



Knowledge | Experience | Solutions

BUILDING EXTERIOR SOLUTIONS

A Terracon COMPANY

EXPERIENCE

Mr. McElvogue joined BES in 2010 with 17 years of experience in engineering in conjunction with over 20 years in the construction industry. Primarily, he has worked in the field of forensics/engineering investigation and assessment with emphasis on light framing system analysis and design, as well as, cladding and waterproofing evaluations. Mr. McElvogue has served as project and engineering team manager for complex projects involving both assessment and repair design/construction. He has utilized and developed both invasive and non-destructive observation and test methods, specialized surveying and materials/component testing, and difficult access such as rope and confined space. In addition to his engineering expertise, Mr. McElvogue serves as BES Safety Program Manager, his local community as a firefighter and emergency medical technician (EMT), and the State of Texas and FEMA as a Structures Specialist with Texas Task Force One (Urban Search and Rescue). This unique experience and background has equipped Mr. McElvogue to safely and effectively manage and perform physically and logistically challenging observations, evaluations, and assessments.

REPRESENTATIVE PROJECTS

Building Envelope Assessment

- Metal building envelope failure, Longview, Texas *
- Granite clad commercial high-rise evaluation and repair design, Houston, Texas
- Combined commercial high-rise and retail center, New Orleans, Louisiana *

Construction Observation

- Granite cladding stabilization and replacement repair, Houston, Texas

Rope and Difficult Access

- Underwater investigation of 50-meter pool membrane failure, Victoria, British Columbia, Canada*
- Permit required confined space inspection of subgrade concrete tank, Chatom, Alabama*
- 23 story brick clad condominium rope access distress evaluation, Houston, Texas

Masonry Walls and Cladding

- Water and vapor intrusion of retail building split-faced masonry wall system, Brownsville, Texas*
- Brick cladding evaluation and repairs, Houston, Texas
- Brick and stone historic facility evaluation and repair design, Houston, Texas

Non Destructive Testing

- Precast double-tee x-ray, retail center, Houston, Texas*
- Steel-stone composite panel metal detection survey, commercial high-rise, Houston, Texas*
- Ground penetrating radar evaluation of warehouse slab-on grade, Houston, Texas*
- Ground supplied spray rack water test of 9 floor commercial mid-rise, Houston, Texas
- Large volume full day spray rack water test of commercial airport roof, Houston, Texas

Structural Collapse

- Hurricane-related complete roof and partial wall failure of metal building, New Orleans, Louisiana*
- Hurricane-related roof collapse of combined retail facility, Port Arthur, Texas*
- Industrial gas bottling facility explosion emergency response, La Porte, Texas

Windows and Curtainwalls

- High-rise office building glass/zipper gasket system field repair observation and consultation, Houston, Texas
- Mid-rise office building curtain wall and window wall evaluation and assessment, Austin, Texas

PUBLICATIONS

The Lamar Tower (Houston, TX) Report Writing Second Place

- Interface Magazine/RCI International, July 2012

Waterproofing Design and Construction Coordination and Sequencing

- 28th RCI International Convention and Trade Show, March 14-19, 2013 (Co-Published with Jerry Abendroth, P.E., RWC, RRO)

Know the Rules-One Size does not Fit All in Fall Restraint and Positioning

- Applicator Magazine/Sealant Waterproofing and Restoration Institute (SWRI), July 2013
- (Reprinted) Interface Magazine/RCI International, February 2014

**Projects performed prior to joining the BES team*

MATT MCELVOGUE

Senior Associate



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EDUCATION

University of Arkansas
Bachelor of Science in Civil
Engineering, 1993

REGISTRATION

Professional Engineer in
Alabama, Arizona, Colorado,
Georgia, Louisiana, New
Mexico, Nevada, North
Carolina, Tennessee, Texas
Registered Waterproofing
Consultant (RWC-RCI)
Registered Roof Observer (RRO-
RCI)

PRACTICE AREAS

Building Envelope Assessment
Construction Observation
Rope Access
Masonry Walls/Cladding
Non-Destructive Testing
Structural Analysis & Design
Structural Collapse
Tanks and Swimming Pools
Windows and Curtainwalls

PROFESSIONAL AFFILIATIONS

RCI International
American National Standards
Institute (ANSI) Z359.8 Sub
Committee
Society of Professional Rope
Access Technicians (SPRAT)-
Level 3 Rope Access
Technician
Fall Protection Qualified Person
(Capital Safety)
Texas Task Force One (Urban
Search and Rescue)-
Structures Specialist (FEMA,
US Army Corps of Engineers)
Hazardous Materials Operations
(NFPA)
Structural Collapse Technician
(NFPA)
Rope Rescue Technician (NFPA
1006-L1)
Emergency Medical Technician
(EMT)