



FIRE/RECONSTRUCTION CONSULTANTS, INC.

P.O. Drawer 307

Cape Canaveral, FL 32920

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Jeff Dudley P.E., C.F.E.I

Fire/Reconstruction Consultants, Inc.

P.O. Drawer 307

Cape Canaveral, FL 32920

02/2017 – PRESENT

Consultant /Certified & Explosion Fire Investigator

Determines the origin and cause of fires and explosions. Investigates the case circumstances, research, testing and preparation of completed report findings with onsite photography of vessel, vehicle, and structure cases.

Board Member of National Association of Fire Investigators.

Board Member of International Association of Fire Investigators.

NASA

John F. Kennedy Space Center

Mail Code: SI-P

Kennedy Space Center, FL 32899

11/2009 – PRESENT

Fire Protection Engineer

Currently appointed as the Technical Authority (Authority Having Jurisdiction) at the John F. Kennedy Space Center. Function as the Center's subject matter expert and authoritative adviser to senior officials for fire protection, life safety, and fire code standards. Perform process verification, system validation, functional management assessments, and advise engineering review boards. Ensure disciplined engineering practices are applied to complex problems by integrating operational concept definitions and evaluating plans, standards for flight and ground systems throughout KSC. Certify NASA and Commercial Partners' facilities, products, and processes to ensure compliance with requirements. Resolve difficult and complex technical, project management, and organizational risks that may involve extraordinary urgency, workforce safety, public safety, and governmental or commercial partner mission success. Manage the Center's fire protection program, fire engineering, fire and emergency services, and fire prevention. Identify, analyze, and control hazardous conditions, exposures, and practices. Develop and collaborate Agency fire protection policy with all NASA Center's. Assist in the development and implementation of Commercial Space Launch Act, Space Act

Agreements, Enhanced Use Lease Agreements, and other reimbursable and non-reimbursable agreements.

US Coast Guard

2703 Martin Luther King
Marine Safety Center, Mail Stop 7430
Washington DC 20593-7430

02/2005 – 01/2006

Fire Protection Engineer

Engineering subject matter expert responsible for ensuring requirement compliance for large passenger vessel designs for adaptations to changing requirements including compliance with the Code of Federal Regulations (CFR), Navigation and Vessel Inspection Circulars (NVIC), and the International Convention of Safety of Life at Sea (SOLAS). Analyzed designs of ships systems using a systems engineering approach and incorporating the use of performance based design in lieu of prescriptive based requirements. Mitigated vehicle damage through technical integration and leadership in the certification of operational processes, products and related ground support facilities. Developed minimum acceptable criteria using safety and mission assurance principals and policies for use of performance-based modeling and calculations for fire growth and egress. Performed structural evaluations critical to the vehicle's performance. Represented the Marine Safety Center during concept meetings of novel designs from design conception through operational use.

Education:

University of Maryland – College Park College Park, MD

Master's Degree 05/2011

GPA: 4.0 of maximum 4.0

Major: Fire Protection Engineering

University of Maryland – College Park College Park, MD

Bachelor's Degree 05/1997

GPA: 2.915 of maximum 4.0

Major: Fire Protection Engineering

Additional Information:

Top Secret/Sensitive Compartmented Information Clearance, terminates March 2020

Licensed Professional Engineer, Virginia

Certified Fire and Explosion Investigator

Serve on international engineering technical standards making committees for the National Fire Protection Association