



CITY OF COLLEGE STATION
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AGENDA
CONSTRUCTION BOARD OF ADJUSTMENTS AND APPEALS
Wednesday, October 5, 2011 - 6:00 p.m.
Council Chambers
City Hall
1101 Texas Ave.

1. Call meeting to order.
2. Consideration, discussion and possible action of absence request from meeting.
3. Hear visitors.
4. Presentation, possible action, and discussion to approve minutes from the Construction Board of Adjustments and Appeals Meeting from August 26, 2010.
5. Public hearing, presentation, possible action, and discussion on a recommendation to City Council regarding the 2012 International Plumbing Code (IPC) and related amendments.
6. Public hearing, presentation, possible action, and discussion on a recommendation to City Council regarding the 2012 International Mechanical Code (IMC) and related amendments.
7. Public hearing, presentation, possible action, and discussion on a recommendation to City Council regarding 2012 International Fuel Gas Code (IFGC) and related amendments.
8. Discussion and possible action on future agenda items - A Construction Board member may inquire about a subject for which notice has not been given. A statement of specific factual information or the recitation of existing policy may be given. Any deliberation shall be limited to a proposal to place the subject on an agenda for a subsequent meeting.
9. Adjourn.

Consultation with Attorney {Gov't Code Section 551.071; possible action.
The Construction Board of Adjustments and Appeals may seek advice from its attorney regarding a pending and contemplated litigation subject or attorney-client privileged information. After executive session discussion, any final action or vote taken will be in public. If litigation or attorney-client privileged information issues arise as to the posted subject matter of this The Construction Board of Adjustments and Appeals meeting, an executive session will be held.

Notice is hereby given that a Regular Meeting of The Construction Board of Adjustments and Appeals of College Station, Texas will be held on the 5th day of October, 2011 at 6:00 p.m. at the City Hall Council Chambers, 1101 Texas Avenue, College Station, Texas. The following subjects will be discussed, to wit: See Agenda

Posted this the day of , 2011 at p.m.

CITY OF COLLEGE STATION, TEXAS

By _____
Sherry Mashburn, City Secretary

By _____
David Neeley, City Manager

I, the undersigned, do hereby certify that the above Notice of Meeting of The Construction Board of Adjustments and Appeals of the City of College Station, Texas, is a true and correct copy of said Notice and that I posted a true and correct copy of said notice on the bulletin board at City Hall, 1101 Texas Avenue, in College Station, Texas, and the City's website, www.cstx.gov. The Agenda and Notice are readily accessible to the general public at all times. Said Notice and Agenda were posted on, at and remained so posted continuously for at least 72 hours proceeding the scheduled time of said meeting.

This public notice was removed from the official posting board at the College Station City Hall on the following date and time: _____ by _____.

Dated this ____ day of _____, 2011.

CITY OF COLLEGE STATION, TEXAS

By _____

Subscribed and sworn to before me on this the day of _____, 2011.

**My commission
expires: _____**

This building is wheelchair accessible. Handicap parking spaces are available. Any request for sign interpretive service must be made 48 hours before the meeting. To make arrangements call (979) 764-3517 or (TDD) 1-800-735-2989. Agendas may be viewed on www.cstx.gov.



MINUTES
CONSTRUCTION BOARD OF ADJUSTMENTS AND APPEALS
August 26, 2010
6:00 P.M.
City Hall Council Chambers

MEMBERS PRESENT: Chairman Frank Cox, Mike Lane, Charles Thomas, Bobby Mirza, Glenn Thomas

MEMBERS ABSENT: Alternates Oran Mikeal and Richard Dabney (not needed)

STAFF PRESENT: Assistant Director Lance Simms, Building Official Chris Haver, Assistant City Attorney Adam Falco, Permit Technician Gina Southerland and Staff Assistant Mandi Alford

OTHERS PRESENT: Representative of CSISD, Director of Construction Services Jon Hall

AGENDA ITEM NO. 1: Call meeting to order.

Chairman Frank Cox called the meeting to order at 6:01 p.m.

AGENDA ITEM NO. 2: Consideration, discussion and possible action on absence request from meeting.

There were no absence requests to consider.

AGENDA ITEM NO. 3: Hear visitors for items not on agenda.

There were no visitors.

AGENDA ITEM NO. 4: Consideration, discussion, and possible action to approve minutes from Construction Board of Adjustments and Appeals meeting from November 11, 2009.

Mike Lane motioned to approve the minutes, Glenn Thomas seconded the motion. Motion passed (5-0).

