

VPMIA

VIRGINIA PLUMBING & MECHANICAL INSPECTORS ASSOCIATION

46th Annual School of Instruction

April 1 – 3, 2009 • Winchester, VA

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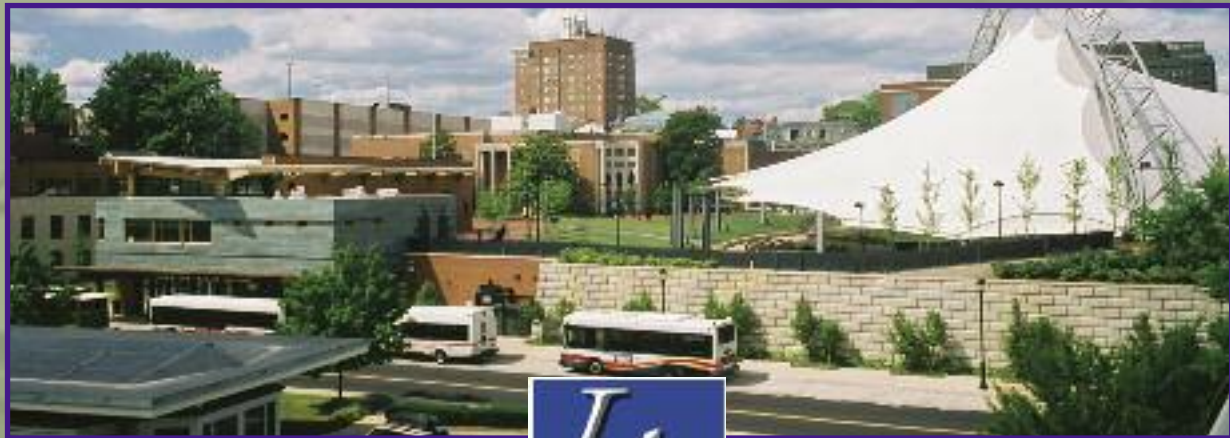
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Welcome to the 46th

VPMIA SOI. For members, new and old, Active and Associates, I implore all to peruse the entire contents of this Yearbook. We have initiated new By-Laws and they are contained within. Take the time to read about our History, Constitution, Code of Ethics/Mission, and Strategic Plan while you're at it.

We are fortunate to have two technical articles again this year. Both the International Code Council and the Air Conditioning Contractors of America have contributed through authors Bob Guenther, and Wes Davis, respectively. Bob's article addresses inquiries about Section 404.1, of the Fuel Gas Code and Wes is giving us a primer on the ACCA

Manual S, the guide to HVAC equipment selection. The latter is a new addition to the ICC 2009 Code. Thank you Bob and Wes.



Ron Bladen
Editor

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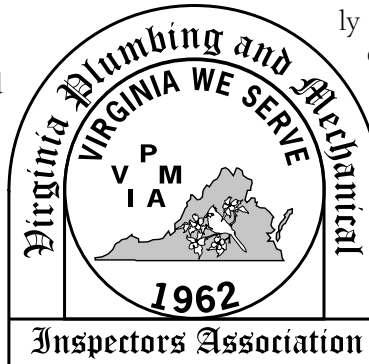
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It has been my privilege and honor to serve as your president this past year. I want to thank the VPMIA members for giving me this opportunity. This has been a very rewarding experience I will never forget. I believe that in the year past we have continued to move forward and have maintained the very high standards of this organization.

This has been a busy year. We have had members teaching classes in several different arenas. Among those were our annual School of Instruction. During our school of instruction we offered training to contractors that counted as continuing education towards maintaining their respective certifications. This is the first time in my recollection that this has been offered. This same training also allowed our inspector members who maintain master or journeyman status to obtain their continuing education hours. Approximately 100 people benefited from this service. This year DHCD accredited VPMIA so that all of our training counts towards the continuing education for inspectors as required by USBC/DHCD.

We were fortunate to have a VPMIA representative serve as the ICC Region VII Chair. Our participation in this venue has proven beneficial as we cooperate with surrounding states to make code changes and create training that will allow us to better serve our industry through uniformity in a regional concept. We also participated in a joint conference with VBCOA. A representative from IAIEI attended this conference and we made progress toward further interaction with that organization. VPMIA's continued leadership in code development and its' commitment to working with sister organizations, will allow us to meet our most important charge – protecting the health, safety and welfare of the citizens of the Commonwealth of Virginia.



