

The *Electrical* CONTACTOR

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ASSOCIATION OF ELECTRICAL CONTRACTORS



MEETING CONFERENCE HAWK'S CAY RESORT

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Executive Vice
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Article 90 - Introduction to
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FAEC Magazine

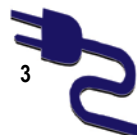
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EXECUTIVE VICE PRESIDENT'S REPORT

Here we are with the first quarter of 2010 behind us and everything seems to be in a whirl-wind. Our National Congress has evoked "privileges" we didn't even know they had let alone, could get away with. With National Healthcare now in place, many companies are wondering how this is going to affect them and their bottom line. Fortune 500 companies are lining up to testify before congress to tell how this will be affecting their companies; posing potential lay-off's in the 1,000's before it's all over and done.

I urge you all to pay special attention to this piece of legislation. Consult with your CPA's and get the most up-to-date information you can to avoid penalties and fines.

While it is my current understanding that companies with 50 or less employees will be exempt from many of the new Statute, those over the 50 will be bearing the burden of the tax implementations.

While construction unemployment is at an all-time high here in our State, according to Rush Limbaugh several months back, we stand at 25% of our construction workforce unemployed. Haven't heard much from many of you in regards to things turning around.

While this is probably the worst economic situation we've been in since the great depression of the late 1920's & early 1930's, this economic recovery will take, in my opinion, quite a while for us all to "recover". With new taxes coming on line almost weekly, it will be harder and harder for mid-size companies to generate a profit.

Now is the time that networking with your fellow contractor members and associate suppliers will prove to be most beneficial. Every project up for bid has multiple sub-contractors all vying for the same project. General Contractors are having a field day with your estimates and the initial "low" price is really never the "low" price. Everyone is doing whatever it takes to survive. Can't tell you how many times I've heard that phrase coined over the past 12-18 months. But, can you really survive and remain profitable by changing the manner in which you've done business in the past?

This remains to be seen! Only time will tell what the results of this economic down-slide will be when it is all over. Hopefully, many of our old friends will still "be standing". I'm sure new companies will "pop-up" to replace those that fold. This is the normal progression in a free enterprise system. Many of our National manufacturer friends are telling me they don't expect a turn-around until late 2012, early 2013; after the next Presidential election. While I hate to think this may be true, many indications are pointing in that direction.

With banks still skeptical about lending and the value of the dollar not what it was two years ago, financial institutions

are very nervous. Without money, there will be no projects built, no projects mean no work, which means higher unemployment? Let's all hope that our economy turns-around soon and we can all put this behind us. I trust the majority of our members will survive this; assuming it doesn't last that much longer

But, let's concentrate on better things. The FAEC Spring Conference at the beautiful Hawk's Cay Resort on Florida's Duck Key is a great opportunity to come and enjoy the Florida sunshine, visit with statewide contractors, learn what they are doing to keep their companies viable in this market and just "get away from it all" for a weekend.

We have great classes lined-up. Tim Moorhead will be on hand to do a great contract language program along with a Sales & Use Tax Update. There will be a CEO program for owners to network amongst each other and share ideas on new ways to generate and secure business. We will have a solar energy program that will present ways to get into the residential and commercial solar energy business. This may prove a viable niche for those of you having difficulty securing work. All classes, as usual, will be CE approved by the ECLB for renewal credit so, why not kill two birds with one stone. Get some much needed credit for license renewal, enjoy the sunshine, go fishing and just relax.

I hope to see you all in April at Hawk's Cay and let's all hope for a great economic turn-around before the summer!

See you on the Beach!

~ Janice

FAEC BENEFITS OF MEMBERSHIP INCLUDE:

- A Voice in the Legislative Process through a lobbyist in Tallahassee.
- A General Liability Insurance Program.
- An Annual "Spring Conference" & "Fall Convention" offering Continuing Education classes relative to license renewal.
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- "Legislative Alerts" distributed throughout the session to keep you abreast of industry concerns.
- The official publication of FAEC - The "Contractor" bringing you up-to-date on association information and industry news.
- The opportunity to interact with fellow contractors to share industry concerns and discuss industry news.
- A Group Major Medical Insurance Program.