AGENDA ITEM NO. 5: Public Hearing, presentation, possible action and discussion of a recommendation to City Council regarding the 2009 International Plumbing Code regarding waste grinders for food service facilities.

Chairman Cox opened public hearing.

Building Official Chris Haver presented the staff report stating that the proposed amendment would allow the removal of the solids interceptor if the grease trap is designed and sized adequately to allow the proper retention time and rate of flow with the solids being retained in the grease trap. Several manufacturers have designed a grease trap that would eliminate the need for a solids interceptor and grease trap to be installed inline. Thus saving the owner money and allowing for the same protection of the drainage system and public treatment plants.

Jon Hall spoke regarding CSISD staff being open to this amendment.

With no one else stepping forward to speak Chairman Cox closed the public hearing.

Charles Thomas motioned to approve the 2009 International Plumbing Code and related amendments. Mr. Mirza seconded the motion, which passed unopposed (5-0)

AGENDA ITEM NO. 6: Discussion and possible action on future agenda items - A Construction Board member may inquire about a subject for which notice has not been given. A statement of specific factual information or the recitation of existing policy may be given. Any deliberation shall be limited to a proposal to place the subject on an agenda for a subsequent meeting.

None

AGENDA ITEM NO. 7: Adjourn.

Glenn Thomas motioned to adjourn the meeting; Mike Lane seconded the motion, which passed unopposed (5-0). The meeting was adjourned at 6:15 p.m.

APPROVED:

Chairman: Frank Cox

ATTEST:

Permit Technician: Gina Southerland

Construction Board of Adjustments and Appeals

Staff Report

Item: Public hearing, presentation, possible action, and discussion on a recommendation to City Council concerning the adoption of the 2012 International Plumbing Code (IPC) and related amendments

Item Background: The City of College Station currently uses the 2009 edition of the International Codes, including the IPC. The International Code Council issues new code editions every three years. The 2012 I-Codes have been published and are available for adoption by governmental entities. Staff will present an overview of changes included in the 2012 IPC and recommended code amendments.

Staff Recommendation: Staff recommends approving a recommendation that the 2012 IPC and related amendments be forwarded to City Council for adoption.

Attachments: 2012 IPC (Overview of Changes)
Proposed Amendments to the 2012 IPC

2012 International Plumbing Code Overview of Changes

The *2012 International Plumbing Code* (IPC) contains many changes that provide clarity of content and resolve common interpretation problems. The scope of the 2012 IPC continues to encompass the initial design of the plumbing system, the installation and construction of plumbing systems, and the maintenance of operating systems. All plumbing systems which are provided for utilization by and for the general safety and well-being of the occupants of a building are intended to be governed by the code. Plumbing installations associated with one-and-two family dwellings are regulated by the *International Residential Code*.

New in the 2012 Edition

Table 403.1 Minimum Number of Required Plumbing Fixtures (Service sinks are no longer required in Group B Business and M Mercantile occupancies where the occupant load does not exceed 15.)

403.2 Separate facilities (Separate restroom facilities are not required in mercantile occupancies in which the maximum occupant load is 100 or less.)

403.3.6 Door Locking (Locking devices are now specifically prohibited on the egress door of toilet rooms designed for multiple occupants.)

403.5 Drinking fountain location (Where drinking fountains are required, the permitted locations of the fountains have been specified regarding their placement in multi-tenant facilities, similar to the permitted locations for required public toilet facilities.)

Changes to 2012 Edition

403.3.2 Toilet room location (Opening of toilet rooms directly into food preparation areas is prohibited.)

405.3.1 Water closet, urinals, lavatories and bidets (The minimum depth of a water closet compartment containing a wall-hung water closet has been reduced from 60 inches to 56 inches.)

607.2 Hot or tempered water supply to fixtures (The maximum distance between a hot water supply source and all fixtures served by the supply source has been reduced from 100 feet to 50 feet.)

903.5 Location of vent terminals (Requirements that a vent terminal located within 10 feet horizontally of a door, openable window, or other air intake opening be at least 2 feet above the top of the opening has increase the requirement to 3 feet above the top of the opening.)

1003.3.1 Alternate grease interceptor locations (Combination of grease interceptors are now allowed to be provided for renovation projects involving existing buildings where there is insufficient space or it is cost prohibitive to install a large enough in-ground interceptor to meet local sewer ordinance requirements.)

Chapter 13 Gray Water Recycling Systems (Provisions addressing gray-water recycling systems have been relocated from Appendix C to a new Chapter 13 in the body of the code.)