This organization will face, in my opinion, some very trying times in the next 2-3 years due to the dire economic straits that have engulfed our state and nation. It is incumbent upon each and every one of us to be innovative and resourceful in continuing our mission as set forth in our VPMIA guidelines. We must constantly remind those in authority that continuing education is important and very necessary even in times of economic downturn. It has been my experience that training and continuing education is one of the first items to be cut by administrators. We at VPMIA can continue as we have in the past to assist our members with scholarships and other incentives to allow them to participate. We also need to encourage new people to step up and assume leadership roles in this wonderful organization. If we seek an eclectic group of participants assembled from all corners of the commonwealth, the individuals and our organization will be the stronger for this action.

In closing, it has been a great pleasure and a wonderful learning experience to serve as VPMIA President. I want to take this opportunity to thank the officers, district directors, and members who have assisted me in every instant with dispatch and aplomb. I promised when I accepted this honor that I would do my dead level best to maintain the high standards that had been established. In my heart I believe we have done that. May we all continue to work together to ensure the future of VPMIA.

John W. Mills
VPMIA President
2008-2009

<p>Save the Date: Friday, July 31, 2009</p>		<p>Summer School of Instruction Graves Mountain Lodge</p>
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VPMIA 2009 School of Instruction

Hampton Inn • 1204 Berryville Avenue • Winchester, VA • 540-678-4000

Wednesday, April 1

7:00 - 8:30 a.m.	REGISTRATION
8:30 - 10:00 a.m.	RAINWATER HARVESTING TECHNOLOGY
10:00 - 10:30 a.m.	BREAK
10:30 - 12:00 p.m.	NFPA 58 & IFGC 2006
12:00 - 1:00 p.m.	LUNCH
1:00 - 2:30 p.m.	CLASS RESUMES
2:30 - 3:00 p.m.	BREAK
3:00 - 4:30 p.m.	3M FIRE PROTECTION PRODUCTS
5:00 - 6:00 p.m.	PRESIDENT'S WELCOME
6:00 - 7:30 p.m.	SOUTHERN BARBECUE

Thursday, April 2

8:30 - 10:00 a.m.	RESIDENTIAL SPRINKLER SYSTEMS per 2009 IRC
10:00 - 10:30 a.m.	BREAK
10:30 - 12:00 p.m.	TANKLESS WATER HEATERS / IPC
12:00 - 12:15 p.m.	VPMIA GENERAL MEMBERSHIP MEETING - PART 1
12:00 - 1:00 p.m.	LUNCH
1:00 - 2:30 p.m.	INTERNATIONAL MECHANICAL CODE 2006 VENTILATION AIR REQUIREMENTS Amended per VUSBC
2:30 - 3:00 p.m.	BREAK
3:00 - 4:30 p.m.	CLASS RESUMES
6:00 - 10:00 p.m.	BANQUET—AWARDS

Friday, April 3

8:00 - 9:00 a.m.	BREAKFAST BUFFET
9:00 - 12:00 p.m.	GENERAL MEMBERSHIP MEETING - PART 2

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Larry H. Dehaven

Larry H. Dehaven's dedication to the Plumbing and Mechanical trade spans forty years as a Master Plumber and Code Enforcement Officer. His service to the VPMIA includes Past District II Director and has served on several Plumbing and Mechanical code change committees. He received the D Paul Jack Award in 2001/02 and is currently a Life Time Member with the VPMIA Association. Larry will be retiring from his Senior Plumbing & Mechanical Inspector/Design Review Specialist position with the Frederick County Building Inspections Department on April 1, 2009. His devotion and hard work are good examples of why VPMIA and the Plumbing and Mechanical Inspector profession are a success today.

Virginia Plumbing & Mechanical Inspectors Association

Foundation's Vision Statement

VPMIA members are committed to providing code development leadership and continuous training that results in uniform application of the codes. We look for opportunities to partner with all who are impacted and strive to develop and deliver codes and standards that result in health, safety, and welfare protection for the public.

Mission

VPMIA is an association of code professionals dedicated to promotion of uniform enforcement and development of the codes throughout the Commonwealth to assure the health, safety, and welfare of its citizens and any one who may live, work, or visit the state of Virginia. The pursuit of this endeavor is achieved through close, open, and equal working relationships with design professionals, builders, contractors, material manufacturer's and others involved in the construction industry. VPMIA supports the ICC, its goals and mission.

Strategic Plan Mission

VPMIA's strategic plan is to advance our mission through training in order to promote better understanding of the benefits and efficiency of using model codes. The association promotes teamwork, while embracing fairness and respect to all involved parties, always maintaining open communications in every aspect to those who participate in the process.

