



March 2015

## Mechanical news from W-S / Forsyth Planning & Development Services

### Questions from Contractors :

1. Question : Where can I find a copy of the DOI Code Interpretations ?

Answer : [http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=Code\\_Interpretations&user=State\\_Building\\_Codes](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Default.aspx?field1=Code_Interpretations&user=State_Building_Codes)

OFFICE OF STATE FIRE MARSHAL  
WAYNE GOODWIN  
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### Engineering and Codes

ENGINEERING AND CODES » STATE BUILDING CODES

#### State Building Codes

#### Code Interpretations

TO SEARCH INTERPRETATIONS ENTER TEXT BELOW THEN CLICK THE APPROPRIATE COLUMN'S SEARCH BUTTON BELOW

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RESOURCES

- 2012 NC Codes
- 2006 NC Codes
- 2002 NC Codes
- 2011 NEC
- Accumulative Supplement to the 2012 NC Building Code

Privacy Policy - Site Map

**2. Question :** When I replace or install any fuel fired appliance inside a home or where the appliance is capable of producing Carbon Monoxide in the home, am I required to install Carbon Monoxide Detectors ?

**Answer :** Yes. The code requires Carbon Monoxide Detectors to be **(installed)** at the bedrooms/sleeping rooms when a fuel fired appliance is installed or replaced. It is your responsibility to make sure the detectors are installed in accordance with the manufactures installation instructions and the detectors comply with **UL 2034**. The detectors laying on a shelf in the box do not meet the code requirements nor do they do not save lives if they are not installed.

**3. Question :** When installing a Hybrid PSI gas system with a manifold, how do I size the manifold ?

**Answer :** The manifold needs to be sized using the total BTU of **all** appliances on the low psi side of the regulator and using the longest length method in accordance with Table **402.4 (8)** when using copper tubing for the low psi gas lines.

**4. Question :** When installing copper tubing for gas lines outside above grade outside, do I need to protect the tubing from damage.

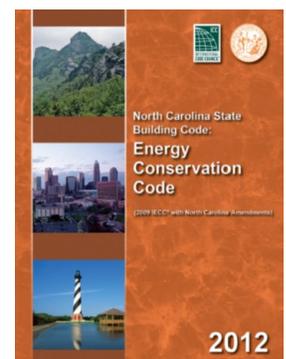
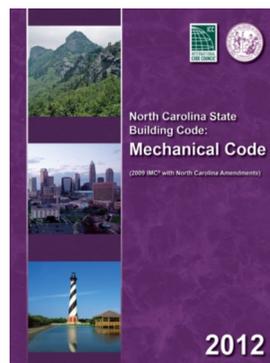
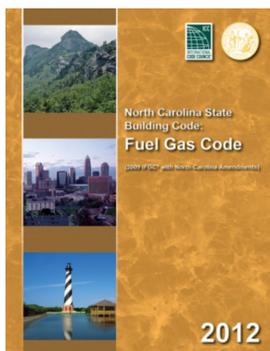
**Answer :** Any gas tubing within 3ft of the ground need to be protected with schedule 40 PVC. **See the following DOI interpretation.**

**Section: 404.7**

**Question: Is aboveground gas piping outdoors required to be protected?**

**Answer: Yes. Section 404.7 states "Piping installed above ground, outdoors, and installed across the surface of roofs shall be securely supported and located where it will be protected from physical damage."**

**Copper tubing, corrugated stainless steel tubing (csst), and brass pipe shall be protected with a schedule 40 polyvinyl chloride (pvc) sleeve or equivalent from a point 3 inches below grade to a point 3 feet above grade. The protection shall be provided at the building, when the piping is not protected by the gas meter, gas appliance or other means, and also at the storage tank when L P gas is used. The protection will not be required for black steel and galvanized steel pipe. When the manufacturer's installation instructions require additional protection, the protection shall be provided. Exposed ferrous metal shall be protected from corrosion.**



## Five and Eleven Month Letters

Our office generates Five and Eleven month letters on permits that are about to expire; a copy of these letters are mailed to your address by USPS. A copy of this letter is also provided to the inspector in that assigned area and the inspector will call the contractor to check the status of the job. If your permit gets placed in stop work status after we have used our resources to keep you informed of your permit status then you will be required to purchase another permit for the work being done. All permits are public record this means anyone has the right to review your permits. When a complaint is filed with the State Board of Examiners of Plumbing, Heating & Fire Sprinkler Contractors, permit records for that contractor are one of the first things they ask us to provide. Please check your records for open/ stop work permits and keep them current. If you need help or would like to discuss this please contact me.