2012 International Plumbing Code Proposed Amendments

Note: An asterisk at the beginning of a section identifies a new amendment with the 2012 code edition.

"E. The International Plumbing Code adopted by reference in Section 101.4.3, 2012 International Building Code is hereby amended as follows:

- 1 Section 102.8 (Referenced codes and standards) is amended by adding the following exception:

'Exception: Any reference to the ICC Electrical Code shall mean the National Electrical Code, as adopted and amended by the City of College Station.'

(Reason: The City of College Station has adopted the National Electrical Code to regulate electrical installations.)

- 2 Section 106.3 (Application for permit) is amended by deleting the text in said section and replacing it with the following:

'The code official may require a permit application for work regulated by this code.'

(Reason: The code as written, requires a written application for plumbing permits. This amendment provides the flexibility of making written permit applications optional.)

- 3 Section 106.6.2 (Fee Schedule) is amended by deleting this section in its entirety.

(Reason: The City currently has a permit fee schedule that has been adopted by resolution.)

- 4 Section 106.6.3 (Fee refunds) is amended by deleting the text in said section and replacing it with the following:

'The City Manager or designee is authorized to establish a refund policy.'

(Reason: A refund policy for permit fees already exists. This amendment also makes the IPC fee refund requirement consistent with section 109.6, 2012 IBC.)

- 5 Section 108.5 (Stop work orders) is amended by inserting the following amounts in the blanks provided at the end of said section:

'twenty-five (\$25.00) in the first blank and two-thousand (\$2,000.00) in the second blank'

(Reason: The amounts above are consistent with the fines as outlined in the adopting ordinance for violations.)

- 6 Section 109 (Means of Appeal) is amended by deleting the section in its entirety.

(Reason: The City already provided for the establishment of the Construction Board of Adjustments and Appeals in Section 1(A), Chapter 3, College Station Code of Ordinances.)

- 7 Section 305.4.1 (Sewer depth) is amended by inserting “twelve (12)” in both blanks and adding the following sentence to the end of said section.

‘Where conditions prohibit the required amount of cover, cast iron pipe with approved joints may be used unless other means of protecting the pipe is provided as approved by the Building Official.’

(Reason: When field conditions do not allow at least 12 inches of ground cover over a sewer line, cast iron pipe is provided as approved by the Building Official.)

- 8 Section 312.1 (Required tests) is amended by deleting the following text from said section:

‘, for piping systems other than plastic, by’

(Reason: This change allows an air test for plastic piping systems – a common practice on job sites without access to water.)

- 9 Section 312.2 (Drainage and vent water test) is amended by deleting said section in its entirety and replacing with the following:

‘312.2 Drainage water test. A water test shall be applied to the drainage system either in its entirety or in sections. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system shall be filled with water to the point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest opening of the section under test, and each section shall be tested with not less than a 10-foot head of water. This pressure shall be held for at least 15 minutes. The drainage system shall then be tight at all points.’

(Reason: This change omits any reference to pressure testing the vent system. It is not a common practice in this area to require a pressure test on the vent system.)

- 10 Section 312.3 (Drainage and vent air test) is amended by deleting said section in its entirety and replacing with the following:

‘312.3 Drainage air test. An air test shall be applied to the drainage piping by forcing air into the system until there is uniform gauge pressure of 5 pounds per square inch (psi) or sufficient to balance a 10-inch column of mercury. This pressure shall be held for a test period of at least 15 minutes. Any adjustment to the test pressure required because of changes in ambient temperature or the seating of gaskets shall be made prior to the beginning of the test period.’

(Reason: This change omits any reference to pressure testing the vent system. It is not common practice in this area to require a pressure test on the vent system.)

- 11 Section 312.10 (Inspection and testing of backflow prevention assemblies.) is amended by deleting said section in its entirety and replacing with the following:

'312.10 Inspection and testing of backflow prevention assemblies. Upon initial installation, an inspection shall be made of all backflow prevention devices and assemblies to determine whether they are operable. Testing of all backflow prevention devices and assemblies shall be in accordance with Chapter 11, Section 10, Subsection F, of the Code of Ordinances, City of College Station, Texas.'

(Reason: Consistent with City Council's direction concerning backflow prevention devices.)

- 12 Section 410.3 (Substitution) is amended by deleting the last sentence in said section and replacing it with the following:

'Where bottle water dispensers are provided in other occupancies, drinking fountains shall not be required.'