CODE OF ETHICS

We the members of Virginia Plumbing and Mechanical Inspectors Association recognize that our work has a direct and vital impact on the quality of life for all people in the Commonwealth of Virginia, and we are dedicated to the highest standards of professionalism, integrity and competence. We therefore pledge to maintain and advance these ethical principles:

- Place the public safety and health above all other interests and recognize that the primary function of government is to service the best interests of all people.
- Consider my profession a distinct opportunity to serve society.
- Demonstrate integrity, honesty and fairness in the discharge of my duties by striving to achieve excellence in all matters of ethical conduct.
- Treat all persons courteously, equally and fairly.
- Conduct myself at all times in such a manner as to create and maintain respect for the Virginia Plumbing and Mechanical Inspectors Association and the industry it represents.
- Refuse to leverage my position to secure advantage of favor for myself, my family or my friends.
- Neither accept nor offer, any gift, favor or service that might tend to influence me in the discharge of my professional duties.
- Refrain from representing private interests in any business or technical affairs of this Association
- Use every opportunity to improve public understanding of the Virginia Plumbing and Mechanical Inspectors Association and its important contribution to the Commonwealth of Virginia.
- Maintain loyalty to the Virginia Plumbing and Mechanical Inspectors Association, and pursue its objectives in ways that are consistent with the public interest.

ACTIVE

- * MR. U. EARL ALLEN
- * MR. E. W. BAUGHAN
- MR. FRANK BOSMA
- * MR. E. R. CARR
- * MR. EUGENE COBANKS
- MR. M. D. COOPER
- * MR. GORDON I. DAMERON
- * MR. JAMES B. JONES, JR.
- * MR. PARL C. KING
- * MR. CHARLES E. MANNION
- * MR. JOHN B. MASON
- MR. CURTIS H. NUNALLY
- * MR. WILLIAM G. PRIDDY

ASSOCIATE

- * MR. JOSEPH E. BAKER
- * MR. T. C. BROWN
- * MR. CHARLES E. WESSMAN

LADIES AUXILIARY

- * MRS. RUTH BIANCO
- * MRS. ANN COBANKS
- * MRS. IRMA DRAKE
- MRS. RUTH JACK
- MRS. MARGARET KING
- MRS. SONIA SCHROECK
- MRS. SHIRLEY WILLIAMS
- * Indicates Deceased

CHARTER MEMBERS





RESOLUTION

March 12, 2009

WHEREAS; John Michael Clift, 47 years old, of King George County passed away Wednesday, March 11, 2009,

WHEREAS; John Michael Clift was a long time Active Member of the Virginia Plumbing and Mechanical Inspectors Association and the Virginia Building Code Officials Association. John attended and assisted annual Schools of Instruction and many other activities where his many contributions were noted and appreciated,

WHEREAS; John Michael Clift served as Building Official for the County of King George,

WHEREAS; John Michael Clift was a member of Fletcher's Chapel United Methodist Church and, as everyone knows, was always willing to give a helping hand at any task, and also was an avid hunter and woodworker,

WHEREAS; John Michael Clift served as Treasurer, Secretary and Vice President for the Virginia Plumbing and Mechanical Inspectors Association and had been nominated to serve as President for the year 2009,

WHEREAS; The Virginia Plumbing and Mechanical Inspectors Association notes with great sadness the passing of John Michael Clift, now, therefore, be it

RESOLVED; That the Virginia Plumbing and Mechanical Inspectors Association extends heartfelt sympathy to the family of John Michael Clift and

RESOLVED; That the Virginia Plumbing and Mechanical Inspectors Association stands in readiness to assist the family of our friend, John Michael Clift, in any aspect possible in helping his family through this difficult time of death and bereavement.

Most sincerely,

JOHN W. MILLS
President

RESOLUTION

March 17, 2009

WHEREAS; That Paul David Hostetler passed away Sunday, March 15, 2009. He was born August 20, 1931.

WHEREAS; That Paul Hostetler served his beloved country as a member of the United States Navy for twenty years where he served on several Submarines, a Radar Picket Destroyer, and was assigned to Submarine Division and Squadron Commanders Staffs in Key West, Florida and Norfolk, Virginia;

WHEREAS; That upon retirement from the U.S. Navy, Paul Hostetler became involved in the construction field in North Dakota and Virginia. He later founded his own General Contracting business;

WHEREAS; That due to an injury, Paul was forced to give up his contracting business, however, Albemarle County was offered, and he accepted, a position as Plumbing Inspector. Paul then proceeded to become certified in nearly every discipline offered by the Code Industry;

WHEREAS; That Paul Hostetler retired from Albemarle County as the Chief Commercial Fire Protection Systems, Hazardous Material Storage Systems, and Mechanical Systems Inspector;

WHEREAS; That Paul Hostetler was then employed as Building Official for the Town of Scottsville, Virginia, until final retirement,