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By Kimberly DeBerry Kim's Electric Jacksonville, Florida

With Spring fast approaching, I am so excited about our Spring Conference that is scheduled for April 22-25th at the beautiful Hawk's Cay Resort, Duck Key, Florida. There are so many great courses and speakers that are scheduled for the Conference. Starting from insurance issues to tax issues and of course my favorite is having the opportunity to have Mr. Tim Moorhead with Wright, Fulford, Moorhead and Brown to address issues on Contract Documents, Applications for Payments and Releases, Changes to the Work & Protecting your Right to Payment.

I have been involved in the electrical industry for 26 years and being part of such a great association gives my company and I so many opportunities to learn, network, obtain continuing education, market and of course to have some fun. We have to have fun in this business. My dad sure taught me that. I was a lot younger when I first started getting involved with the association and it humbles me that I am actually the president of such a fine organization. (I know you're thinking just when you think that that it could not get any worse.) On that note I know times are challenging and times are hard with retaining work, keeping your manpower in tact, maintaining business relationships and keeping your doors open during an economy downturn.

This is when we have to be creative, think outside the box, schedule workshops for training. there is such an opportunity to train within the association. Rams has been so valuable to provide 10 hour and 30 hour OSHA training. Training is such a great investment within your organization for safety and productivity and the main thing is stay POSITIVE. Attitudes are contagious.

I would like to close by recognizing Janice Ficarrotto, the Executive Vice President and her staff for all the new items that they have brought to the association. This year we receive a "Technical Bulletin" with all pertinent information on Safety, Technical and Management and also they have established a FAEC State website link-excellent inexpensive marketing opportunity for your organization.

So let's all get involved and hope to see you in April!!



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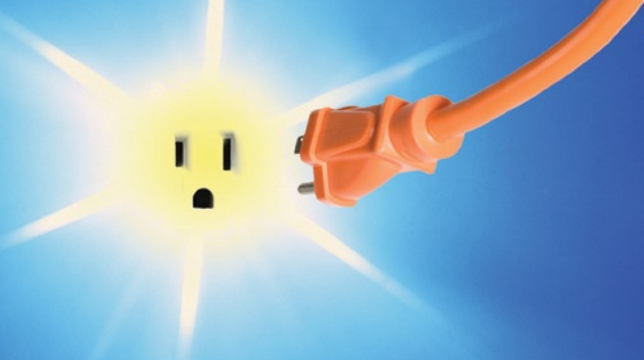


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Article 90

By Mike Holt, NEC Expert

Introduction to the National Electrical Code

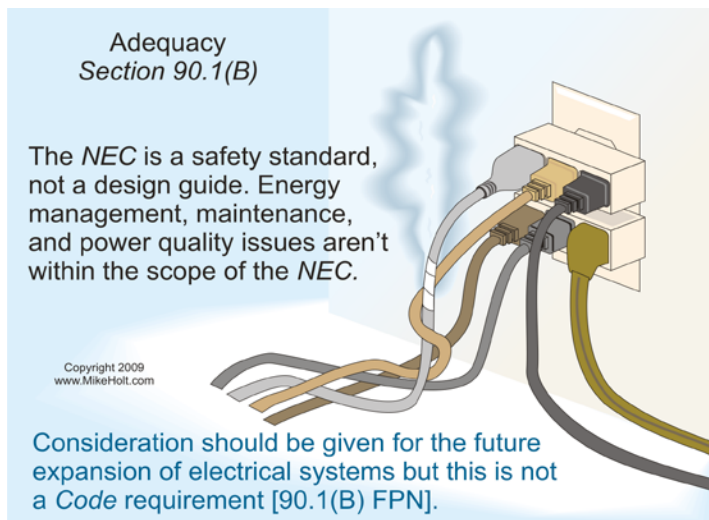
Part 1 of 6:
Mike Holt's Illustrated Guide to Understanding the National Electrical Code

90.1 Purpose of the NEC.

(A) Practical Safeguarding. The purpose of the NEC is to ensure that electrical systems are installed in a manner that protects people and property by minimizing the risks associated with the use of electricity.