(Reason: This change allows bottled water dispensers to be used in place of drinking fountains and is consistent with the requirements in the 2000 IPC.)

- 13 Table 605.3 (Water Service Pipe) is amended by deleting the following materials:

Acrylonitrile butadiene styrene (ABS) plastic pipe
Asbestos – cement pipe
Polybutylene (PB) plastic pipe and tubing
Polyethylene (PE) plastic pipe
Polyethylene (PE) plastic tubing
Polyethylene/aluminum/polyethylene (PE-AL-PE) pipe

(Reason: The piping materials listed above are not commonly used in this area. Furthermore, College Station has relatively high water pressure demanding the best water service piping material.)

- 14 Section 606 (Installation of the Building Water Distribution System) is amended by adding section 606.7 to read as follows:

'606.8 Materials below slab. Water distribution piping installed under concrete slabs shall be copper (minimum type K), cross-link polyethylene (PEX) tubing, or cross-linked polyethylene/aluminum/ polyethylene (PEX-AL-PEX) pipe, all installed without joints or connections. Materials subject to corrosion shall be protected when exposed to concrete or corrosive soils.'

(Reason: This amendment provides an elevated standard for water distribution piping installed under concrete slabs.)

- 15 Section 606 (Installation of the Building Water Distribution System) is amended by adding section 606.9 to read as follows:

'606.9 Sleeved cross-polyethylene piping or tubing. 'When a sleeve is provided for cross-linked polyethylene (PEX) plastic piping or tubing installed under concrete slabs the annular space between the piping or tubing and the sleeve must be caulked, foamed, or otherwise sealed to prevent the entrance of termiticide.'

(Reason: This amendment provides added protection from liquid chemical termiticides that may enter the void between the sleeve and piping /tubing.)

- 16 Section 608.16.5 (Connections to lawn irrigation systems) is amended by deleting the first sentence in said section and replacing it with the following:

'The potable water supply to lawn irrigation systems shall be protected against backflow by an atmospheric vacuum breaker, a pressure vacuum breaker assembly, a reduced pressure principle backflow prevention assembly or a double check.'

(Reason: Consistent with City Council's direction concerning backflow prevention devices.)

- 17 Section 701.2 (Sewer required) is amended by deleting the section in its entirety and replacing with the following:

'701.2 Sewer required. Every building in which plumbing fixtures are installed and all premises having sanitary drainage piping shall be connected to an approved sewer. Private sewage systems must comply with City of College Station's Code of Ordinances (Chapter 11, Section 2). All private sewage disposal systems must comply with the latest adopted standards of the Texas Commission on Environmental Quality and be installed under the direction of the Brazos County Health Department. The installer shall be licensed by the Texas Commission on Environmental Quality.'

(Reason: This change requires private sewer system installations – treatment plants, septic systems, etc. – to comply with state and county health department rules.)"

- 18 Section 1003.3.4 (Hydromechanical grease interceptors and automatic grease removal devices) is amended by deleting the first sentence in said section:

(Reason: Chapter 11, Section 6H, College Station Code of Ordinances, contains detailed provisions for sizing grease interceptors.)

Construction Board of Adjustments and Appeals

Staff Report

Item: Public hearing, presentation, possible action, and discussion on a recommendation to City Council concerning the adoption of the 2012 International Mechanical Code (IMC) and related amendments

Item Background: The City of College Station currently uses the 2009 edition of the International Codes, including the IMC. The International Code Council issues new code editions every three years. The 2012 I-Codes have been published and are available for adoption by governmental entities. Staff will present an overview of changes included in the 2012 IMC and recommended code amendments.

Staff Recommendation: Staff recommends approving a recommendation that the 2012 IMC and related amendments be forwarded to City Council for adoption.

Attachments: 2012 IMC (Overview of Changes)
Proposed Amendments to the 2012 IMC

2012 International Mechanical Code Overview of Changes

The latest code change cycle resolved common interpretation problems and provided clarity of content to the 2012 *International Mechanical Code* (IMC). The code was also changed to reflect current design, construction and inspection methods. In order to keep the IMC up to date on new technology, requirements to assist designers, installers and inspectors as the demand for new energy sources increase.

The 2012 IMC is primarily intended to be a commercial code. Therefore, mechanical installations associated with one-and-two family dwellings are regulated by the *International Residential Code*.

New in the 2012 Edition:

505.1 Domestic systems (Domestic kitchen exhaust ducts are now required to be independent of all other exhaust systems.)

506.3.8 Grease duct cleanouts and openings (Grease duct cleanout doors are now required to be rated at a minimum of 1500 degrees Fahrenheit.)