WHEREAS; That Paul Hostetler is a Lifetime Member of VPMIA having served in all chairs, except Secretary, of the Board of Directors, plus the position of Executive Secretary and Chair or member of many committees;

WHEREAS; That Paul Hostetler is the recipient of the most prestigious D. Paul Jack and Gordon I. Dameron Awards issues by VPMIA. He is also a retired member of the James Madison Building and Code Officials Association (Region IV, Virginia Building and Code Officials Association) and a member of the International Code Council, plus many military and ship's reunion associations, be it

RESOLVED; That the Officers, Board of Directors, and the entire Membership the Virginia Plumbing and Mechanical Inspectors Association stands in readiness to assist the Hostetler family in any aspect possible through this difficult time,

RESOLVED; That this Resolution be published in the Virginia Plumbing and Mechanical Inspectors Association Yearbook as a permanent memorial to the memory of Paul David Hostetler.

Most sincerely,

JOHN W. MILLS
President

OUTSTANDING SERVICE

Gordon I. Dameron Active Award

1981-1982	Kenneth R. Synder, Jr.
1982-1983	Jesse R. Hurt
1983-1984	George H. Williams, Jr.
1984-1985	Robert M. Broome
1986-1987	Paul M. Adams
1988-1989	Paul Hostetler Joseph Hall
1989-1990	Dennis W. McNaughton
1990-1991	Floyd Proffitt
1991-1992	Jeffrey Shawver
1992-1993	Tommy Cantrell
1993-1994	Hassel E. DeShazo
1994-1995	Doug Stover Jack Rhoden
1995-1996	Robert D. Carroll
1996-1997	Roy N. McFarland, Jr.
1997-1998	Kathleen T. Dye
1998-1999	_____
1999-2000	Michael D. Thuot
2000-2001	Guy Tomberlin
2001-2002	John B. Seay, Jr.
2002-2003	Dennis Martinelli
2003-2004	Geary Showman
2004-2005	James T. Moore
2005-2006	Wayne Kushner
2006-2007	James Anjam
2007-2008	Richard Witt

David L. Carr Associate Award

1981-1982	William E. Foley
1982-1983	John V. Duley
1983-1984	J. C. Nuckols
1984-1985	Lawrence R. Muse
1986-1987	David Maupin
1987-1988	Ronald Bryant
1988-1989	Robert W. Price
1989-1990	Fred Borden, Jr.
1990-1991	Billy E. Leeder
1992-1993	James B. Muncy
1993-1994	John Otto
1994-1995	Danny & Laurie Crigler
1995-1996	James B. Hylar
1996-1997	J. C. Nuckols
1997-1998	James S. Steinle
1998-1999	Thomas C. Roberts
1999-2000	David Johnston
2000-2001	David L. Maupin
2001-2002	Lorrie Norton
2002-2003	Allen Tryall
2003-2004	Jonathan Sargeant
2004-2005	_____
2005-2006	_____
2006-2007	_____
2007-2008	Jay Otto

LIFETIME MEMBERSHIP

D. Paul Jack Active Award

1988-1989	Edward J. Baldwin, Jr.
1989-1990	George H. Williams, Jr.
1990-1991	Kenneth R. Snyder, Jr.
1991-1992	Jesse R. Hurt
1992-1993	Douglas Stover
1993-1994	Ernest "Bud" Lester
1994-1995	Paul Hostetler
1995-1996	Paul M. Adams
1996-1997	Michael D. Redifer
1997-1998	Hassel E. DeShazo
1998-1999	Kathleen T. Dye
1999-2000	_____
2000-2001	William F. Hines
2001-2002	Larry Dehaven
2002-2003	Lawrence Nuckols
2003-2004	Roy McFarland, Jr.
2004-2005	Guy Tomberlin
2005-2006	Stephen P. Borders
2006-2007	Charles Gerber
2007-2008	James T. Moore

John A. Otto Associate Award

1988-1989	Cecil F. Hardee, Sr.
1989-1990	J. Richard Maher
1990-1991	David L. Carr
1991-1992	Robert W. Price
1992-1993	_____
1993-1994	Billy E. Leeder
1994-1995	James B. Muncy
1995-1996	Thomas C. Roberts
1996-1997	Tom Kreutzer
1997-1998	James S. Steinle
1998-1999	John Otto
1999-2000	_____
2000-2001	Herbert L. Joyner
2001-2002	Laurie/Danny Crigler
2002-2003	Dave Johnson
2003-2004	_____
2004-2005	_____
2005-2006	_____
2006-2007	David Maupin
2007-2008	_____