(B) Adequacy. The Code contains requirements considered necessary for a safe electrical installation. When an electrical installation is installed in compliance with the NEC, it will be essentially free from electrical hazards. The Code is a safety standard, not a design guide.

NEC requirements aren't intended to ensure the electrical installation will be efficient, convenient, adequate for good service, or suitable for future expansion. Specific items of concern, such as electrical energy management, maintenance, and power quality issues aren't within the scope of the Code. Figure 90-1



FPN: Hazards in electrical systems often occur because circuits are overloaded or not properly installed in accordance with the NEC. These often occur when the initial wiring did not provide reasonable provisions for system changes or for the increase in the use of electricity.

Author's Comments:

- See the definition of "Overload" in Article 100.
- The NEC does not require electrical systems to be designed or installed to accommodate future loads.

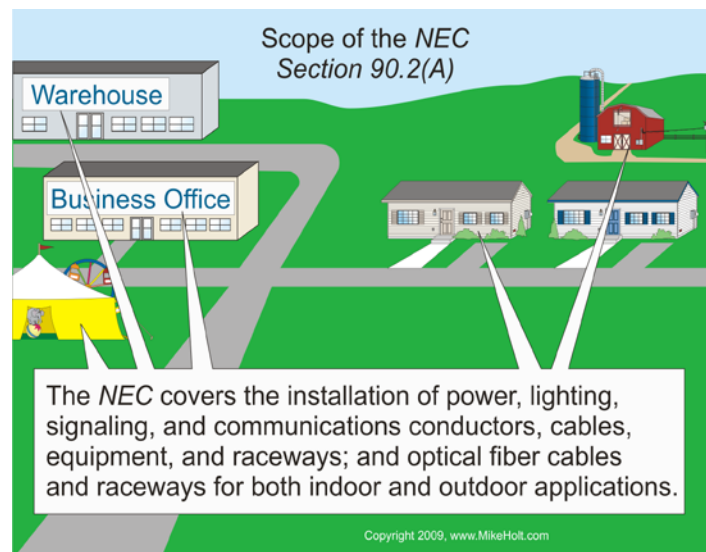
However, the electrical designer, typically an electrical engineer, is concerned with not only ensuring electrical safety (Code compliance), but also with ensuring the system meets the customers' needs, both of today and in the near future. To satisfy customers' needs, electrical systems are often designed and installed above the minimum requirements contained in the NEC.



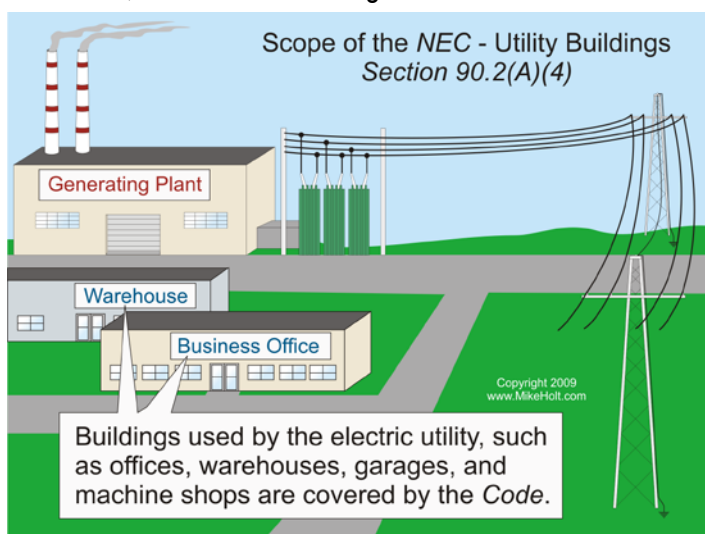
(C) Intention. The Code is intended to be used by those skilled and knowledgeable in electrical theory, electrical systems, construction, and the installation and operation of electrical equipment. It is not a design specification standard or instruction manual for the untrained and unqualified.

