



## **Lillian M. Reyes, P.E.**

### *Professional Record*

Ms. Reyes is the chief electrical engineer for Electrical Design Associates, Inc. Ms. Reyes is experienced in designing electrical power distribution for municipal systems, water and wastewater treatment facilities, above and below ground distribution systems, lighting systems for parks, roadway, and industrial facilities, security and fire alarm systems for commercial and government buildings, manufacturing facilities, computer rooms, schools, hospitals and residential dwellings. Ms. Reyes project management responsibilities encompass preliminary and final design, cost estimating, and construction/start-up services.

### ***Experience:***

Ms. Reyes is experienced in electrical design for various projects with the private and public sector. Ms. Reyes was the project manager, in responsible charge, for all electrical design concerns for the following projects:

- Pembroke Pines 12 MGD WWTP  
City of Pembroke Pines, Florida
- Crane Strand Lift Station No. 249  
City of Orlando, Florida
- Lake Groves WWTP – Phase IV  
Lake Groves Utilities  
City of Clermont, Florida
- Lake Groves WTP – Phase IV  
Lake Groves Utilities  
City of Clermont, Florida
- Bulk Hypochlorite Feed Systems for Eleven (11)  
Water Treatment Facilities  
Orange County, Florida
- Orange County WTP, Repump & Elevated Storage  
Tank Electrical Evaluations  
Orange County, Florida
- WEDS SCADA Upgrade  
Orange County, Florida
- Fluoride Feed System (10 Sites)  
Orange County, Florida

### ***Academic Credentials:***

Bachelors of Science in Electrical Engineering  
Florida Atlantic University, 1988

Professional Engineer - Florida

### ***Employment Record:***

1998-Present: Electrical Design Associates, Inc.  
Owner/President,  
Chief Electrical Engineer

1996-1999: Bailey Engineering Consultants, Inc.,  
Electrical Engineer

1989-1996: International Business Machines, Corp.  
Senior Associate Engineer

1988-1989: Brabham Debay and Associates, Inc.  
Electrical Engineer

### ***Principal Areas Of Expertise:***

Electrical Design of Power Distribution, Lighting,  
Security and Fire Alarm Systems for Environmental,  
Municipal and Commercial Projects

Electrical Cost Estimating

### ***Professional Activities:***

Florida Engineering Society (FES)  
Illuminating Engineering Society (IES)  
National Fire Protection Association (NFPA)



## *Electrical Design Associates*

### **William R. Haygood, P.E.**

#### *Professional Record*

Mr. Haygood is a mechanical engineer qualified in the specialties of heating, ventilation, and air conditioning (HVAC); fire protection; and plumbing for commercial, institutional, and industrial projects. His specific design experience includes life cycle analysis, value engineering, and construction administration for wastewater treatment plants, schools, hospitals, and industrial facilities. He has substantial experience in the design and installation of microprocessor, pneumatic, and electrical/mechanical controls and controls systems.

#### ***Experience:***

Mr. Haygood provides various mechanical engineering services involving design and construction oversight for HVAC, fire protection, and plumbing systems. His experience is applied from the conceptual through the construction phases of a project and may include design, analysis of alternatives, shop drawing review, contractor and vendor interface, periodic site visits for field observations, change order review, and mechanical inspection, testing, and design review. He also evaluates various energy reduction improvements for facilities and prepares both maintenance and operating cost estimates.

- Orange County 6 of 14 Pump Stations  
Orange County, Florida
- Scott Chandler WTP  
HVAC & Fire Protection  
DeKalb County, Georgia
- R.L. Sutton WWTP  
Plumbing & Fire Protection  
Cobb County, Georgia
- Water Conserve II –  
Master Pump Station Improvements  
City of Orlando, Florida
- Crane Stand Lift Station 249  
City of Orlando, Florida
- Pembroke Pines 12 MGD WWTP  
City of Pembroke Pines, Florida
- Lucas WWTP HVAC Technical Review  
City of Baton Rouge, Louisiana

#### ***Academic Credentials:***

Bachelors of Science in Mechanical Engineering  
University of Central Florida, 1983

#### **Professional Engineer:**

Florida (1988) No. 39503  
Virginia (1990) No. 21068  
NCEE National (1990) No. 9413  
North Carolina (1996) No. 021505  
South Carolina (1995) No. 17193  
Georgia (1996) No. 22511  
Kentucky (1996) No. 18985

#### ***Employment Record:***

2000-Present: Electrical Design Associates, Inc.  
Chief Mechanical Engineer

1992-2000: Camp Dresser & McKee, Inc.,  
Orlando, Florida,  
Chief Mechanical Engineer

1989-1992: C.E. Bailey & Associates, Inc.,  
Orlando, Florida,  
Chief Mechanical Engineer

1987-1989: Sverdrup Corp., Orlando Division,  
Orlando, Florida  
Mechanical Engineer

#### ***Principal Areas Of Expertise:***

Mechanical Design for life cycle analysis, value engineering and construction administration for wastewater treatment plants, schools, hospitals, and industrial facilities.

