

JOSEPH A. GRECO, P.E.  
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### **EDUCATION**

Widener University - Bachelors in Engineering, Electrical, 08/96

Continuing Education to Support Professional Licenses:

*Forensic Analysis of Failed Components* - FPI, Inc., 1996  
*Protective Relaying, Principles and Applications* – 2004  
National Electrical Code – *Changes to the Code* (ongoing classes)

### **RECENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS & DESIGNATIONS**

Institute of Electrical and Electronics Engineers (IEEE) – Member of Standards Association

International Association of Electrical Inspectors

### **PROFESSIONAL CERTIFICATIONS**

Licensed Professional Engineer, States of New Jersey, Delaware, Pennsylvania and Wisconsin

Licensed Home Electrical Inspector, State of New Jersey

### **OCCUPATIONAL EXPERIENCE**

With over 30 years experience, Mr. Greco has been a Lead Project Electrical Engineer on many fossil fuel generating station projects and was ultimately responsible for specifying electrical equipment, performing calculations (system study, voltage drop, short-circuit analysis, load analysis) and leading the construction effort of said generating stations. He has also performed start-up and performance testing tasks along with required failure analysis. He has also been an Instrumentation and Controls Engineer, with expertise in controls systems for nuclear generating station, other commercial and residential applications. He is experienced with microprocessor and standard hard-wired controls systems (hoists, elevators, electric gates, to name a few).

While employed by PSE&G at the Salem Nuclear Generating Station, Mr. Greco prepared incident reports to the Nuclear Regulatory Commission (NRC) and the applicable analysis of failed components and/or systems. As a Procurement Engineer, dealing with providing equivalent replacement of obsolete components, he routinely had to perform detailed failure analysis to justify the choice of the equivalent item. Failed components analyzed included various transformers, ranging from small distribution to large generator step-up, various solenoids, motor operated valves, electromechanical relays, circuit breakers (both manual and electrically operated units), high voltage disconnect switches and a wide range of cables. As is customary in matters concerning nuclear generating stations, the reports submitted by Mr. Greco were required to be detailed and comprehensive as to stand up to the heightened scrutiny that accompanies these proceedings.

Mr. Greco has been consulted on product liability claims and the forensic investigations of component failure on various fossil fuel and nuclear generation stations. Examples include determination of adequacy of neutral grounding calculations, affects of excessive capacitance on main bus during start up of combustion turbine generators, failure of improperly treated electrical terminations of dissimilar metals among others.

Mr. Greco has been employed as an expert consultant on various residential electrical power distribution legal proceedings. Some examples of his participation in these matters include evaluation of nonconformance with NFPA 70 (the National Electric Code) such as installation of inadequately sized devices and conductors, undersized utility service feeder conductors and their effect on failure of these conductors.

He has been an active participant in the investigation and resolution of contract disputes involving subcontractors and/or equipment vendors and numerous clients.

Mr. Greco is a licensed electrical inspector in the state of New Jersey (license currently in the voluntary inactive status).