90.2 Scope of the NEC.

(A) What is Covered. The NEC contains requirements necessary for the proper installation of electrical conductors, equipment, and raceways; signaling and communications conductors, equipment, and raceways; as well as optical fiber cables and raceways for the following locations: Figure 90-3



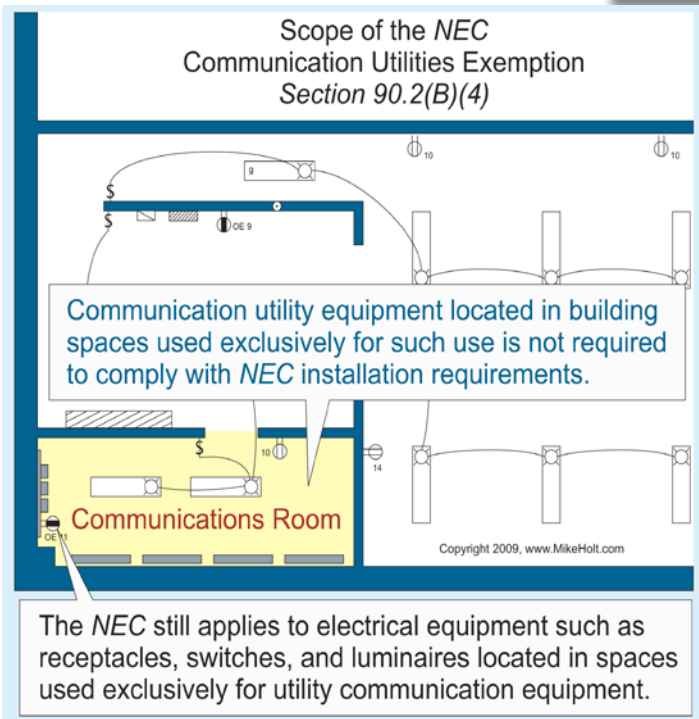
- (1) Public and private premises, including buildings or structures, mobile homes, recreational vehicles, and floating buildings.
- (2) Yards, lots, parking lots, carnivals, and industrial substations.
- (3) Conductors and equipment connected to the utility supply.
- (4) Installations used by an electric utility, such as office buildings, warehouses, garages, machine shops, recreational buildings, and other electric utility buildings that are not an integral part of a utility's generating plant, substation, or control center. Figure 90-4



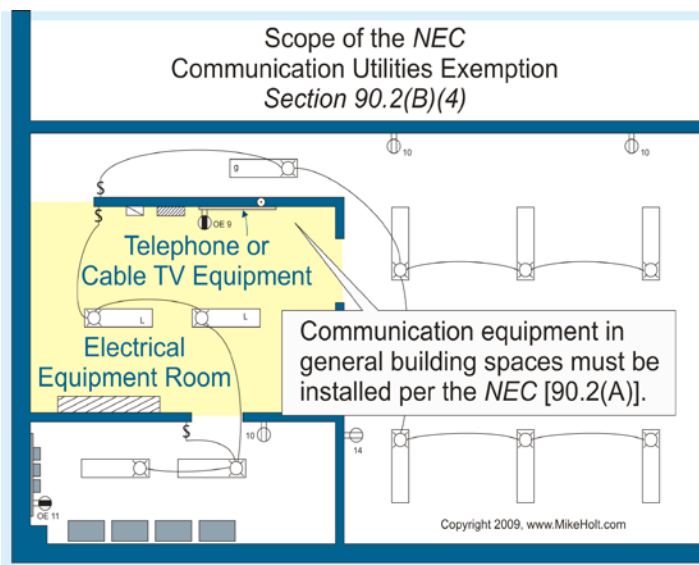
(B) What isn't Covered. The NEC doesn't apply to:

- (1) Transportation Vehicles. Installations in cars, trucks, boats, ships and watercraft, planes, electric trains, or underground mines.
- (2) Mining Equipment. Installations underground in mines and self-propelled mobile surface mining machinery and its attendant electrical trailing cables.
- (3) Railways. Railway power, signaling, and communications wiring.
- (4) Communications Utilities. The installation requirements of the NEC don't apply to communications (telephone), Community Antenna Television (CATV), or network-powered broadband utility equipment located in building spaces used exclusively for these purposes, or out-doors if the installation is under the exclusive control of the communications utility. Figure 90-5