#### ***Professional Activities:***

American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE), Chairman of Energy and Technical Affairs Committee, Central Florida Chapter, 1988  
National Fire Protection Association (NFPA)



*Electrical Design Associates*

## Professional Record

Mr. Newton is an electrical engineer with almost 30 years experience in planning, designing and installing control systems. The majority of this experience has been in the water and wastewater industries. During this time he has managed multi-million dollar projects for a water/wastewater control system supplier as well as providing consulting engineering services to those industries for over 14 years.

Mr. Newton has designed plant control systems for water and wastewater treatment plants with capacities up to 200 MGD as well as SCADA systems for lift station collection facilities, water distribution pump stations, and reclaimed water systems. He has developed strategic automation plans for some of the largest utilities in the country. Such plans have covered all aspects of a utility's operation including plant automation, maintenance management, customer service, GIS and engineering.

Mr. Newton is experienced in many different water and wastewater treatment processes. He has also utilized a number of different procurement strategies to ensure the optimum system is obtained while remaining within a particular utility's procurement policies.

Over the years, Mr. Newton has provided engineering services to many utilities. The following is a partial list:

Plant Control and/or SCADA Systems:  
Memphis Wastewater Dept, TN  
Fairfax County Water Authority, VA  
Fort Lauderdale Water/Wastewater, FL  
Detroit Wastewater Dept., MI  
Orlando WW, FL  
Little Rock WW Dept, AR  
Lakeland Water Dept., FL  
Indian River Co. Water, FL  
Chesterfield Co. Water Dept., VA  
Orange Co. WW Dept., FL  
Dunedin Water Dept, FL  
Kissimmee Wastewater, FL

Strategic Automation Planning/Business Process Reengineering:  
Pinellas Co. Water/wastewater, FL  
Broward Co. Environmental Services, FL  
South Florida Water Management District, FL  
Charlottesville Water & Sewer, VA  
Fort Lauderdale Water/Wastewater, FL  
Jacksonville Water/wastewater, FL  
Miami-Dade Water & Sewer, FL

## John R. Newton Sr. Instrumentation Designer

**ELECTRICAL DESIGN ASSOCIATES, INC.**

### Academic Credentials:

Bachelors of Electrical Engineering  
Newcastle Polytechnic, England, 1975  
Digital Electronics

Certificate in Management  
AMA Extension Inst., Piedmont College, NC, 1986

### Employment Record:

2002-Present-Electrical Design Associates, Inc.  
2000-2002 – Machine Technology & Control  
1996-2000 – Westin Engineering  
1992-1996 – EMA Services  
1988-1992 – Camp, Dresser & McKee  
1980-1988 – Simmonds Precision  
1975-1980 – Sperry Gyroscope  
1970-1975 – International Computers Ltd

### Principal Areas of Expertise:

Planning, Design, and Implementation of Instrumentation and Control Systems for Water and Wastewater Treatment Facilities and Pump Stations

Telemetry Subsystems

Business Process Reengineering for Water and Wastewater Utility Efficiency Improvements

All Phases of Project Management

### Publications:

“Control of large water pumping stations more than just a remote possibility”.  
Annual AWWA Conference, Miami, FL, 1995  
J. Newton and J. Branscome (SFWMD)



*Electrical Design Associates*

**Professional Record**

Mr. Meeks is an electrical designer experienced in designing lighting and power systems for water and wastewater treatment facilities, above and below ground distribution systems and industrial facilities. His electrical designing responsibilities encompass all aspects of drawing production, as well as system design.

**EXPERIENCE**

Mr. Meeks is experienced in electrical design. He has been involved in the electrical system design on a variety of environmental projects. His experience includes electrical designs for water treatment plants, water reclamation facilities and water reuse projects, and lighting projects. A sample of projects in which Mr. Hensley was involved is as follows:

- Bella Lago Water Treatment Facility  
Orlando, Florida
- Lake 14-1 and Higgins Lake, The Villages  
Irrigation Pump Station Electrical, Lightening  
Protection, Lighting and HVAC  
Sumter County, Florida
- Executive and Championship Golf Courses,  
The Villages - Electrical, Lightening, HVAC,  
Protection, Power, Pump Station, Lighting  
Sumter County, Florida
- V.W.C.A., The Villages Irrigation Pump  
Station Nos. 1 & 2 - Electrical, Lightening  
Protection, Power, Chlorination System,  
Lighting and HVAC  
Sumter County, Florida
- North Sumter Utility Company, The Villages –  
Water Treatment Plant No. 1 Electrical, Well  
Building Power Plan, Lighting, Lightening  
Protection, Instrumentation  
Sumter County, Florida
- Margate Lift Station Improvements  
City of Margate, Florida
- Sanford Augmentation Phase IIC  
Sanford, Florida

**Ryan Meeks  
Electrical Designer**

**ELECTRICAL DESIGN ASSOCIATES, INC.**

**Academic Credentials:**

Advanced AutoCadd Training of Sheridan Vocational  
Technical Center – Hollywood, Florida

Certification in Architectural and Civil Engineering

**Employment Record:**

12/02 – Present	Electrical Design Associates Fort Lauderdale, FL
3/00 – 12/02	Petropac Solutions. Inc. Davie, FL
2/94 – 10/99	Sunset South Thermographers Pompano Beach, FL

**Principal Areas of Expertise:**

Electrical Design of Lighting and Power Systems for  
Environmental, Municipal and Commercial Projects