



EXPERIENCE

Mr. McElvogue joined BES (a Terracon Company) 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 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

Rope and Difficult Access

- Underwater investigation of 50-meter pool membrane failure, Victoria, British Columbia, Canada*
- Permit required confined space inspection of wet vault backup chiller storage tank, Houston, Texas
- 23 story brick clad condominium rope access distress evaluation, Houston, Texas

Masonry Walls and Cladding

- 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 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

Litigation Support

- Warehouse and manufacturing facility concrete slab and steel structural assessment, Fort Worth, Texas
- New low-rise brick clad office and sales facility structural frame, wall cladding, and low-rise roofing assessment, Fort Worth, Texas
- New military low-rise institutional building curtain wall completion and bond dispute, Central Texas
- Mid-rise hospital wall cladding and roofing failure investigation, Central Texas
- Low-rise independent and assisted senior living center cladding and roofing investigation, Central Texas

MATT McELVOGUE

Director of Building
Enclosure Services



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EDUCATION

University of Arkansas
Bachelor of Science in Civil
Engineering, 1993

REGISTRATION

Professional Engineer in
Alabama, Colorado, Georgia,
Oklahoma, Nevada, North
Carolina, 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
Litigation Support

PROFESSIONAL AFFILIATIONS

RCI International
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
(NFFPA)
Structural Collapse Technician
(NFFPA)
Rope Rescue Technician (NFFPA
1006-L1)

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

Construction Observation

- Granite cladding stabilization and replacement repair, Houston, Texas

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

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 (A Terracon Company) team*