VPMIA Past Presidents

CHARLES E. MANNION	1963*
PAUL C. KING	1964*
GORDON I. DAMERON	1965*
D. PAUL JACK	1966*
FRANK B. BOSMA	1967
U. EARL ALLEN	1968*
HARRY CONTE	1969
JAMES B. JONES	1970*
L. W. FURMAN	1971
GEORGE H. WILLIAMS	1972*
W. T. DRAKE	1973*
BENJAMIN BIANCO	1974
J. L. SHIFFLETT	1975
HOMER O. DENNIS	1976
JULIAN E. MEREDITH	1977
EDWARD T. PARSONS	1978*
EDWARD J. BALDWIN, JR.	1979
HENRY A. RODÉS	1980*
RUDOLF SCHROECK	1981
JESSE R. HURT	1982
CHARLES DEDIAN	1983
KENNETH R. SNYDER, SR.	1984
LAWRENCE J. NUCKOLS	1985
JOHN W. THURSTON	1986*
WILLIAM F. HINES	1987
LESLIE A. COURTNEY	1988
JIMMY A. ENGLISH	1989
DOUGLAS L. STOVER	1990
ROBERT M. BROOME	1991
PAUL D. HOSTETLER	1992
DENNIS W. McNAUGHTON	1993
JOHN S. TRENARY	1994
MICHAEL D. REDIFER	1995/1996
KATHLEEN T. DYE	1997
HASSEL DeSHAZO	1998
ROY N. McFARLAND, JR.	1999/2000
CLEATIS DYE, JR.	2001
CHARLES GERBER	2002
GUY TOMBERLIN	2003/2004
GEARY SHOWMAN	2005
MICHAEL THUOT	2006
JOHN SEAY	2007
DENNIS MARTINELLI	2008
JOHN MILLS	2009

*Denotes deceased

—From Ron Bladen, Chairman—
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Wes Davis, Air Conditioning Contractors of America

ARTICLE I — The Name, Seal, and Address of this Association

Section 1. The name shall be the Virginia Plumbing and Mechanical Inspectors' Association; herein and hereafter referred to as the Association.

Section 2. The seal shall be as indicated below:

Section 3. The address shall be that of the Executive Secretary or as otherwise designated by the Board of Directors.

ARTICLE II — Objectives

Section 1. The objectives of the Association are:

- A. To participate in the formulation of Virginia Plumbing and Mechanical Code provisions.
- B. To promote uniform understanding and application of the Virginia Uniform Statewide Building Code.
- C. To promote and secure uniform inspection methods throughout the Commonwealth of Virginia.
- D. To promote closer industry unity between code officials, governing agencies and the private sector.
- E. To promote and improve the standard of professional plumbing and mechanical inspectors.
- F. To provide professional development through an annual education and training seminar which shall be known as the School of Instruction.
- G. To encourage growth of the Association by providing enhanced services to its members and by promoting strong leadership values, respect and the pursuit of common goals.

ARTICLE III — Membership

Section 1. Active membership shall be open to code officials actively engaged in plumbing and/or mechanical code enforcement. Application for membership shall be in writing and submitted to the Executive Secretary.

Section 2. Associate membership shall be open to those persons interested in the design, manufacture, installation or sale of plumbing and/or mechanical systems and who are willing to promote the objectives of the Association. Application for membership shall be in writing, submitted to the Executive Secretary and reviewed by the Board of Directors for approval.

Section 3. Retired membership shall be open to those members submitting written application for retired status to the Executive Secretary.

Section 4. Life membership may be extended only to Active and Associate members who have significantly contributed to promoting the objectives of the Association. Life members may be nominated and approved by the general membership at the third general membership meeting. Life membership shall be limited to one Active member and one Associate member per calendar year.

Section 5. Charter members are those who founded the Association.

Section 6. Honorary membership shall be open to those persons who are not members of the Association but have made a significant

contribution in promoting the objectives of the Association. Nominations for Honorary membership shall be in writing, submitted to the Executive Secretary by any member and reviewed by the Board of Directors for approval.

Section 7. All members shall conduct themselves in accordance with the Associations Code of Ethics.

ARTICLE IV — Board of Directors

Section 1. The Association shall be governed by a Board of Directors, herein and hereafter referred to as the Board, which shall consist of the elected officers, District Directors, the Director-at-Large and the Chairperson of each standing committee.

Section 2. The Board shall manage the policies, business, property and affairs of the Association.

Section 3. Officers

- A. The officers of the Association shall consist of a President, Vice President, Secretary and Treasurer. The officers shall be Active members and shall be elected and installed during the annual School of Instruction.
- B. The officers shall hold office from the close of the annual School of Instruction through the close of the annual School of Instruction of the following year. Officers shall serve no more than two consecutive terms in the same office.

