

NEW JERSEY--SKYLAND DIVISION 1-40-1

Hunterdon, Morris, Somerset, Sussex, and Warren Counties

International Association of Electrical Inspectors



11 July 2013

Officers:

President

Robert Rutan

1st V/President

Robert Moentenich

Secretary

Greg Chontow
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Treasurer

Donald Storms

Board of Directors:

James Alsop
Frank Baguiao
Stan Fagerty
Chris Frankowski
Roy Konwiser
David Menendez
William O'Connor
Chris Walthour

President Bob Rutan opened the meeting at 6:10pm with the flag salute and a moment of silence for our men and women overseas. President Rutan then asked for a treasurer's report. Treasurer Don Storms reported a comfortable balance for the month. A motion was made and seconded to approve the treasurer's report. The President then continued the meeting by asking for an approval of the minutes which was posted on our website. A motion was made and seconded to accept the minutes as published. Bob Rutan continued with a reminder of the Eastern Section meeting to be held in Niagara Falls New York the end of September and all that may be interested should consider going to the IAEI website for the agenda. There will be a continuing education class to be held in October on Emergency, Legally Required and Optional Standby Systems including calculations. Opinions were solicited as to whether, as a six hour class, it would be preferable to hold the class on a weekend or weekday. The general consensus was to hold it on a weekday. As we would have access to bulk preorder "Illustrated Changes to the 2014 Code" books, President Rutan asked for a show of hands of who would be interested in a purchase. A nearly unanimous flood of hands was raised. Opening up the floor for comments, member Jim Burke commented that an inspector failed him for the installation of NM wiring to a fireplace insert. The inspector said the wiring shall be protected from physical damage. A discussion ensued with a general consensus that as long as the wiring was not encased in the masonry, it was not subjected to physical damage and no additional protection should be required. The President then introduced Thad Papciak from Burlington Safety Laboratory. Thad explained the company's role in high voltage gear and arc flash protection and the testing of protective gear. Jack Lyons of NEMA was then introduced. Jack was recently hired by NEMA to take the place of Gil Moniz. His job was to be a liaison between the installer and manufacturers. Since the damage after Hurricane Sandy, there has been a great deal of storm cleanup. He spoke of his contacts with fire officials down the east coast dealing with fires caused by flood damaged equipment that was reenergized without making the necessary replacement of equipment. He has also been in contact with emergency management personnel explaining to them the importance of replacing electrical equipment after floods. A question was asked as to how to handle the insurance company's unwillingness to

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replace all flooded equipment. Jack guided us in the documents provided by NEMA on their website. Secretary Greg Chontow stated that there was a link to the document on the Skyland website. Jack also recommended using fire reports to work with homeowners and insurance companies to get equipment to be changed. President Rutan then introduced the guest speaker for the evening, Steve Norako of Emerson, Appleton O-Z/Gedney. Steve guided us on a tour through hazardous locations with books he handed out detailing Chapters 500 through 516. He pointed out that installed equipment must meet standards approved for the US, as the requirements are different than other countries. Classified locations are broken out into Classes, Divisions and Groups. Zones are a relatively recent addition which are based on the IEC hazardous location classification system. There are three zones and its total are equivalent to the two divisions. In addition, it is important to be mindful of the equipment's Temperature Code which must be lower than the auto-ignition temperature of the explosive environment. He explained that a Division 1 location is normally hazardous in that the combustible material is continuously present whereas in a Division 2 location, the combustible material is not normally in the environment and two failures must occur for an explosion to happen. Groups are divided into seven sections, the first four, A,B,C, & D are the gas group and are used to further define Class 1 locations. Groups E,F, & G are the dust group and pertain to Class 2 locations. Steve explained the three major types of joints in equipment construction, that being ground joint, threaded joint and Labyrinth path construction. If an explosion occurs in the equipment, the gasses will cool through these joints before escaping out to the environment. He gave a detailed explanation on seal fittings which are required within 10' of a boundary. No fittings may be installed between the boundary and the seal except for a rated reducer, which will allow for an increased seal size which would be necessary to get the 40% fill of a conduit fitting. With Steve's conclusion he received a well deserved round of applause. President Rutan reminded everyone that the meetings are now credited towards the required continuing education for the Board of Electrical Contractors as well as Department of Community Affairs. This too received a triumphant round of applause. With that, a motion was made to close the meeting with 37 in attendance.

Respectfully Submitted

Greg Chontow