BAKERRISK
San Antonio

TRAVIS J. HOLLAND, P.E.

Senior 2 Engineer

Supervisor - Structures

BAKER ENGINEERING AND RISK CONSULTANTS, INC.

Education:

B.S., Civil Engineering, Texas A&M University

M.S., Civil Engineering, University of Texas at San Antonio

Areas of Practice:

Mr. Holland works at BakerRisk's San Antonio office in the Structures group. His work at BakerRisk focuses on the evaluation and design of structures subjected to both conventional and impulsive loading conditions. He has performed structural designs for government and commercial clients.

Experience:

- Work with commercial clients has included the analysis of existing buildings to postulated blast loads and the development of structural upgrade designs for buildings predicted to sustain higher levels of damage.
- Analyzed many control rooms, office buildings, warehouses, laboratories, and shops for blast loads from a variety of explosions, including vapor cloud explosions and bursting pressure vessels.
- Familiar with the analysis and design of windows, reinforced and unreinforced masonry buildings, reinforced concrete structures, steel framed buildings, and wood construction. Through his design experience, Mr. Holland has become familiar with the "Structures to Resist the Effects of Accidental Explosions (UFC 3-340-02)" and ASCE's "Design of Blast Resistant Buildings in Petrochemical Plants."
- Performed siting studies and risk studies for refineries, chemical processing facilities, and other industrial facilities to evaluate the effects of an explosion and thermal hazards on facilities and personnel. These have included identification of conditions that could lead to an explosion, prediction of blast loads from such an event, and determination of building damage from associated blast loads.
- Managed engineering programs to calculate the internal air temperature and thermal radiation within a building given specific thermal event. He has been the lead structural engineer or project manager for many of these projects.
- Participated in accident investigations at industrial facilities, documenting explosion damage, and collaborating with blast effects engineering to determine the magnitude of the explosion.
- Work with government clients includes the analysis of existing Department of Defense (DoD) buildings in response to impulsive loadings. Through his work with DoD structures, Mr. Holland is familiar with the "Design of Buildings to Resist Progressive Collapse (UFC 4-023-03)" and the "DoD Minimum Antiterrorism Standards for Buildings (UFC-4-010-01)."

Professional Chronology:

Baker Engineering and Risk Consultants, Inc. (Intern, 2005-2006; Consultant, 2006-2007, Project Consultant I, 2008-2009, Project II Consultant, 2009-2011), Senior Engineer (2011 - Present).

Professional Registrations/ Certifications

Professional Engineer (Texas #107397, Arkansas #15075, Colorado #0054747, Georgia PE040156, Wisconsin E-42813-6)

Professional Memberships:

American Society of Civil Engineers (ASCE), American Institute of Steel Construction (AISC), Texas Society of Professional Engineers (TSPE)