Section 4. Directors

- A. A total of four active members may be elected as District Directors. The Directors shall be Active members and shall be elected and installed during the annual School of Instruction.
- B. The Directors shall hold office from the close of the annual School of Instruction through the close of the annual School of Instruction the following year.
- C. Each District shall consist of all cities, towns and counties as outlined in Appendix A.
- D. The Director-at-Large shall be the immediate Past President.
- E. Non-voting Ex-officio members on the Board of Directors shall include the President, or his or her duly appointed representative, of the Virginia Chapter of the International Association of Electrical Inspectors, The Virginia Fire Prevention Association, and The Virginia Building Code Officials Association.

Section 5. In the event that an Officer or Director resigns, the Board shall appoint, as soon as possible, an Active member to fill the unexpired term.

Section 6. Appointments

- A. An Executive Secretary shall be appointed by the Board for a maximum term of five years or as determined by the Board. Compensation of services rendered shall be as approved by the Board.
- B. A Director of Finance shall be appointed by the Board for a maximum term of five years or as determined by the Board. Compensation of services rendered shall be as approved by the Board.



ARTICLE V — Duties of the Officers, Directors, Executive Secretary and Finance Director

Section 1. The President

- A. To preside over all meetings.
- B. To select all committee chairpersons except the finance and the nominating committees.
- C. The President may appoint members to represent the Association on local, state or national committees, boards and similar entities when such representation is requested or provided for by regulation or statute. Appointments shall not conflict with the Association's by-laws or code of ethics.
- D. To be an ex-officio member of all committees except the nominating committee.
- E. To perform such other duties applicable to the office as prescribed by the parliamentary authority adopted by the Association.

Section 2. The Vice President

- A. To assist the President at all meetings.
- B. To preside over all meetings in the absence of the President.
- C. To perform such other duties as applicable to the office as prescribed by the parliamentary authority adopted by the Association.

Section 3. The Secretary

- A. To assist the presiding officer with the orders of business and to distribute correspondences to all members present.
- B. Notification of meetings.
 1. To send to all Board members a notice of every Board meeting at least twenty days in advance of such meeting.
 - a. Ten days notice, including an agenda, shall be given for all special meetings.
 2. To send all members a notice of every General Membership meeting at least thirty days in advance of such meeting.
- C. To accurately record all business transacted at all meetings.
- D. To maintain and have available at all meetings the official minute book.
- E. To record the voting at all meetings.
- F. To send letter ballots to all Board members not present at meetings for which there is no quorum.
- G. To perform such other duties as applicable to the office as prescribed by the parliamentary authority adopted by the Association.

Section 4. The Treasurer

- A. To accurately record and post all funds received and disbursed. Shall be bonded for at least fifty thousand dollars. The bond premium shall be paid by the Association.
- B. To pay all bills that have been approved as per the budget or by the Board.
- C. To submit a quarterly report of the Association's finances to the Finance Committee.
- D. To submit a report of the Association's finances at all meetings, except special meetings unless included in the special meeting agenda.
- E. To send all membership renewals by December 1 of each year.
- F. To maintain the financial records of the Association on a fiscal year from May 1 through April 30, unless otherwise approved by the Board.
- G. To be a standing member of the Finance Committee.
- H. To perform such other duties as applicable to the office as prescribed by the parliamentary authority adopted by the Association.

Section 5. The District Director

- A. To attend the Board and General Membership Meetings per term of office.
- B. To assist in the management of the Association.
- C. To report any concerns of the members within their district to the Board.

Section 6. The Executive Secretary

- A. To prepare for the Board all business that has not been assigned to others.
- B. To present or have presented at all meetings all reports received from committee chairpersons.
- C. To recommend plans of work and conduct the general business of the Association under the direction of the Board and the General Membership.
- D. To be a standing member of the School of Instruction Committee.
- E. To authorize both active and/or retired membership status.
- F. To maintain all membership applications.
- G. To receive the letter of resignation of an Officer or Director and present it at the next Board meeting.
- H. To send to each Director a current roster of all members within their respective districts no more than thirty days after the third General Membership meeting.
- I. To maintain and have available at all meetings a current roster which lists only members in good standing by district affiliation.

Section 7. The Director of Finance

- A. To coordinate the finances of the Association.
- B. To serve as the chairperson of the Finance Committee.

