

NEW JERSEY--SKYLAND DIVISION 1-40-1
Hunterdon, Morris, Somerset, Sussex, and Warren Counties
International Association of Electrical Inspectors



8 March 2012

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Robert Rutan

1st V/President
Robert Moentenich

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The Officers:
James Alsop
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President Bob Rutan opened the meeting at 6:14pm with the flag salute and a moment of silence for our men and women over seas. He then went on to say that with such a large crowd we can have no side meetings. Everyone would have to keep conversations to a minimum and give attention to the speakers. Treasurer Andy Cartal reported that we have a healthy balance in the checking account due to the continuing education classes and this will allow us a nice cushion to do other programs. The Audit Committee, consisting of Don Storms and Ernie Fletcher, and assisted by Don's bookkeeper Kimberly McIntree, had completed their report and everything balances out. Next, Secretary Greg Chontow commented that the minutes were posted on our website, and asked if there were any changes. A motion was made to accept the minutes as posted which was seconded and accepted. Bob then introduced Kevin Venevia of Damin Sales who then introduced Kevin Sandler from Damin Sales and Ray Kennedy from Arlington Industries. Ray then took the floor to demonstrate the many new and exciting products that Arlington has to offer. As Ray explained in detail each new product, samples were passed out to all those in attendance. Some of the new products highlighted were the "snap-to-it" MC connectors and the "Wire Grabber" to be used instead of jack chain. They explained that they now have a fan box that can be used with TGI stud and all their fan boxes had parked screws so they would not be lost on the jobsite. They mentioned that the success of their company was due to the fact that the two guys that run the company also invented the products, and held over 300 patents. Ray mentioned that he couldn't leave without one new product idea to take back with him. Some members came up with some interesting ideas that were discussed. With large goodie bags, the members gave them a large round of applause. Bob Rutan then introduced Suzanne Childers from the Department Of Community Affairs. Suzanne said she was glad to be back after a long hiatus due to a knee replacement. She mentioned that she is working in the southern office due to the fact that she is not able to make the long trip to Trenton. She said that because of this, she may be forced to step down in her position in Code Assistance. Down to business, she said that the comment period for the 2011 NEC closed on 3 March 2012 and if you have a complaint about the content of the code, you're too late. The comments will be compiled and sent to the Governor's office hopefully

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by the end of the month. At it's earliest the Governor may enact the 2011 NEC by May or he may choose not to accept the code at all. Information will be posted on the Department's web site [and the Skyland Division's site]. When a new code is enacted, there is a grace period of six months. During the six month period, the permit applicant can choose the use the previously adopted code provided they specify the requested code at the time of application, otherwise it is automatically the currently adopted code. Suzanne noted that unlike an adopted code, the Rehabilitation Subcode is effective immediately and previous codes are not a choice. Secretary Greg Chontow mentioned that there was now an abridged version of the Rehab code posted on the Skyland website that was exclusively electrical which made it more easily understandable and easy to use. Suzanne went on to explain that Arc Fault breakers were required in New Building Elements with an exception of panels that do not accept those breakers such as Federal Pacific, Pushmatic, Zinsco, and others. A question arose about the working clearance requirements of 110.26 with replacement and upgraded panels. It was made clear that whether it is from 100 to 100 amp or 100 to 200 amp, the working clearance requirements are out. The next topic that was brought up was the infamous CSST bonding. Suzanne mentioned that this was for lightning protection and therefore since the NEC does not address lightning protection, any ideas of bonding from rules laid out in the NEC are out. These rules are implemented in the IRC and IFGC and though they may be contradictory of the NEC, should be followed as described in those codes. Handouts were passed around to help all to better understand the implementation of these rules. She went on to explain that it is the job of the electrical contractor to install this gas bond and the electrical inspector's job to review the plans and inspect the installation of the bond. As for the installation, a number 6AWG copper conductor shall be run from the load side of the gas meter's metallic pipe to either the ground rod, concrete encased electrode, ground electrode conductor, or the panel (which is not recommended). A question was brought up as to whether a separate grounding electrode could be installed and not interact with the electrical grounding system. The answer brought us to 250.50 which says all electrodes present at each building shall be bonded together to form a system. Therefore, it would still have to interact with the electrical grounding system. After that very hot topic, we moved onto optional standby systems. As the impact from the fall storm remains, generators are common issue for discussion. Suzanne reminded us all that both 230.2(E) and 702.8 both require a permanent plaque located at each service disconnect location denoting the location of the other service. Next was the topic of transfer switches. Many people relied on the use of aftermarket manual interlocks as transfer switches. You must insure that the product is listed and labeled for its use. One product that is popular for its variety of installations is manufactured by InterLock Kit. It was noted that this manufacture lost their listing and must go back to have the

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listing recertified. Until that time, this product can not be used. However, this does not include manual transfer kits manufactured by panelboard companies such as Square D and Cutler Hammer, which are designed for their own equipment. NEC article 702.5 requires a load study calculation for all optional standby systems. This includes both manual and auto transfer switches. 702.5(B)(1) allows the user to select the loads that are transferred for manual operation. However, in 702.5(B)(2), the calculation must show that the generator be sized to handle the full automatic transfer of the load or load shedding must be provided. The final issue was whether a transfer switch installed ahead of the main service disconnect was considered to be main panel and the neutral and ground connection was to be established at this point. 230.85(5) allows a connection ahead of the main for transfer switches, provided that the transfer switch is service rated. If a transfer switch is marked "Utility Service Disconnect Inside", this must be treated as the main service disconnect and the ground and neutral shall be established at this point and panels downstream must have their grounds and neutrals separated. With that, Suzanne thanked everyone and was received with a well deserved round of applause. Prior to the conclusion of the meeting, the president introduced John Elichko, acting secretary of the New Jersey Chapter of IAEE, who mentioned that he is trying to revitalize the Chapter and will hold a meeting on 21 March in Clark, and hopes that many can attend.

With that President Bob Rutan closed the meeting with a record 60 in attendance.

Respectfully Submitted
Greg Chontow