Author's Comment: Interior wiring for communications systems, not in building spaces used exclusively for these purposes, must be installed in accordance with the following Chapter 8 requirements: Figure 90-6

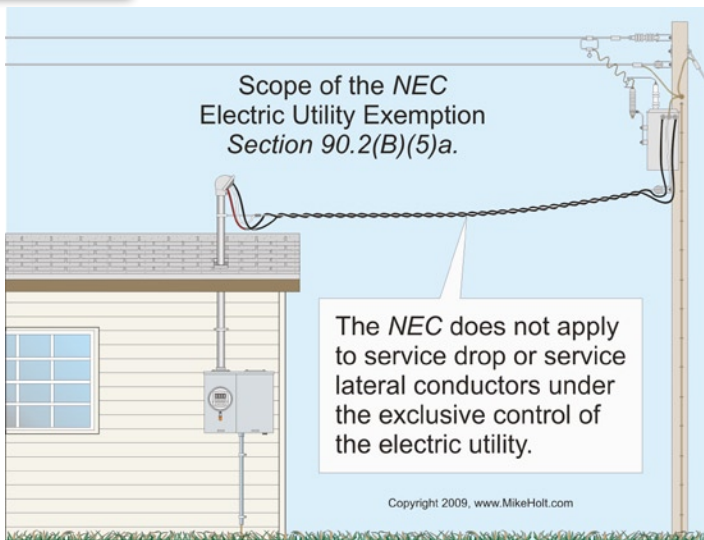


The NEC still applies to electrical equipment such as receptacles, switches, and luminaires located in spaces used exclusively for utility communication equipment.

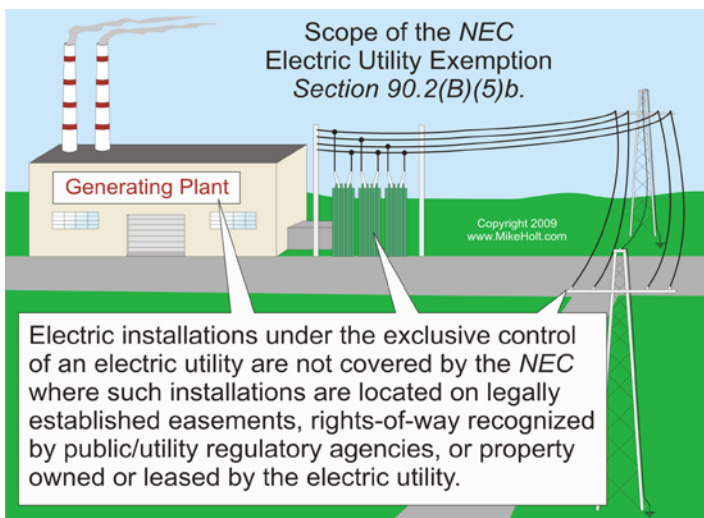


- Telephone and Data, Article 800
 - CATV, Article 820
 - Network-Powered Broadband, Article 830
- (5) Electric Utilities. The NEC doesn't apply to installations under the exclusive control of an electric utility where such installations:
- a. Consist of service drops or service laterals and associated metering. Figure 90-7 (next page)
 - b. Are located on legally established easements, or rights-of-way recognized by public/utility regulatory

