



Bio – Shahid Jamil

Shahid Jamil (S'74, M'75, SM'96, Emeritus'12, Life Member'15) received B.Sc. and B.Sc. (Elect. Eng.) degrees from Aligarh Muslim University, India, and M.Sc. (Elect. Eng.) degree from Queen's University, Kingston, Canada. He is a registered Professional Engineer in the Province of Alberta, Canada. In 1975, he joined the Iron Ore Company of Canada. In 1979, Shahid was hired by Imperial Oil's Esso Chemical Canada (Exxon) and worked with ExxonMobil for 32 years. In 1991, he relocated to Exxon Chemical's Baytown Plant in Texas. He was responsible for: 1) development, design, and startup support for electrical projects; 2) technical support for the operation, maintenance and troubleshooting of the plant's electrical power system; 3) interpretation and implementation of applicable safety regulations and standards; and 4) upgrade of plant electrical safety standards, procedures, and compliance. In 1998 and 1999, Shahid moved first to Thailand and then to Singapore to support start-ups for an aromatics expansion project and a new chemical complex project. In January 2012 Shahid joined BP Upstream Engineering Center in Houston, Texas. Currently Shahid is an independent electrical engineering and electrical safety consultant. Shahid was IEEE/PCIC Safety Sub-Committee's Chair (2017-19), Vice Chair (2015-17) and Secretary (2013-15). He was the 2009 IEEE/PCIC Excellence in Electrical Safety award recipient for "Outstanding dedication and contributions made to advance and accelerate the dispersion of information and knowledge impacting electrical safety through activities within and outside the Petroleum and Chemical Industry Committee." Shahid has been involved in conferences, workshops and safety training programs in North America, South America, Europe, and Asia. He has presented tutorials and authored and co-authored 22 IEEE electrical safety and technical papers, receiving three "First Paper," one "Third Best Paper", one "Honorable Mention," and one "Third Best Presentation" awards. In 1997, 1998, and 2000, he chaired and/or coordinated three PCIC/IEEE Electrical Safety Workshops in India and the USA. Shahid has carried out electrical safety training for over 2500 workers. The US Immigration and Naturalization Services granted permanent residence for his exceptional contributions in electrical safety.

As per your e-mail.

1. Auditing of Electrical Safety Program

Discuss the use of auditing as an important element of any electrical safety program. Auditing provides the means to understand performance versus established standards and to identify areas for continued improvement. To have an effective electrical safety program, an auditing process must be an integral element of the electrical safety program. The discussion will also include the incorporation of auditing as a key element in an electrical safety management program.

2. Why and When Second Qualified Person should be used for Electrical Works

Discuss what North American regulations and consensus standards require CPR and AED usage but do not provide a clear guidance for the use of second qualified person who can provide CPR if there is an electrical shock or arc flash incident. The discussion includes the standby person's qualifications and responsibilities and what electrical tasks may require a standby person. General guidelines on the rescue of victims injured in electrical incidents will also be discussed.

3. Key Elements of Electrical Switching Procedures to Enhance Safety

Discuss how the electrical equipment isolation or switching can be relatively straightforward or extremely complicated depending upon the complexity of the electrical distribution system. Regardless of its size or number of switching steps involved, switching should be done following a written switching order or procedure. Planning switching operations provides the opportunity to consciously address all aspects of the work in a way that incorporates the appropriate personnel and their experience as well as consideration of the risks associated with the switching operation and their mitigation. This includes the discusses of the successful approach of developing and executing the electrical equipment switching procedures at major petrochemical organizations.

4. Do's & Don'ts of Personal Protective Grounding to Enhance Worker and Equipment Safety

Discuss how the temporary protective grounding serves a critical safety function when working on electrical power systems. Although many field service personnel are well familiar with the requirements of using temporary protective grounds, many others have only a partial understanding of important aspects of it. This includes reviews of important aspects of the application of temporary protective grounds, including sizing, order of placement and removal, results of misapplication, and common rules for working with temporary protective grounds.