

Leandro Etcheverry | Principal and Unit Manager



EDUCATION

- Cornell University
 - Bachelor of Science, Civil Engineering, 1993
 - Bachelor of Arts, Economics, 1993
 - Master of Engineering, Civil Engineering, 1994
- The University of Texas at Austin
 - Doctor of Philosophy, Civil Engineering, 1999

PRACTICE AREAS

- Corrosion Protection
- Condition Assessment
- Fire Damage Investigation
- Repair and Rehabilitation Design
- Cathodic Protection Specialist Services
- Litigation Consulting
- Nondestructive Evaluation
- Energy and Petrochemical Plant Special Structures
- Research and Testing

REGISTRATIONS

- Professional Engineer in AZ, FL, LA, and TX
- NACE-Certified Cathodic Protection Specialist

PROFESSIONAL AFFILIATIONS

- NACE International (NACE)

CONTACT

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EXPERIENCE

Leandro Etcheverry has experience related to evaluation of existing structures, corrosion mitigation in reinforced concrete structures, and development of repair and rehabilitation programs. He also has experience evaluating concrete material properties associated with strength deficiencies and process-related deterioration. Dr. Etcheverry has also been involved in evaluations and repairs within industrial facilities such as power plants, refineries, and chemical plants.

REPRESENTATIVE PROJECTS

Condition Assessment

- Arizona Public Service, Palo Verde Nuclear Generating Station - Tonopah, AZ: Corrosion-induced deterioration of Unit No. 1 Spray Pond
- Arizona Public Service, Palo Verde Water Reclamation - Tonopah, AZ: Several water treatment structures
- Duke Energy's Buck Power Plant - Salisbury, NC: Construction anomalies in concrete turbine pedestals
- Gulf Chemical and Metallurgical Corporation - Freeport, TX: Leakage into secondary containment under elevated slab
- Nova Southeastern University - Fort Lauderdale, FL: Corrosion of structural steel element in ice-water tanks
- Pasadena Refining System - TX: cursory assessment and prioritization of distress within UDEX unit
- Queen Isabella Memorial Causeway Bridge - South Padre Island, TX: Bridge substructure and existing thermally sprayed cathodic protection systems
- San Francisco Bay Bridge, CA: Evaluation of water presence within box girders supporting bicycle path
- Sulfur pits in petrochemical plants - TX and LA

Repair and Rehabilitation Design

- Arizona Public Service, Palo Verde Water Reclamation - Tonopah, AZ: Design of thermally sprayed zinc sacrificial cathodic protection for soffit of TF/FC sump roof
- Power Generating Station: Conceptual design of impressed current system for protection of natural-draft cooling tower veil

Cathodic Protection Specialist Services

- Rickenbacker Causeway - Miami, FL: Installation of twenty-two sacrificial jackets on prestressed concrete piles
- NASA John F. Kennedy Space Center: Utility Tunnel - Cape Canaveral, FL: Installation of sacrificial thermally sprayed zinc on tank wall
- Nueces Causeway - Corpus Christi, TX: Installation of sacrificial jackets and thermally sprayed zinc on 542 piles
- Arizona Public Service - Tonopah, AZ: Installation of 210 sacrificial jackets on columns within Trickling Filter 1

Litigation Consulting

- Pasadena Refining System - TX: Coke drum support structure fire incident investigation
- Querencia Retirement Community - Austin, TX: Evaluation of corrosion of water plumbing
- The Royalton at River Oaks - Houston, TX: Distress to building's architectural crown
- Twelve Oaks Tower - Houston, TX: Evaluation of fireproofing and corrosion of embedded structural steel

Research and Testing

- Strategic Highway Research Program, Federal Highway Administration: Evaluation of effectiveness of electrochemical chloride extraction, corrosion inhibitors, and cathodic protection

TECHNICAL COMMITTEES

- NACE International CORROSION 2014 Conference and Expo Symposium - San Antonio, TX: Electrochemical mitigation of reinforcement corrosion in concrete structures, chair
- NACE International CORROSION 2013 Conference and Expo Symposium - Orlando, FL: Assessment and control of reinforcement corrosion in concrete structures, vice chair
- NACE STG 01 - Reinforced Concrete, TG 047 - Sacrificial Cathodic Protection, vice chair