

LEONARD L. LEAL, P.E.

EDUCATION:

BSCE, Oklahoma State University, 1963
M.S. Engineering, Oklahoma State University, 1964

EXPERIENCE SUMMARY:

Over 40 years experience in the engineering, design, construction and management of environmental projects including hazardous waste incineration, land fill and remediation; wastewater treatment plants; and water treatment plants and distribution systems. Experienced with all RCRA and TSCA requirements.

PROFESSIONAL REGISTRATIONS:

Registered Professional Engineer, Texas (37263)(Inactive), Mississippi (4069)

CAREER HISTORY:

FORCON International - Environmental Consultant

- Consultant and expert witness for environmental claims investigations including claims and litigation associated with releases to the environment, hazardous waste handling, environmental impairment, ground water contamination, and waste water treatment and water treatment plants.

MPR Services, Inc. (A division of TKI, Inc.) - Dickinson, TX - Consulting Engineer

- Serves as contract Project Manager for a first of a kind water reuse treatment plant for a major oil production company. Project is located in the Uintah Basin in Utah, and will treat oil field production water for re - injection in the well field. Services included providing design concept and supervision of the detailed PFD, P&ID, General Arrangement, Piping Drawing preparation.

Consulting Engineer, Caswell Beach, NC

- Consulting Engineer to Cavanaugh & Associates for the process design of 16 wastewater treatment plants. Also to Veolia ES -Technical Services, LLC the design of hazardous wastewater treatment facilities at Azusa, CA and anaerobic waste treatment at Medina, OH.

Innovative Environmental Technologies, LLC -Richland, WA
Vice President of Industrial Services

- Responsible for all aspects of IET plasma gasifier plant sales and installation for major chemical and hazardous waste companies, including project definition, development of project documents (PFD, Layouts, installed cost estimates) and profitability proformas.

Molten Metal Technology, Inc. - Waltham, MA
Vice President, Industrial Services

- Responsible for sales, design, and construction of new MMT gasification plants. Served as Project Director of the \$ 72 million MMT hazardous gasification plant at Bay City, Texas, serving Celanese.

Rollins Environmental Services, Inc. - Wilmington, DE
Group Vice President of Engineering, Construction, Technology and Regulation

- Responsible for conceptualization, permitting, design, construction, and startup of all Rollins Environmental Services facilities. Projects included 3 new slagging kilns, one rotating fluidized bed, ash handling systems, afterburner chambers, gas cleaning trains, feed preparation including drum handling and shredding systems, hazardous waste landfills and stabilization and capsulation facilities. Over \$250 million in capital improvement were permitted and completed.
- Responsible for on-going assessment, delineation and execution of corrective action programs at all RES facilities including exhuming and incineration of drummed hazardous wastes, construction of composite slurry walls, interception and treatment of ground water plumes of contamination. Managed budget to stay within \$ 20,000,000 allocation per year.

3 D International Inc. - Houston, TX
Vice President, Engineering

- Responsible for sales, design, construction and administration of all civil engineering projects

CRS Group Engineers, Inc. - Houston, TX
President and CEO

- Total Responsibility for Consulting Engineering Firm with 8 U S offices and 2 Middle East offices with 600 employees

Clark, Dietz and Associates - Urbana, IL
President and CEO

- Headed Civil, Environmental engineering consulting engineering company with offices in Urbana and Chicago, IL, Jackson, MS, Sanford, FL, Memphis, TN, and St. Louis, MO. Environmental projects ranged from 150 MGD advanced wastewater treatment plant for the City of Indianapolis, IN to 250,000gpd contact stabilization package WWTP for Lexington, MS.

Clark, Dietz and Associates - Jackson, MS
Office Manager and Regional VP (Memphis, St. Louis and Jackson)

- Hired as a Resident Project Representative for the City of Jackson's new 36 MGD WWTP and 100 MGD Influent Pumping Station and to start a new southern office for CD&A.

Successfully developed environmental consulting business with 23 employees and which was the most profitable in the firm, within two years. Projects ranged from a 10 MGD activated sludge WWTP for the City of Columbus, MS to 11,000 gpm countercurrent flow ion exchange WWTP or nitrate removal at Mississippi Chemical's plant in Yazoo City, MS. and an 1.0 MGD anaerobic lagoon followed by a contact stabilization activated sludge WWTP for hog and cattle meat processing wastes at Bryan Foods, West Point, MS.

Reynolds, Smith and Hills - Jacksonville, FL

- Served as project engineer and project manager on architectural support projects, WWTP for the City of Gainesville, FL, Water treatment and distribution for the City of Hollywood, FL and WWTP for steel mill finishing wastes and palmetto fiber wastes.

The architectural support projects ranged from large cooling tower water treatment to ion exchange water treatment for a large naval hospital to treatment of aircraft engine repair wastes.

Bureau of Sanitary Engineering, Florida State Board of Health
Jacksonville, Florida

- Responsible for reviewing and approving plans and specifications for WWTP, sewage collection systems and pumping stations for Cities, Counties and developments throughout Florida. Also, conducted field inspections for wastewater plants in central Florida from Titusville to Kissimmee.