



Applied Materials Technologies Inc.

A professional design and engineering firm

ANDREW REEBER, P.E.
ASSOCIATE SENIOR CONSULTANT
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EDUCATION

B.S. Electric Power Engineering, Rensselaer Polytechnic Institute, 1980

LICENSED PROFESSION ENGINEER (P.E)

IL (062-045350)

AREAS OF SPECIALIZATION

Electrical Failure Analysis
Power system design
Process Controls
Boiler Controls
Utility Rate analysis

PROFESSIONAL EXPERIENCE

Mr. Reeber is an Associate Senior Consultant with Applied Materials Technologies (AMTI). Mr. Reeber is an electrical/instrumentation engineer with detailed knowledge in electrical and process instrumentation design and installation.

Along with his association with AMTI, Mr. Reeber is the Senior Electrical Engineer of the corporate engineering staff at Koppers, a manufacture of treated wood products and operator of coal tar distillation facilities. At Koppers he is responsible for the overseeing the design of the the electrical, as well as, the control systems at 14 facilities in North America. Projects have included upgrading of relay based control systems for waste wood fired boilers, process controls for borate treatment of railroad ties, dust collection systems for wood trimming and cutting operations and inspection of plants for compliance with NFPA 70. Projects at these plants include designing electrical systems to the requirements of NFPA 70, NFPA 497, NFPA 499, NFPA 30. Also while employed at Koppers he led the development of corporate policy to comply with NFPA 70E and IEEE 1584.

Prior to his position on the Koppers Corporate engineering staff, he was employed by Engineering Systems Inc, as a Senior Staff Engineer responsible for the investigation of electrical and control failures. Mr. Reeber also specializes in the investigation of electrical network failures including fires. During this time he worked on many projects involving distributed control systems and process management control systems, many of which were boiler or furnace related. As a result, he became well versed in NFPA 85 and NFPA 30 and various other fire protection peer reviewed construction codes and standards

Andrew Reeber, PE CV - January 2016

Previous to that Mr. Reeber spent twenty years as a plant engineer in the design of electrical installations at a Koppers coal tar distillation facility near Chicago, IL. Electrical installations were required to meet the requirements of NFPA 70, National Electrical Code. Many were installed in electrical hazardous locations as determined by NFPA 30 and NFPA 497. During this time he was also responsible for upgrading the boiler management systems and boiler control systems, from pneumatic controls to DCS and PLC based controls, while maintaining boiler management systems meeting the requirements of NFPA 85.

Mr Reeber was responsible for the design or specification the controls for fired process heaters, fired storage tank heating system, thermal oxidizers and regenerative thermal oxidizers as covered under NFPA 86. This also involved integrating these controls with a remote DCS or a PLC. In addition to the boiler control systems, he was also responsible for upgrading multiple process control systems from pneumatic PID controllers and relay based logic, to DCS and PLC based control systems.

Mr. Reeber started his career after graduation from College working for various consulting firms doing work in the nuclear power industry.

Professional Affiliations

Institute of Electrical and Electronic Engineers (IEEE) Member

Instrument, Systems and Automation Society (ISA) Member

The Electrical Association -Consulting Engineers Division Member

Positions Held

AMTI Naperville, IL

Senior Consultant 2009

Koppers, Inc Pittsburgh, PA,

Senior Electrical Engineering, November 2008 to present

RIR Engineering – Northbrook, IL

Electrical/Instrumentation Engineer, August 2008 to present

Engineering Systems Inc – Aurora, IL

Senior Staff Engineer, November 2004 to August 2008

Koppers, Inc - Cicero, IL

Electrical Engineer, July 1984 to November 2004

Carolina Power & Light - Southport, NC

Contract Electrical Plant Engineer March 1983-March 1984

Sargent & Lundy - Chicago, IL

Contract Electrical Engineer November 1982 to February 1983

Bechtel Power Corp. - Gaithersburg, MD

Electrical Engineer-July 1980 to September 1982



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Seminars

January 2010 Regional Easy Power Hands on Training, (5 days)

February 2007 Protection and Co-ordination of Electrical Systems, IEEE-IAS Chicago Section (1 day)

February 2006 ARC Flash Safety, NFPA 70E, IEEE-IAS Chicago Section (1 day)

March 2005, Fire and Arson Investigation I & II, Illinois Fire Service Institute (10 days)

February 2005, Changes to the 2005 NEC, IEEE-IAS Chicago Section (1 day)

February 2004, Fire Alarm Systems, NTT (3 days)

February 2004, Motor and Protection, IEEE-IAS Chicago Section (1 day)

August 2003, OSHA 10 Hour certification (2 days)

February 2002, Industrial and Commercial Lighting Design, IEEE-IAS Chicago Section (1 day)

June 2001, Workshop to Develop New National P.E. Exam, IEEE-PES Chicago Section (2 days)

February 2001, Power system Harmonics Analysis, IEEE-IAS Chicago Section (1 day)

April 2000, Short Circuit Analysis, IEEE-IAS Chicago (1 day)

November 1999, Electrical Code Requirements Motors, Transformers and Hazardous Locations, International Association of Electrical Inspectors (2 days)