### State Board of Examiners of Plumbing, Heating & Fire Sprinkler Contractors.

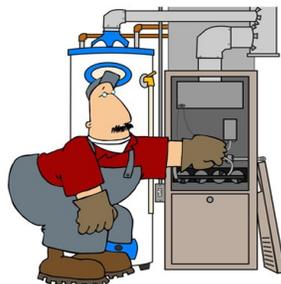
#### 21 NCAC 50 .0402 PERMITS

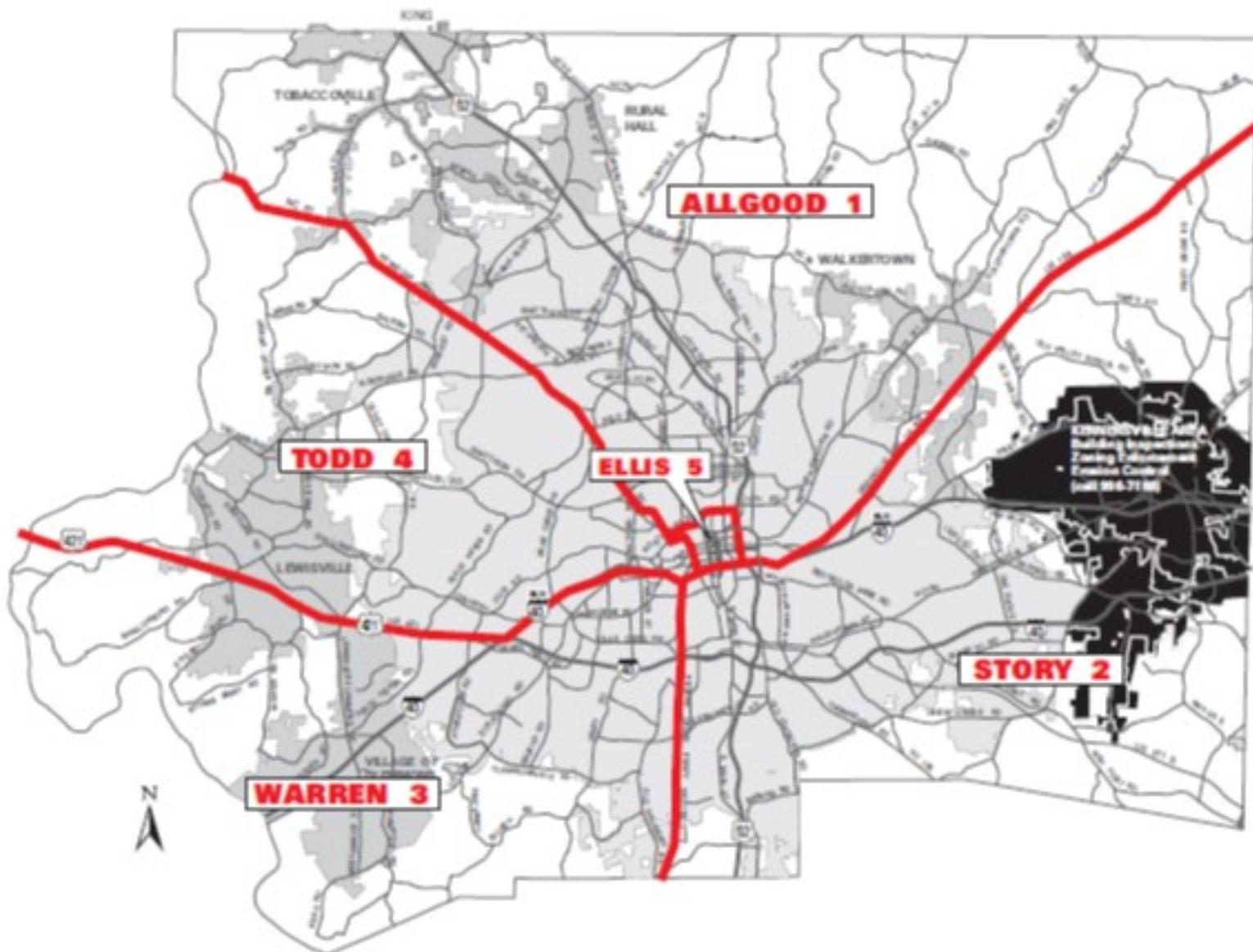
(a) A licensed contractor shall ensure that a permit is obtained from the local Code Enforcement official before commencing any work for which a license is required by the Board, except as set out in Paragraph (c) of this Rule. The contractor shall also ensure that a request for final inspection of the work for which a license is required is made by himself, the general contractor or the owner within 10 days of the earlier of the system being made operational or placed in service, absent agreement with the owner and the local Code Enforcement official. Absent agreement with the local Code Enforcement official the licensee is not relieved by the Board of responsibility to arrange inspection until a certificate of compliance or the equivalent is obtained from the local code enforcement official or the licensee has clear and convincing evidence of his effort to obtain same.

(b) A licensed contractor shall not allow a permit to be obtained or his license number to appear upon a permit except for work which he or his employees perform, over which he or a properly licensed technician will provide general supervision until the completion of the work for which he holds an executed contract with the licensed general contractor or property owner and for which he receives all contractual payments.

**"The Code is not a peak to reach but a foundation to build from."**

If you would like to have your questions answered in our newsletter please send information to [alexe@cityofws.org](mailto:alexe@cityofws.org) or call 336-727-2382, 336-462-7501. Thank You





## Mechanical/Heating Inspector's Work Areas

MECH. / HEATING INSPECTORS	Work Area	Office Phone	Mobile
Alex Ellis (Supr.)	5	727-2382	462-7501
Troy Allgood	1	747-7431	462-7489
Jim Story	2	748-3098	462-7498
Wade Warren	3	734-1394	462-7502
Shawn Todd	4	727-2387	462-7499

