



Advanced Engineering Investigations

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**CHARLES R. BROWN, III, CFEI, CVFI, CETP, IAAI-FIT**  
**Project Consultant**  
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Mr. Brown joined AEI after 20 years in the propane industry and 11 years in the natural gas industry. He is an expert in code analysis, interpretation, implementation, compliance, standard of care, training, and safety as they relate to the propane and natural gas industries. Mr. Brown has significant experience and expertise in the design, installation, inspection, testing, maintenance, repair, and operation of residential, commercial, and industrial propane systems and their components. Mr. Brown also has extensive experience in fabrication, installation, inspection, testing, maintenance, repair, and operation of residential and commercial natural gas distribution systems. He has extensive experience in commercial motor vehicle and heavy equipment operation, inspection, maintenance, and repair.



**EDUCATION**

Apprentice Welder Program Gas Mechanical Shop, 1992  
Natural Gas Service Fitter Cross Training, 1992  
40 Hour Hazardous Material Handling Course, 1989  
Southern Gas Association-Natural Gas Distribution, 1987  
Natural Gas Street Fitter Apprenticeship, 1986-1990  
EMS First Responder Program, 1986  
Brighton High School/Vocational Welding, 1978

**CERTIFICATION & LICENSURE**

Certified Fire & Explosion Investigator (CFEI), National Association of Fire Investigators (NAFI)  
Certified Vehicle Fire Investigator (CVFI), National Association of Fire Investigators (NAFI)  
Propane Education Research Council (PERC) Certified Employee Training Program (CETP)  
International Association of Arson Investigators (IAAI) Fire Investigation Technician (FIT)  
Colorado Commercial Driver License, Class A, Tanker, HAZMAT  
Public Service Company of Colorado, Journeyman Welder  
Public Service Company of Colorado, Journeyman Gas Fitter  
Public Service Company of Colorado, Service Fitter  
Colorado Commercial Driver License, XM endorsements, Present-2023

**WORK HISTORY**

Project Consultant, *AEI Corporation*, 2017-Present  
Branch Manager, *Independent Propane*, 2005-2017  
Field Operations Manager, *Independent Propane*, 1999-2005  
Vehicle Maintenance Shop Supervisor, *Independent Propane*, 1997-1999  
Vocational Instructor, Basic Electricity & HVAC Controls, *Red Rocks Community College*, 1999-2004  
Heavy Equipment Operator, *Public Service Company of Colorado*, *Bernard's Custom Construction*, *High Country Trucking*, and *Personal Use*, 1978-Present  
Custom Home Builder, *Bernard's Custom Construction*, 1995-1996  
Gas Journeyman Fitter/Welder, *Public Service Company of Colorado*, 1986-1995  
Boiler Operator/Tender, *Public Service Company of Colorado*, 1984-1986  
Firefighter, Captain, *Brighton Volunteer Fire Department*, 1982-1991

Welder Fabricator, *Condor Engineering*, 1982-1984  
Welder Fabricator, *Timpte Beall*, 1978-1982

## **EXPERIENCE**

Mr. Brown has worked in all the main areas of the propane industry. He has been a bobtail truck driver, service technician, vehicle mechanic, route supervisor, purchasing agent, safety instructor, field operations manager, and branch manager. During his 20 years in the propane industry, Mr. Brown has set ASME tanks, installed and repaired gas systems and appliances, delivered propane, requalified and filled DOT cylinders, performed annual inspections related to the DOT certification of cargo vehicles, provided safety instruction, evaluated safety performance from a conformance standpoint, and conducted code compliance reviews. In addition to propane systems, Mr. Brown has extensive experience with residential and commercial natural gas distribution pipeline installations, meter sets, and regulator stations from his work as a journeyman gas fitter and welder. His experience includes pipeline welding, hot tapping, and casing boring, in addition to hands-on experience related to HVAC controls and basic electricity, as well as boiler operation. Mr. Brown also has hands-on experience related to firefighting, emergency response, fire science, arson investigation, and heavy equipment operation (backhoe, track loader, tandem dump truck, skid-steer loader, telescoping crane, trolley crane, excavator, and small dozer).

## **AFFILIATIONS**

National Propane Gas Association (NPGA), Technology, Safety & Standards (TS&S) Committee, 2000-Present  
Colorado Propane Gas Association (CPGA) (President, 2014-2016; Vice President, 2012-2013, 2016-2017)  
National Association of Fire Investigators (NAFI), Member (2017-Present)  
International Association of Arson Investigation (IAAI), Member (2017-Present)  
NFPA Technical Committee on National Fuel Gas Code (NFPA 54), Member (2020)  
NFPA Technical Committee on Liquefied Petroleum Gas (NFPA 58), Member (2020)  
NFPA 59 Technical Committee on Utility Gas Pans (NFPA 59), Member (2022)