Coatings Assessment” (1025323)
- Developed EPRI “Plant Engineering: Aging Degradation of Coating Service Level I Coatings – Summary of EPRI Coating Aging Project Activities” (3002000629)
- Co-developed EPRI “Balance of Plant Corrosion” - The Underground Piping and Tank Reference Guide: Revision 1” (3002000682)
- Developed EPRI “Aging Study of Buried Pipe Coatings” (3002008011)

Example Projects

- Developed a coatings program for nuclear safety related coatings (program description, specifications for procurement and application, application procedures)
- Developed specifications for qualification, procurement, and application of coatings applied as linings in safety related cooling water system
- Provided on-site coatings consulting services during successive outages for condition assessment and repair of linings in nuclear safety related cooling water system piping.
- Performed condition assessment of safety-related coatings inside reactor containment, recommended appropriate repair actions, and established relative priorities for the repair actions
- Performed condition assessment of various external structures (buildings, tanks, transmission towers, off-gas stack, etc.) and recommended appropriate repair actions
- Developed and provided training to NDE inspectors with coating experience for certification as LEVEL II Coatings Inspectors per ANSI N45.2.6 and ASTM D4537
- Designed, qualified, and installed cured-in-place pipe in safety-related Service Water to Emergency Feed Water cross-tie piping

About United

United Engineers & Constructors is an industry leading infrastructure engineering, procurement, construction and consulting company dedicated to improving lives by delivering the most impactful solutions. Since 1905, we have served the power industry by providing comprehensive lifecycle services for the nuclear, conventional generation, renewable, and distributed energy markets.

Together with our clients and partners, we are unified in our efforts to deliver innovative and transformative infrastructure that is designed and built to meet the demands of today and the future.

To learn more contact

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