

# **ALLISON ENGINEERING ASSOCIATES, INC.**

CONSULTING TESTING AND SCIENTIFIC SERVICES

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## **ANDREW J. DIAMOND**

### **Specialized Professional Competence**

Mr. Diamond specializes in electrical/electronic engineering issues. He has conducted failure analysis of medium/low voltage electric power distribution systems and equipment and analysis of power system protection and coordination design. He has investigated incidents involving electrocutions and electric shocks and has conducted many fire investigations and component failures related to electrical equipment, motors, consumer products, appliances, electronics, and vehicles using the discipline of electrical engineering. He is experienced with on-site inspection and evidence documentation. Mr. Diamond also has extensive experience with incidents (injury, fires, explosions, etc.) involving industrial electrical equipment and machinery as it relates to power electronics, control systems, solid state devices, programmable logic controller's (PLC's) and safeguarding. He is experienced with test fixture design and fabrication related to electrical and mechanical application utilizing electronic instrumentation and data acquisition. He is also experienced in applying relevant codes and standards including the NEC, NESC, OSHA, NFPA, UL, ANSI, etc.

### **Background and Professional Honors**

B.S.E.E., Wentworth Institute of Technology  
A.S.E.E., Wentworth Institute of Technology

Senior Engineer,  
Allison Engineering Associates, Inc.  
Senior Engineer,  
Exponent  
Electrical Draftsman,  
R.G. Vanderweil Engineers  
Technical Assistant,  
Liberty Mutual Research Center

### **Professional Organizations**

Member, Institute of Electrical and Electronics Engineers (IEEE)  
Member, National Fire Protection Association (NFPA)  
Member, International Association of Arson Investigators (IAAI)

The Commonwealth of Massachusetts, EIT Certificate No. 17269

## **ANDREW J. DIAMOND**

### **Publications**

"Don't Judge a Crimp by its Cover: An Engineering Team Examines Potentially Dangerous Electrical Failures of Insulated Flag-Type Connectors in Portable Electrical Appliances," *Connector Specifier*, Vol. 20, Issue 10, pp. 12-14, October 2004 (with S. Davis, W. Gans, P. Hinze, and H. Kytomaa).

### **Presentations**

"Distributed vs. Central Uninterruptible Power Systems (UPS)," Disaster Avoidance and Recovery '93, 2<sup>nd</sup> Annual Conference and Exhibit, Washington, DC, May 1993 (with A. Kusko).

### **Electrical Related Training**

IAAI Training Program on "Arc Mapping Basics"

NFPA Seminar on "NFPA 79-2002, Electrical Standard for Industrial Machinery"

Rockwell Automation Course on "PLC Training"

GE Supply Technical Seminar on "Basic Controls Programming"

IEEE Tutorial Course on "Application of Power Circuit Breakers"

Bussmann Electrical Training Course on "Protection and Coordination of Electrical Systems"

### **Deposition and Trial Summary**

Crown Vantage v. ABB, Louisiana, Deposition Testimony taken 2002.

Taylor v. Marr, Florida, Deposition Testimony taken 2002.

Brookfield Office Park Fire, Connecticut, Deposition Testimony taken 2003.

Travelers Indem. Co. of I11. ex rel. Patco Corp. v. Wolverine (MA) Corp., U.S.D.C. D. Mass. C.A. No. 03-10164-RWZ, Deposition Testimony taken September 1, 2005.

Quincy Mutual Fire Insurance v. Coors Brewing Company, Commonwealth of Mass. Superior Court C.A. No. CV-03-01706, Deposition Testimony taken April 2, 2007.

Allstate Insurance Company v. Samsung Electronics, U.S.D.C. Rhode Island C.A. No. 06-536, Deposition Testimony taken February 29, 2008.

Metropolitan Property and Casualty Insurance Co. v. Don's Floor Service, Commonwealth of Mass. Superior Court C.A. No. 07-02099-G, Deposition Testimony taken April 29, 2009.

Franco American School, Inc. v. Chamberlin Electric, Inc. & Norman E. Day, Inc., Commonwealth of Mass. Superior Court C.A. No. 07-3169-L, Deposition Testimony taken April 21, 2010.

Hartford Fire Insurance Co. v. Goodman Manufacturing Co., U.S.D.C. New York C.A. No. 09 CV 10521 (JSR), Deposition Testimony taken May 21, 2010.

## **ANDREW J. DIAMOND**

Diaz v. Bombardier, Worcester Superior Court C. A. No. 09-2707E, Court Testimony October 2013.

Benjamin Poirier v. Cherry Hill Manufacturing Corp., Rhode Island Superior Court C.A. No. PC2010-4933, Court Testimony December 2014.

Greystone, Inc. v. National Grid, Rhode Island Superior Court C.A. No. PC 10-2443, Deposition taken January 6, 2015.

Dyer v. National Grid, Rhode Island Newport Superior Court, C.A. No. NC-2013-0451, Deposition taken March 1, 2018.

Sarah Windham v. National Grid, Rhode Island Newport Superior Court C.A. No. NC-2015-0034, Deposition taken August 24, 2018.