



18500 Trails End Road
Conroe, TX 77385

AKANSHA KHANDELWAL, P.E
SENIOR CONSULTANT

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Ms. Khandelwal is a Senior Consultant for Engineering Systems Inc. (ESi), where she works with the Structural and Civil Engineering team and Fire and Explosion Practice. She has over 14 years of experience performing assessment and design of structures for explosion and fire hazards for all building types. She has performed new building design and retrofit of existing structures in petrochemical facilities in North America, South America, Europe, and Asia. In addition to buildings, Ms. Khandelwal has also evaluated process equipment, piping, fire-water tanks and associated systems from explosion hazards as part of incident investigations, business interruption and emergency response studies. She has led studies for design of test enclosures for blast loads, high pressure water spray and fragment penetration for down-hole tool industry.

She has led forensic evaluation of buildings and process equipment after explosion and fire incidents. She also has experience performing fire & explosion risk assessments and safety, risk, and hazard evaluations for chemical processing facilities, including oil & gas.

Areas of Specialization

Hazard & Risk Assessment
Chemical & Petrochemical
Construction Defects
Commercial Structures

Education

M.S., Structural Engineering, University of Texas, 2007
B.S., Tech: Civil Engineering, Indian Institute of Technology, 2004

Licensed Professional Engineer (P.E.)

State of Texas License No.108678

October 2021

Professional Affiliations

Texas Society of Professional Engineers

Professional Member

American Society of Civil Engineers

Professional Member

American Institute of Steel Construction

Professional Member

Positions Held

Engineering Systems Inc. (ESi), Houston, Texas

Senior Consultant, 2021 - Present

Baker Engineering & Risk Consultants

Senior Project Engineer, 2007 – 2021

Baker Engineering & Risk Consultants, San Antonio, Texas

Intern, 5/2006 – 7/2006

Oracle India Ltd, Hyderabad, India

Application Engineer, 2004-2005

Publications & Presentations:

Khandelwal, A. and Smith, P. "A Strategic Approach to Occupied Building Risk Assessment",

European Process Safety Council Webinar, March 2020, EPSC

Khandelwal, A. and Dyer, J. "New Building Siting Using Risk Based Approach", 11th Global

Congress on Process Safety 2015, AIChE

Dyer, J. and Khandelwal, A. "Design of Buildings in Petrochemical Facilities – Risk Based

Approach", 4th Process Safety Technical Exchange Meeting 2001, Saudi Aramco

Dyer, J. and Khandelwal, A. "Design of Connections Between Precast Elements for Ductile

Behavior Subjected to Impulsive Loading", Hazards Asia Pacific Symposium 2011,

ICChemE