



Areas of Expertise

International Residential Codes
International Building Codes
Life Safety Code
Program Management
Chemical Engineering
Fluid Engineering
Civil Engineering
Structural Engineering
Environmental Engineering

Education

MS/1987/Civil-Environmental
Engineering /University of Louisiana
BS/1979/Chemical
Engineering/University of Louisiana

Registration/Certification

1983/Professional Engineering/
LA/20812
1999/Professional Engineering/
AR/9756
2001/Professional Engineering/
TX/88058
2006/Professional Engineering/
OK/22231
2010/Professional Engineering/
MO/2010011662
2014/Professional Engineering/
TN/00117722
2015/Professional Engineering
MS/26300
2017/Professional Engineering/
IL 062-069841

National Council of Engineer
Examiners Certification as Model
Engineer-2005

Rene J. Borrel, PE

Principal Engineer

Overview

Before the hurricane season comes each year Borrel Engineering, LLC (BE) develops risk mitigation measures for the City of Marksville, LA that reduce the frequency, intensity, scale and impact of hazards on the low line areas brought by potential hurricanes. Preparedness meetings and planning with City officials are conducted which include systems that monitor and predict the occurrence of flood hazards as well as contingency plans for effective response and recovery which can be implemented by the City.

BE's professional engineers are also responsible for influencing and encouraging the City to become involved in reducing identified risk from flooding and wind damage. Furthermore, our engineers have the task to develop and construct infrastructure with high natural disaster resistance.

SPECIFIC EXPERIENCE

Mr. Borrel has over 39 years of engineering and consultancy experience. His infrastructure background includes Lead Engineer on multiple projects for the City of Marksville, LA, Naval Bases at Marathon and Key West, Florida, Village of Moreauville, LA, Marksville Housing Authority (HUD) and Avoyelles Parish Water Commission. Work in private industries includes Process, Civil, Structural, and Environmental Engineering as well as project management. Mr. Borrel has inspected over 6,000 residences for HUD Building Compliance.

Mr. Borrel instituted the enforcement of the International Building Codes for the design and construction of all structures within the City of Marksville, City of Bunkie and Village of Moreauville including the use of ASCE 24-05 (Flood Resistant Design and Construction) as well as training courses for the Avoyelles Police Jury on the implementation of construction codes for the parish.

Mr. Borrel has been the Marksville City Engineer for the past 10 years and was recently appointed by the new mayor and administration for an additional 4 years. He also serves in the



capacity as the City Building Official and Flood Plain Manager, reviewing all plans for new or renovation construction as well as construction inspections.

Mr. Borrel is also a practicing structural engineer. Projects include a \$30M renovation of a 14 story boiler building in DeRidder, LA. He has served as the lead engineer and Project Manager on this project. The project entails the design of replacement steel and concrete members as well as the renovation of existing steel members, storm water drainage redesign to comply with local flood plain management criteria and building code upgrades.

He has been accepted in District and Federal courts as an expert in Civil and Structural Engineering as well as Flood Plain Management.

Mr. Borrel has extensive experience in designing foundation systems for residential, commercial and floating structures. He has inspected and rendered professional opinions on over 6,000 foundations in his career.

Professional Societies/Affiliates

American Council of Engineering Companies (ACEC)
Technical Association of Pulp and Paper Industries (TAPPI)
American Institute of Chemical Engineers (AIChE)
American Society of Civil Engineers (ASCE)
Louisiana Engineering Society (LES)
National Society of Professional Engineers (NSPE)
NCEES Model Law Engineer
Building Officials Association of Louisiana (BOAL)
National Fire Protection Association

Specialized Training

2015 NFPA 101 Life Safety Code
IBC and IRC 2015 trainer
Member of the Joint Commission of Accreditation of Healthcare
Instrument Rated Private Pilot