506.3.9 Grease duct horizontal cleanouts (New requirements for the location of cleanouts in grease ducts.)

507.2 Where required (A Type I or Type II commercial kitchen hood is not required for appliances with listed integral downdraft exhaust systems.)

507.2.1 Type I hoods (Where the cooking process does not produce quantities of grease exceeding the prescribed threshold, a Type I hood is no longer required for electrical cooking appliances.)

805.3 Factory-built chimney offsets (The maximum offset in a factory-built chimney is now specified and the number of offsets has been limited.)

1101.10 Locking access port caps (Locking caps are no longer required on refrigerant access ports if the refrigeration equipment is located in a secure location.)

Changes to the 2012 Edition:

306.5 Equipment and appliances on roofs or elevated structures (It has been clarified that permanent access is required to equipment and appliances on a roof or elevated structure higher than 16 feet above grade, and required clearances are provided to assure access.)

**2012 International Mechanical Code
Proposed Amendments**

Note: An asterisk at the beginning of a section identifies a new amendment with the 2012 code edition.

"D. The International Mechanical Code adopted by reference in Section 101.4.2, 2012 International Building Code is hereby amended as follows:

1 Section 102.8 (Referenced codes and standards) is amended by adding the following exception:

'Exception: Any reference to the ICC Electrical Code shall mean the National Electrical Code, as adopted and amended by the City of College Station.'

(Reason: The City of College Station has adopted the National Electrical Code to regulate electrical installations.)

2 Section 106.3 (Application for permit) is amended by deleting the text in said section and replacing it with the following:

'The code official may require a permit application for work regulated by this code.'

(Reason: The code, as written, requires a written application for mechanical permits. This amendment provides the flexibility of making written permit applications optional.)

3 Section 106.5.2 (Fee schedule) is amended by deleting the section in its entirety.

(Reason: The City currently has a permit fee schedule that has been adopted by resolution.)

4 Section 106.5.3 (Fee refunds) is amended by deleting the text in said section and replacing it with the following:

'The City Manager or his designee is authorized to establish a refund policy.'

(Reason: A refund policy for permit fees already exists. This amendment also makes the IMC fee refund requirement consistent with section 109.6, 2012 IBC.)

5 Section 108.5 (Stop work orders) is amended by inserting the following amounts in the blanks provided at the end of said section:

'twenty-five (\$25.00) in the first blank and two-thousand (\$2,000.00) in the second blank'

(Reason: The amounts above are consistent with fines for violations as outlined in the adopting ordinance.)

6 Section 109 (Means of Appeal) is amended by deleting the section in its entirety.

(Reason: The City has already provided for the establishment of the Construction Board of Adjustments and Appeals in Section 1(A), Chapter 3, College Station Code of Ordinances.)

7 Section 304.7 (Private garages) is amended by deleting the section in its entirety.

(Reason: It is not consistent with current local practice to require appliances to be elevated 6' in private garages. This amendment is also consistent with IFGC amendment.)

8 Section 507.16.1 (Capture and containment test) is amended by deleting the section in its entirety.

(Reason: It is not consistent with local practice to require a capture and containment test on commercial kitchen hoods.)”

Construction Board of Adjustments and Appeals

Staff Report

Item: Public hearing, presentation, possible action, and discussion on a recommendation to City Council concerning the adoption of the 2012 International Fuel Gas Code (IFGC) and related amendments.

Item Background: The City of College Station currently uses the 2009 edition of the International Codes, including the IFGC. The International Code Council issues new code editions every three years. The 2012 I-Codes have been published and are available for adoption by governmental entities. Staff will present an overview of changes included in the 2012 IFGC and recommended code amendments.

Staff Recommendation: Staff recommends approving a recommendation that the 2012 IFGC and related amendments be forwarded to City Council for adoption.

Attachments: 2012 IFGC (Overview of Changes)
Proposed Amendments to the 2012 IFGC

2012 International Fuel Gas Code Overview of Changes

The *2012 International Fuel Gas Code* (IFGC) consolidates all code changes from the fuel gas related installations into one convenient document. It is a compilation of fuel gas related text from the International Mechanical Code, the International Plumbing Code, and the National Fuel Gas Code. The code is designed to complement the family of International Codes, including the International Mechanical Code, the International Plumbing Code, the International Fire Code, and the *International Building Code*.

