



RESUME OF DOUGLAS J. BAROVSKY, P.E.

SUMMARY

Professionally licensed Electrical Engineer in the state of Washington with twenty years of industry experience; fourteen years in the aerospace sector that included seven years as a Federal Aviation Administration (FAA) Designated Engineering Representative (DER). Mr. Barovsky is a Certified Fire and Explosion Investigator. Mr. Barovsky provides services in the area of fire origin and cause investigations including fire scene inspection, excavation, evidence identification, recovery and preservation, and analysis of fire debris. Mr. Barovsky's experience includes fire and explosion investigations in residential, commercial and industrial buildings, vehicles, motor homes and marine vessels; electrical/electronic design; failure analysis; and government regulatory compliance.

PROFESSIONAL EXPERIENCE

MDE Inc. – Seattle, WA (2002 to Present)

Vice President and Principal – Fire origin and cause investigations in residential, commercial and industrial buildings. Examination, documentation, test and analysis of fire debris. Examination, documentation, test and analysis of product failures involving electrical, electronic and gas appliances and equipment. Investigation and analysis of aircraft accidents and component and system failures.

The Boeing Company – Commercial Airplane Group – Everett/Seattle, WA (1989 – 2003)

FAA DER and Senior Lead Engineer – Delegated authority by the FAA to review and approve new and modified airplane type design data. Develop and manage certification programs to identify requirements and objectives for successfully demonstrating compliance to the applicable domestic and foreign airworthiness standards. Conduct failure analyses ranging from Fault Hazard Assessments and Failure Modes and Effects Analyses to Fault Tree Analyses and numerical probability studies. Test and evaluate failed hardware and systems in order to provide input to internal and external customers, vendors and regulatory authorities (domestic and foreign) in order to resolve manufacturing, maintenance and continued airworthiness issues associated with aircraft electrical and electronic components and systems.

The Boeing Company – Space and Defense Group – Kent, WA (1988 – 1989)

Project Design Engineer – Digital and analog circuit design including testing, manufacture, delivery and support of ground based test equipment for space hardware; established component and system design requirements; procured electrical and electronic parts; conducted troubleshooting; revised and modified new and existing systems as required.

The Boeing Company – Space and Defense Group – Kent, WA (1987 – 1988)

Project Engineer – Performed Failure Modes and Effects Analyses for mission critical systems and hardware intended for power generation and distribution, and communications and telemetry for space based hardware utilizing the space shuttle (post-Challenger) for delivery into geosynchronous orbit.

PROFESSIONAL REGISTRATION & CERTIFICATION

Professional Engineer – Electrical Engineer, State of Washington # 38422
NAFI Certified Fire and Explosion Investigator (CFEI)

EDUCATION & TRAINING

Bachelor of Science Electrical Engineering (BSEE) – Seattle University (1987)
Technician Class Amateur Radio License
IC Design and Fabrication
2002 National Electric Code
Investigation of Gas and Electric Appliance Fires
Cold Regions Engineering Short Course
National Fire, Arson and Explosion Investigation Training Program
Confined Space Entry
Design of Electric Power Systems I & II
Aerial High-Lift Safety and Operation
Beckett Residential Burner Program
Power Distribution System Grounding and Transients
DER Recurrent Training Seminar
Electricity & Fire investigation course
Standard for Electrical Safety in the Workplace
2005 National Electric Code
Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas
Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas
Investigations of Electrical & Appliance Related Fires

PROFESSIONAL ASSOCIATIONS

International Association of Arson Investigators (IAAI)
National Association of Fire Investigators (NAFI)
National Fire Protection Association (NFPA) International
ASM International/Electronic Device Failure Analysis Society (ASM/EDFAS)
Society of Automotive Engineers (SAE) International
The Institute of Electrical and Electronics Engineers (IEEE)/Power Engineering Society (PES)

PUBLICATIONS

“Failure Analysis: Preservation of Evidence,” presented to The 30th Annual Pacific Northwest Aviation Law and Insurance Seminar (October 2003)