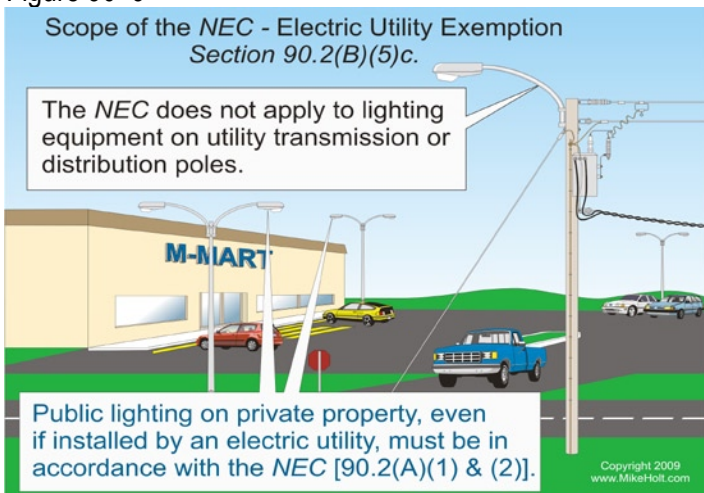
SERIES PART 1 REPORT



agencies, or property owned or leased by the electric utility.
Figure 90-8



c. Are on property owned or leased by the electric utility for the purpose of generation, transformation, transmission, distribution, or meter-ing of electric energy.
Figure 90-9

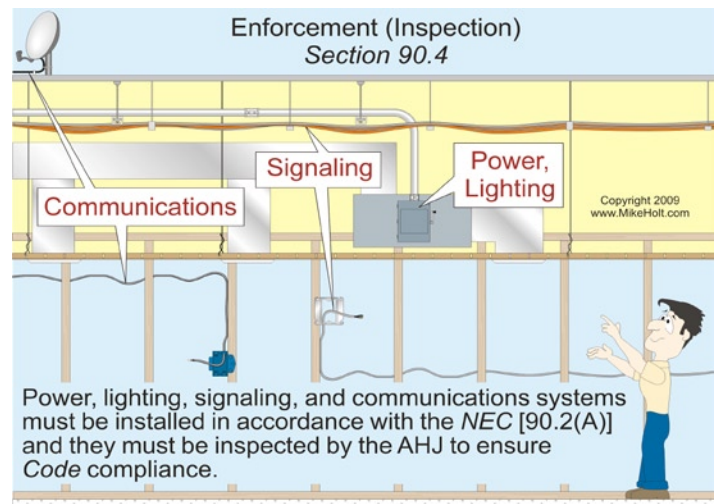


Author's Comment: Luminaires located in legally established easements, or rights-of-way, such as at poles supporting transmission or distribution lines, are exempt from the NEC. However, if the electric utility provides site and public lighting on private property, then the installation must comply with the NEC [90.2(A)(4)].

FPN to 90.2(B)(4) and (5): Utilities include entities that install, operate, and maintain communications systems (telephone, CATV, Internet, satellite, or data services) or electric supply systems (generation, transmission, or distribution systems) and are designated or recognized

by governmental law or regulation by public service/utility commissions. Utilities may be subject to compliance with codes and standards covering their regulated activities as adopted under governmental law or regulation.

90.4 Enforcement. The Code is intended to be suitable for enforcement by governmental bodies that exercise legal jurisdiction over electrical installations for power, lighting, signaling circuits, and communications systems, such as:
Figure 90-11



Signaling circuits which include:

- Article 725 Class 1, Class 2, and Class 3 Remote-Control, Signaling, and Power-Limited Circuits
- Article 760 Fire Alarm Systems
- Article 770 Optical Fiber Cables and Raceways

Communications systems which include:

- Article 800 Communications Circuits (twisted-pair conductors)
- Article 810 Radio and Television Equipment (satellite dish and antenna)

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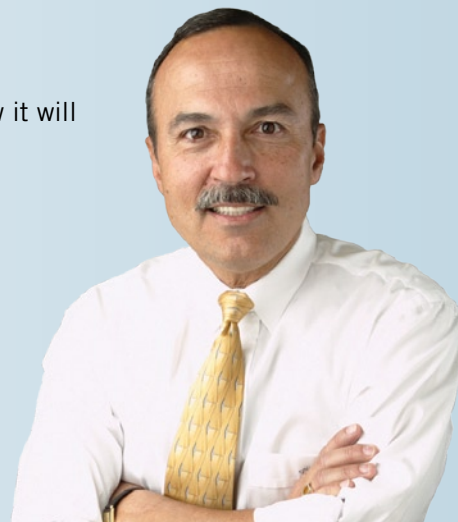
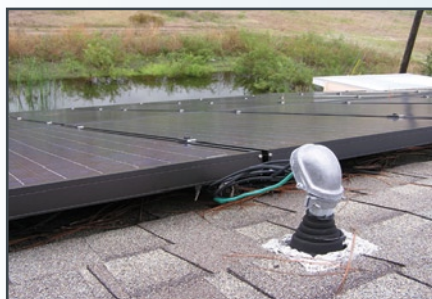
You'll receive a down-to-earth presentation on how this new technology will transform your business and you'll find out what you need to be aware of in terms of opportunities and pitfalls. Join Mike and his team of Solar Industry Experts as they explain each aspect of the solar business.