The IFGC regulates fuel gas distribution piping systems, gas-fired appliance installation and gas-fired appliance venting systems for structures other than one-and-two family dwellings. Fuel gas installations associated with one-and-two family dwellings are regulated by the International Residential Code.

New in the 2012 Edition:

401.9 Identification (Each length of pipe and tubing and each pipe fitting, utilized in a fuel gas system shall bear the identification of the manufacturer.)

308.1 Scope (Gypsum board is often incorrectly thought to be a noncombustible material. Because of this misunderstanding, appliances that require a specific clearance to combustible material have not been required to maintain the required clearance to gypsum board. The code has now clarified that gypsum board is to be addressed in a manner consistent with any other combustible material when reducing clearances to combustibles.)

**2012 International Fuel Gas Code
Proposed Amendments**

Note: An asterisk at the beginning of a section identifies a new amendment with the 2012 code edition.

"C. The International Fuel Gas Code adopted by reference in Section 101.4.1, 2012 International Building Code is hereby amended as follows:

1. Section 102.8 (Referenced codes and standards) is amended by adding the following exception:

"Exception: Any reference to the ICC Electrical Code shall mean the National Electrical Code, as adopted and amended by the City of College Station."

(Reason: The City of College Station has adopted the National Electrical Code to regulate electrical installations.)

2. Section 106.3 (Application for permit) is amended by deleting the text in said section and replacing it with the following:

"The code official may require a permit application for work regulated by this code."

(Reason: The code, as written, requires a written application for gas permits. This amendment provides the flexibility of making written permit applications optional.)

3. Section 106.6.2 (Fee schedule) is amended by deleting the section in its entirety.

(Reason: The City currently has a permit fee schedule that has been adopted by resolution.)

4. Section 106.6.3 (Fee refunds) is amended by deleting the text in said section and replacing it with the following:

"The City Manager or his designee is authorized to establish a refund policy."

(Reason: A refund policy for permit fees already exists. This amendment also makes the IFGC fee refund requirement consistent with section 109.6, 2012 IBC.)

5. Section 109 (Means of Appeal) is amended by deleting the section in its entirety.

(Reason: The City has already provided for the establishment of the Construction Board of Adjustments and Appeals in Section 1(A), Chapter 3, College Station Code of Ordinances.)

6. Section 305.5 (Private garages) is amended by deleting the section in its entirety.

(Reason: It is not consistent with local practice to require appliances to be elevated 6' in private garages.)

7. Section 403.4.3 (Copper and brass) is amended by deleting the section in its entirety.

(Reason: Gas may have a corrosive effect on copper and brass pipe.)

8. Section 403.5.2 (Copper and brass tubing) is amended by deleting the section in its entirety.

(Reason: Gas may have a corrosive effect on copper and brass pipe.)

9. Section 406.1.2 (Repairs and additions) is amended by deleting the existing text in its entirety and replacing it with the following:

"In the event repairs or additions are made after the pressure test, the affected piping shall be tested. If approved by the code official, minor repairs and additions are not required to be pressure tested provided the work is inspected and connections are tested with a noncorrosive leak-detecting fluid or other leak detecting methods."

(Reason: As written, the code would allow gas pipe repairs and additions to be tested with a soap solution. This amendment provides the code official with the discretion to require a pressure test if deemed appropriate.)

10. Section 406.4 (Test pressure measurement) is amended by adding the following to the end of said section:

'For gas systems with a working pressure up to and including five (5) psi., a diaphragm gauge utilizing a dial with a minimum diameter of three and one-half inches (3 ½"), a set hand, 2/10 pound incrementation and a pressure range not more than twenty (20) psi shall be acceptable. A mechanical spring gauge is only acceptable for use on gas systems requiring a pressure test of more than 20 psig.'

(Reason: This amendment allows the use of the more accurate diaphragm gauge for gas tests on systems operating at 5 psi or less.)

11. Section 406.4.1 (Test pressure) is amended by deleting the existing text in its entirety and replacing it with the following:

'The test pressure to be used shall be no less than twice the proposed maximum working pressure, but no less than five (5) psig, irrespective of design pressure.'

(Reason: This amendment provides for an elevated standard for gas pressure.)

12. Section 406.4.2 (Test duration) is amended by deleting the existing text in its entirety and replacing it with the following:

"Gas piping systems shall withstand the required pressure test for a period of not less than ten (10) minutes without showing any drop in pressure."

(Reason: The Code, as written, bases the test duration on the volume of the gas pipe. The amendment also makes the test duration consistent with previous code editions.)"