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**Michael S. McGuire, P.E. | Sr. Electrical Engineer**

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**Professional Summary:**

Mr. McGuire has more than 35 years of experience in electrical engineering and project management, with ten years specializing in various aspects of electrical power systems and electrical machinery including load flow, fault analysis, protection and control circuits and electrical testing. He has performed numerous evaluations relating to electrical failures, including systems and designs, equipment, apparatus and wiring.

Mr. McGuire also has experience managing a team of professionals including electrical engineers, engineering analysts, designers, drafters and CAD operators. His projects range from SCADA, substation I & C design and distribution system analysis, to protection studies, equipment application and industrial power factor correction. Since joining EFI Global in 1995, Mr. McGuire has investigated electrical losses, including structure fires, vehicle fires, marine fires, commercial and industrial equipment failures, electrocutions and other personal injuries.

**Licenses and Certifications:**

Professional Engineer, MI, #34831

Professional Engineer, CA, #E12803

**Project Experience:****AIG Technical Services – Alpena, MI**

Investigated failure of high voltage circuit breaker at a large paper mill with an electrical generation facility. Determined cause of failure was the mis-adjustment of high voltage circuit breaker contacts.

**Municipal Power Plant – Orville, OH**

Investigated catastrophic failure of high voltage metal-clad switchgear assembly at a municipal power plant. Loss involved massive damage to electrical equipment and subsequent fire damage to building. Determined cause to be improper wiring of generator field circuit breaker trip circuit.

**Residential Fire Loss – Memphis, TN**

Investigated residential structure fire resulting in complete destruction of the residence. Determined cause to be ground fault current from a utility primary distribution line.

**Court Qualifications/ Depositions:**

Litigation CV available upon request.

### Professional Experience:

EFI Global, Inc. – Owosso, MI, Electrical Engineer and Engineering Supervisor, 1995 – Present  
Novak Engineering, Inc., Manager of Instrument & Control Design and Systems Engineering 1991 – 1995  
Consumers Power Company, Equipment Engineer, 1988 – 1991  
Los Angeles Department of Water & Power, Hydro-electric Facilities Engineer, 1985 - 1988r

### Education:

Bachelor of Science, Electrical Engineering with Honors, Michigan Technological University, 1985

### Affiliations:

International Association of Arson Investigators (IAAI)

### Courses Instructed/ Guest Lecturer:

Basic Electrical Theory  
Electrical Failures/Fire Causation

### Honors and Awards

Michigan IAAI Investigator of the Year, 2018