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"but as for me and my house, we will serve the Lord" [Joshua 24:15]

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SERIES PART 1 REPORT

- Article 820 Community Antenna Television and Radio Distribution Systems (coaxial cable)

- Article 830 Network-Powered Broadband Communications Systems

Author's Comment: The installation requirements for signaling circuits and communications circuits are covered in Mike Holt's Understanding the National Electrical Code, Volume 2 textbook.

The enforcement of the NEC is the responsibility of the authority having jurisdiction (AHJ), who is responsible for interpreting requirements, approving equipment and materials, waiving Code requirements, and ensuring equipment is installed in accordance with listing instructions.

Author's Comment: See the definition of "Authority Having Jurisdiction" in Article 100.

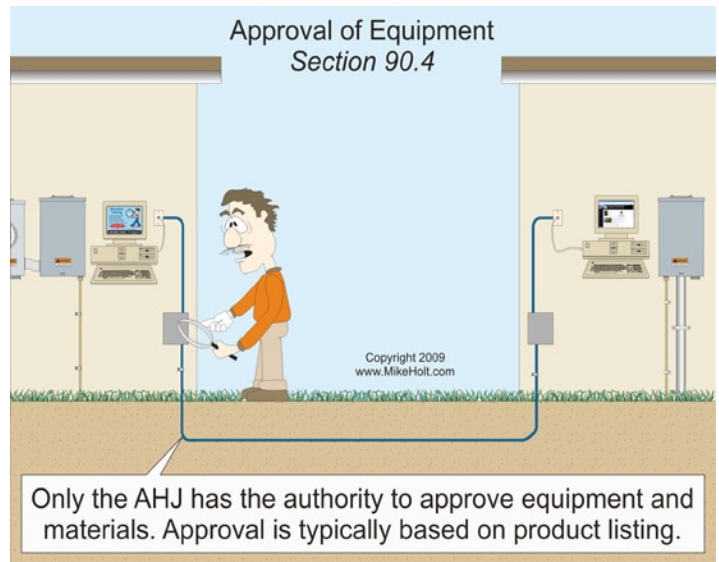
Interpretation of the Requirements. The authority having jurisdiction is responsible for interpreting the NEC, but his or her decisions must be based on a specific Code requirement. If an installation is rejected, the authority having jurisdiction is legally responsible for informing the installer which specific NEC rule was violated.

Author's Comment: The art of getting along with the authority having jurisdiction consists of doing good work and knowing what the Code actually says (as opposed to what you only think it says). It's also useful to know how to choose your battles when the inevitable disagreement does occur.

Approval of Equipment and Materials. Only the authority having jurisdiction has authority to approve the installation of equipment and materials. Typically, the authority having jurisdiction will approve equipment listed by a product testing organization, such as Underwriters Laboratories, Inc. (UL), but the NEC doesn't require all equipment to be listed. See 90.7, 110.2, 110.3, and the definitions for "Approved," "Identified," "Labeled," and "Listed" in Article 100. Figure 90-12

Author's Comment: According to the NEC, the authority having jurisdiction determines the approval of equipment. This means he/she can reject an installation of listed equipment and he/she can approve the use of unlisted equipment. Given our highly litigious society, approval of unlisted equipment is becoming increasingly difficult to obtain.

Waiver of Requirements. By special permission, the authority having jurisdiction can waive specific requirements



in the Code or permit alternative methods where it's assured equivalent safety can be achieved and maintained.

Author's Comment: Special permission is defined in Article 100 as the written consent of the authority having jurisdiction.

Waiver of New Product Requirements. If the 2008 NEC requires products that aren't yet available at the time the Code is adopted, the authority having jurisdiction can allow products that were acceptable in the previous Code to continue to be used.

