



THEWAY CORP.

Failure Analysis / Engineering / Energy Consultants
Electrical, Mechanical, Petro-chemical
www.TheWayCorp.com

PO Box 33124
Tulsa, OK 74153-1124
918-496-8709
mod@thewaycorp.com

ABOUT US

THEWAY Corp. is a *failure analysis* firm engaged in electrical, mechanical, and petroleum engineering. We have engineers who are licensed in OK, AR, LA, TX, NM, KS, MO, NC, VA, NH, and CA. We maintain national records with NCEES; therefore, we can become licensed in any state where clients require services.

Failure analysis has two perspectives – first, research on products to create failures and second, investigation of the cause of failures after an incident such as a fire or water. In the first facet, we conduct research for major clients testing their product until it fails. In the second facet of failure analysis, we support the insurance and legal communities in subrogation, defense, and liability risk. *What can we do to help you solve your problems?*

LAB

We have established the premier high-voltage research laboratory in the region. Our research on lightning, grounding, and power systems has been ground-breaking, resulting in numerous publications. Our electrical analysis equipment is second to none. In addition, we have other lab equipment including microscope with computer interface for viewing and recording, ultrasonic cleaner, high pressure air, myriad test instruments, appliance power bar for power-on testing of any appliance, and tools to disassemble equipment from computers to appliances and bulldozers. Our location allows research with sparks, temperature & pressure, and explosives.

SERVICES

Our lab facilities permit us to provide a unique service for fire and failure investigations. Some losses are well-defined in terms of area or equipment that contributed to the incident. For risk and losses that support the concept, the Origin & Cause investigator collects the items and arranges delivery to our lab for analysis.

Our engineers and consultants can conduct a more detailed analysis at less cost to the client. For certain investigations, we have established a not-to-exceed cost for the client. This is very cost effective for small, mid, and large losses. *Our professionals provide premier service and experience at a competitive price point.*

PROFESSIONALS

Dr. Marcus O. Durham, BS, ME, PhD, Principal Engineer, electrical & petroleum engineering

Background: power systems, petro-chemical, academia, 40+ years

Publications: over 130 articles and papers, 7 books, and 5 e-books

Fellow, Institute of Electrical & Electronics Engineers
Life Fellow, American College of Forensic Examiners Int'l
Life Senior Member, Society of Petroleum Engineers
Diplomate, Am Board of Forensic Engineering & Tech
Licensed Professional Engineer - multiple states
Licensed Electrical Contractor
Licensed Commercial Radiotelephone & Amateur Extra

Certified Fire & Explosion Investigator, NAFI
Certified Homeland Security, ABCHS
Member, Int'l Assoc of Arson Investigators-OK
Member, IEEE Standards Association
Voting Member, Nat'l Fire Protection Assoc - Electrical
Professor of Electrical Engineering, U of Tulsa

Dr. Robert A. Durham, BS, MS, PhD, Chief Engineer, electrical & petroleum engineering

Background: energy, utility systems, petro-chemical, 20+ years

Publications: over 40 articles and papers, 3 books, and 2 e-books

Sr Member, Institute of Electrical & Electronics Engineers
Certified Fire & Explosion Investigator, NAFI
Licensed Professional Engineer - multiple states
Licensed Electrical Contractor

Cert. Forensic Consultant, Am. College of Forensic Examiners
Member, Int'l Assoc of Arson Investigators-OK
Member, IEEE Standards Association
Voting Member, Nat'l Fire Protection Assoc - Electrical

E. Brook Durham, BS, Chief Mechanical Engineer, mechanical engineering

Background: petro-chemical, manufacturing, consulting, 15+ years

Publications: 2 papers on emerging technologies

Licensed Professional Engineer - multiple states
Cert. Forensic Consultant, Am. College of Forensic Examiners
Member – American Society of Mechanical Engineers

Certified Fire & Explosion Investigator, NAFI
Voting Member, Nat'l Fire Protection Assoc-Engr & Bldg Off.
Member, Int'l Assoc of Arson Investigators-OK

Jason Coffin, BS Computer Science, MBA, Technical Consultant, computer & telecommunications consultant

Background: telecommunications, computer technology, construction, 10+ years

Publications: one paper, one e-book on *Electrical Failure Analysis for fire and incident investigations*

Certified Fire & Explosion Investigator, NAFI
Member, Int'l Assoc of Arson Investigators-OK

Certified Lead Renovator, EPA
Member, Int'l Assoc of Arson Investigators-AR