



**The Augustus Group**  
**Norman H. Brock Jr – Principal Consultant**

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## **SUMMARY**

An extensive 35+ year career in safety, fire protection design, project management, OSHA PSM training, and research management in chemicals, refining, offshore, government, transportation, explosives, engineering and construction, and petrochemicals.

## **EDUCATION/CERTIFICATIONS**

BS General Engineering (Mechanical), Texas A&M University - Kingsville, Texas  
MS Studies in Electrical Engineering, Texas A&M University – Kingsville, Texas

## **PROFESSIONAL EXPERIENCE**

### **2000-2005: Associate Consultant (contract)**

Baker Engineering and Risk Consultants, Inc. (BakerRisk) Process Safety Section  
Responsibilities: Trade shows, technical brochures and marketing support, business licensing, web site marketing, explosion accident investigations, engineering licensing

### **1996-2000: Principal Engineer (Project)**

BakerRisk - technical specialty in Process Safety Section  
Responsibilities: Author of company process safety program. Management services for API/EPA regulatory compliance in siting reviews, accident investigations, process safety marketing, and business development

### **1989-1996: Process Engineering Manager (Management & Technical)**

Fluor Daniel Engineering and Construction, Inc.  
Responsibilities: Author of process safety program and department head. Client projects -process safety and regulatory compliance. Managed training group and technical staff - reliability, fire protection, design safety, compliance, audits, and marketing staff services worldwide. Studies – LNG fire studies HF alkylation mitigation, HAZOP's, FMEA's, risk assessments and risk audits in Mexico & Corporate Chair of Hazards Analysis Committee

### **1985-1989: Fire Protection Consultant**

Loss Control Associates, Inc.  
Responsibilities: Process plant fire protection designs, prepare standards, risk evaluations

### **1981-1985: Staff Safety Engineer (Domestic and International Operations)**

Aramco Services Company, Inc.  
Responsibilities: Pipeline risk assessment, tire failures, human factors in control room, fire protection audits, training, accident investigations, and refinery vacation relief

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**1979-1981: Corporate Safety Director**

Atlas Powder, Inc. (Division of Tyler Pipe)

Responsibilities: Formulate, document, and corporate direct safety program for blasting supplies and commercial explosives manufacturer, high explosives process safety design, and DOT filings, exemptions, and other regulatory compliance

**1970-1979: Corporate Safety Engineer**

Air Products and Chemicals

Responsibilities: Author process safety program, fire protection project services, accident investigations, staff and project management training in OSHA 1910.119, lead research efforts in LNG container fire protection and field testing potentially explosive chemicals

**1968-1970: Safety & Fire Protection Engineer**

National Aeronautics and Space Administration

Responsibilities: Astronaut training support, fire protection for critical facilities, technical reviews of pyrotechnics test procedures and facilities

**1966-1968: Safety Engineer**

The Dow Chemical Company

Responsibilities: Safety training, safety and industrial hygiene surveys, accident investigations, laboratory safety, and reactive chemicals testing program

**SELECTED PRESENTATIONS & PUBLICATIONS:**

*"Course Manual – Hazard and Operability Studies"*, Air Products and Chemicals, Allentown

*"Safety Analysis of (Nuclear) Waste Gas Processing System"* Air Products and Chemicals, Allentown

*"Failure of Passenger Car Tires in Saudi Arabia"*, ASSE Section Meeting, Dhahran, Saudi Arabia

*"Human Factors Considerations in GOSP Control Rooms"*, ARAMCO Dhahran, Saudi Arabia

*"Lecture Course – LNG Safety –A Systems Approach" – Lehigh University, Allentown*

*"Reducing the Potential for Catastrophic Polymer Plant Accidents"*, Dewitt & Company Petrochemical Review, Houston

*"Opportunities in Compliance Chaos – But Not Without Risk"*, Fluor Daniel Corporation Board of Directors, Irvine

*"Regulatory Engineering in Tomorrow's Designs"*, Area E&C Managers Conference, Houston

*"A Major Contractors Approach to OSHA 1910.119 Compliance"*, 42<sup>nd</sup> National Construction Conference, The Business Roundtable, Panama City Beach Florida

*"Process Hazards Analysis – Training Course Manual"*, Fluor Daniel Petroleum and Petrochemical Operating Company, Houston

*“Process Reliability Management”*, Area ASME Conference - Houston Ship Channel Industries

*“Reliability Engineering ... A New Paradigm for E&C Projects”*, University of Arizona Annual Reliability Conference,

*“An Approach to VA/VE in an Explosives Engineering and Consulting Company”*, University of Texas Accounting Society and Society of Value Engineers, Austin

*“Current Trends & Observations Regarding Security & Vulnerability in the U.S. Energy Sector”*, North Texas Chapter Gas Processors Association, Regional Meeting, Dallas