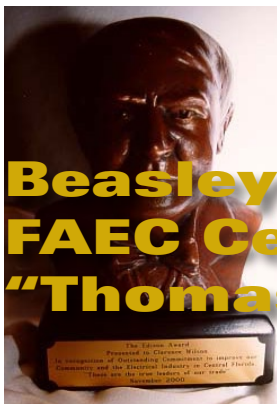
Author's Comment: Sometimes it takes years before testing laboratories establish product standards for new NEC requirements, and then it takes time before manufacturers can design, manufacture, and distribute these products to the marketplace.

Compliance with Listing Instructions. It's the authority having jurisdiction's responsibility to ensure electrical equipment is installed in accordance with equipment listing and/or labeling instructions [110.3(B)]. In addition, the authority having jurisdiction can reject the installation of equipment modified in the field [90.7].

Author's Comment: The NEC doesn't address the maintenance of electrical equipment because the Code is an installation standard, not a maintenance standard. See NFPA 70B—Recommended Practice for Electrical Equipment Maintenance.

CREDIT:

The above text and graphics was extracted from Mike Holt's Illustrated Guide to Understanding the National Electrical Code, which can be ordered online at www.MikeHolt.com, or by calling 1.888.NEC.Code.



Beasley honored with the FAEC Central Florida Chapter "Thomas A. Edison" Award

WINTER PARK, Fla., March 1, 2010 — David M. Beasley is the recipient of the 2009 Thomas A. Edison Award given annually by the Florida Association of Electrical Contractors Central Florida Chapter. The award was presented on February 27, 2010 at the Sheraton Orlando on Ivanhoe Blvd. during the Association's yearly dinner. Last year's recipient, Edward J. Fox, Jr. presented Beasley with the award. According to Cheryl Hardy, Assistant Executive Director, the award recognizes an individual who has unselfishly given their time and heart through charitable work and have strived to improve the Electrical Industry in Central Florida.



The recipients of this prestigious award, presented on an annual basis, emulate the essence of the "spirit" of the electrical industry by going above and beyond to foster good will.

"Genius is One Percent Inspiration and Ninety-Nine Percent Perspiration" ~ Thomas A. Edison

"David's leadership coupled with his work establishing high school and college training programs for the next generation of construction professionals will benefit our industry and community for years to come," said Thomas G. Beard, president, Palmer Electric Co.

A licensed electrical contractor for the past 50 years, Beasley received an honorary Associate of Arts degree in 2008 from Seminole State College. He worked on the design, construction and funding of the Bellwether award-winning Construction Trades Building the Sanford/Lake Mary, Fla., campus.

Beasley is one of the founders of the Academy of Construction Technologies (ACT), an organization that provides high school students with pre-apprenticeship training through dual enrollment in high school and at SSC.

Additionally, Beasley served on the board of trustees and chaired the management education Committee for the National Center for Education Research at the University of Florida's Rinker School of Building Construction in Gainesville, Fla. He is a Charter Member of the John P. Trimmer Fellow for the Construction Education Foundation. Beasley has been on the board of directors, and has chaired various committees for prominent trade associations including the Associated Builders & Contractors, Electrical Council of Florida, and Central Florida Builders' Exchange. Beasley completed the Management Program at Roy E. Crummer Graduate School of Business, Rollins College, Winter Park, Fla. Beasley recently retired from his position as Senior Vice President of Palmer Electric Company, and now consults with the Company.

About Palmer Electric Company:

Palmer Electric Co. is a provider of electrical contracting and service to contractors and builders for new construction and renovations of residential, commercial, institutional and industrial buildings as well as providing service and repairs to utilities, businesses and consumers. Founded in 1951, the Company employs a staff of 350 from its headquarters in Winter Park, Fla. For additional information, visit <http://www.palmer-electric.com>.

About Florida Association of Electrical Contractors:

The Florida Association of Electrical Contractors is a trade organization that represents the needs and concerns of the electrical industries such as code issues, electrical inspections, and supports advanced training, quality and draftsmanship. The member organization is comprised of electrical contractors and industry allies.





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