(continued next page)

VIRGINIA PLUMBING AND MECHANICAL INSPECTORS ASSOCIATION CONSTITUTION AND BY-LAWS (continued)

ARTICLE VI — Committees

Section 1. The number of committee members, mentioned below, includes the chairperson. Standing Committee chairpersons are appointed by the President, see previously in the text, Article V, Section 1.B. Standing Committee members are selected by the committee chairperson as stated hereinafter in this Article or are established within the description of the committee. Standing Committee members that are established by the text are in addition to those members appointed and selected. Standing Committees may include, but are not limited to. The following:

- A. An Advertising Committee, composed of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to manage an advertising campaign and publish the yearbook for the Association's School of Instruction.
- B. An Auditing Committee, comprised of three members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to audit the Treasurer's account(s) at the close of the calendar year and report at the fourth regular Board meeting. The Treasurer shall not be a member of this committee.
- C. An Awards Committee, comprised of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to select and present, the awards for Outstanding Service to the Active and Associate members of the Association and the awards to the individuals that are the outstanding plumbing and mechanical apprentice of the year.
- D. A By-laws Committee, comprised of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to review, discuss, prepare and recommend, to the Association, any necessary changes to the Association's By-laws in order to maintain current directives for the administration of the Association..
- E. A Certification, Education, and Training Committee, comprised of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to organize educational classes for the School of Instruction.
- F. A Finance Committee, comprised of three members, the Treasurer and the Finance Director, shall be appointed within thirty days after the third General membership meeting. It shall be the duty of this committee to prepare a budget for the fiscal year and submit it to the Board for approval at its last scheduled meeting prior to the third General Membership meeting. The committee may submit amendments to the current budget at any regular meeting. The committee shall prepare and submit any other reports as directed by the Board.
- G. A Legislative Committee, composed of three members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to attend as many Virginia General Assembly meetings as possible and to be observant of new regulations. This committee will review, discuss and report to the Board of Directors and the General Membership, any legislature or regulations that will directly or indirectly effect the Association or it's members.
- H. A Membership and Website Committee, comprised of five members, shall be appointed within thirty days after the

third General Member-ship meeting. It shall be the duty of this committee to keep the website current and updated. The website shall be the source of Association meetings, dates, membership and advertisement applications, Association and public information and other Association information.

- I. A Nominating Committee shall be comprised of the five most immediate past presidents of the Association willing to serve in this capacity. The most immediate past president on the committee shall serve as the chairperson. It shall be the duty of this committee to nominate, at the third General Membership meeting, candidates for the offices to be filled. Before the election, additional nominations from the floor shall be permitted.
- J. A Plumbing, Mechanical and Fuel Gas Code Committee, composed of all Association members willing to participate, the chairperson shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to review, discuss and recommend necessary changes that apply to the Commercial and Residential Plumbing, Mechanical and Fuel Gas Codes.
- K. A School of Instruction Committee, comprised of the Executive Secretary, the chairperson shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to plan the program for the next Annual School of Instruction.
- L. A Time and Place Committee, comprised of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to review the date and location of all General Membership meetings and submit a report and recommendation to the General membership for approval at least twelve months prior to such meeting.

Section 2.. Duties of the Committee Chairperson

- A. To submit, in writing, all committee findings and recommendations to the Executive Secretary at least ten days prior to any meeting, except special meetings, unless specified on the agenda. If the chairperson or members of the committee is in attendance at the meeting, such written report shall not be required.
- B. To select all committee members not specifically provided for in other sections of these by-laws and report their names to the Executive Secretary within thirty days of their appointment.

Section 3. A Special Ad Hoc Committee shall be appointed for a specific purpose when necessary.

- A. The committee shall be under the authority and direction of the Board, unless specifically provided herein.
- B. The committee shall be comprised of at least five members.
- C. It shall be the duty of this committee to carry out a specified task and present it to the Board.
- D. The committee chairperson shall not be granted the voting privileges as a Standing Committee Chairperson.

ARTICLE VII — Voting

Section 1. Only Active, Charter and Lifetime Active members who are in good standing shall have the right to vote.

Section 2. All members shall have the right to make and second motions.

ARTICLE VIII — Meetings

Section 1. Three General Membership meetings shall be held each year. The first shall take place approximately fourteen days prior to or fourteen days after August 1. The second shall take place approximately thirty days prior to or thirty days after November 15. The third shall take place approximately fourteen days prior to or fourteen days after April 1, during the Annual School of Instruction.

Section 2. Four Board meetings shall be held each year at a time and location determined by the President. The first shall be held at least sixty days prior to the first General Membership meeting. The second shall be held at least sixty days prior to the second General Membership meeting. The third on the day of the second General Membership meeting and the fourth at least thirty days prior to the third General Membership meeting. A quorum shall consist of at least seven Board members. Action taken by less than seven Board members shall be null and void unless confirmed by a letter ballot from those members who were absent.

