

# MANUEL SILVA SEGARRA, PE

## ELECTRICAL ENGINEER

### EDUCATION

#### **Bachelor Degree in Science of Electrical Engineering**

University of Puerto Rico, Mayaguez Campus

**1992**

#### **Registered Professional Electrical Engineer - Puerto Rico (Lic #13359)**

**1995**

### PROFESSIONAL AFFILIATIONS

College of Engineers and Surveyors of Puerto Rico (CIAPR)

### SKILLS

- Power systems distribution engineering, design, planning and operations.
- Operation, maintenance, and construction of electrical power transmission, distribution and generation systems.
- Electrical systems applicable standards and regulations (IEEE, NEMA, ANSI, ADA), codes (NFPA, NESC), and practices.
- NFPA-70 (NEC) and NFPA-70E electrical workplace safety standards.
- Project management skills, capable of multitask major electrical design projects.
- Ability to work well in a team environment with other disciplines such as architectural, structural, mechanical, plumbing, and fire protection.
- Proficient in public speaking, presentations and explaining complex technical topics.
- AutoCAD, Power Tools, Visual.
- Over 20 years of experience in the electrical engineering trade.

### MAJOR ELECTRICAL PROJECTS

#### **• Pharmaceutical Facilities**

- Designed of new manufacturing facilities on buildings PC1, PC2, PC6 and PC8 for Eli Lilly Industries, Carolina, PR, \$7M.
- Designed new 40,000 square-foot production plant expansion project for Corange Laboratories, Ponce, PR \$10 M.
- Designed new administrative offices and laboratories for Ortho Biologics, Barceloneta, PR \$5M.

#### **• Residential Developments**

- Designed Ciudadela Residential Complex at San Juan, PR 12 MVA, 13.2 kV distribution underground system for service to the seventeen residential buildings for a total of new 500 living units, commercial facilities and a four-level underground parking, \$15M.

#### **• Shopping Centers**

- Designed Las Catalinas Mall with more than one hundred retail stores, \$10M.

#### **• Symphony Hall**

- Designed the electrical facilities for the first symphony hall in Puerto Rico including the new 5 MVA, 38 KV electrical substation to serve the new symphony hall and the existing facilities of Centro de Bellas Artes, \$6M.

### PRESENTATIONS AND PROFESSIONAL PANELS

- Electrical Systems for Sanitary Pumps Stations Design Course at the College of Engineers and Land Surveyors of Puerto Rico (CIAPR), 2002.
- Puerto Rico Power Authority Electrical Designers Committee for the Revision of the National Construction Standards Specifications, 1998.