Section 3. Special Board meetings may be called by the President. Such meetings may also be called by the Board with the written request of at least seven members. The purpose of the meeting shall be stated in the call. The location of the meeting shall be determined by the President. At least ten days notice shall be given. A quorum shall consist of at least seven Board members. Action taken by less than seven Board members shall be null and void unless confirmed by a letter ballot from those members who were absent.

ARTICLE IX — Dues

Section 1. Annual Dues

- A. Active membership shall be thirty dollars per calendar year.
- B. Associate membership shall be thirty-five dollars per calendar year except those who have paid for five consecutive years shall only be required to pay thirty dollars per consecutive calendar year thereafter.
- C. Retired membership shall be ten dollars per calendar year.
- D. Charter and Life membership shall be absorbed by the Association.

Section 2. No members shall be in good standing whose dues are not paid by March 1 of each year and shall not be maintained on the membership roster if not paid by December 31.

Section 3. Dues may only be revised at General Membership meetings.

ARTICLE X — Amendments

Section 1. The Constitution and By-Laws may be amended by two-thirds vote at any General Membership meeting, provided that the proposed amendment has been submitted in writing at a previous General Membership meeting.

ARTICLE XI — Parliamentary Authority

Section 1. The current edition of Robert's Rules of Order Newly Revised shall be the Association's final authority on all questions of procedure and parliamentary law not covered by the Constitution and By-Laws nor any special rules of order the Association may adopt.

APPENDIX A — Districts of The Virginia Plumbing and Mechanical Inspectors Association

District I Shall be the area, including all cities and town that lie therein, created by the counties of Augusta, Arlington, Clark, Culpeper, Fairfax, Fauquier, Frederick, Greene, Highland, Loudoun, Madison, Orange, Page, Prince William, Rappahannock, Rockingham, Shenandoah, Spotsylvania, Stafford and Warren.

District II Shall be the area, including all cities and towns that lie therein, created by the counties of Alleghany, Amherst, Appomattox, Bath, Bedford, Bland, Botetourt, Buchanan, Campbell, Carroll, Craig, Dickenson, Floyd, Franklin, Giles, Grayson, Henry, Lee, Montgomery, Patrick, Pittsylvania, Pulaski, Roanoke, Rockbridge, Russell, Scott, Smyth, Tazewell, Washington, Wise and Wythe.

District III Shall be the area, including all cities and towns that lie therein, created by the counties of Albemarle, Amelia, Brunswick, Buckingham, Caroline, Charlotte, Chesterfield, Cumberland, Dinwiddie, Fluvanna, Goochland, Greensville, Halifax, Hanover, Henrico, King George, Louisa, Lunenburg, Mecklenburg, Nelson, Nottoway, Powhatan, Prince Edward, Prince George, Surry and Sussex.

District IV Shall be the area, including all cities and towns that lie therein, created by the counties of Accomack, Charles City, Essex, Gloucester, Isle of Wight, James City, King and Queen, King William, Lancaster, Mathews, Middlesex, New Kent, Northampton, Northumberland, Richmond, Southampton, Suffolk, Westmoreland and York.

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*The Mark of Quality
and Permanence*

The new HVAC equipment sizing code: *What you need to know*

For many years some professional HVAC businesses and code officials have believed that residential HVAC equipment selection was performed following guidance in ACCA Manual J. After all, that was the code requirement in the International Residential Code M1401.3, “size equipment per ACCA Manual J...” right? **WRONG!!**

Manual J is only used to calculate the heating and cooling loads. The current, nationally-recognized *Manual J8* guides HVAC system designers to use ACCA *Manual S, Residential Equipment Selection*, to select equipment that is the right size (see section 10-4).

Why use *Manual S*

There are three good reasons to use *Manual S*: it is the nationally-recognized standard, it prevents problems associated with equipment over and under sizing, and it’s a requirement in the 2009 International Residential Code (IRC).

Manual S, Residential Equipment Selection, is the ANSI-recognized, national standard providing clear instruction for interpreting and applying original equipment manufacturers’ (OEM) expanded performance data. *Manual S* instructs designers how to select equipment which meets the application requirements (heating, sensible cooling, and latent cooling) at the design conditions that were used for calculating the loads.

Manual S also sets equipment sizing limits, as summarized in **Table 1**. These sizing limits ensure equipment capacities will keep customers comfortable while preventing the problems associated with equipment over and under sizing which include: health issues associated with excessive humidity, callbacks from comfort complaints, higher building costs (larger equipment is more expensive, more materials are needed, and more labor is used to install it), larger energy consumption, and greater wear and tear on the equipment ¹.

Finally, *Manual S* is a code requirement. A modification adopted in the 2009 IRC clarifies an existing requirement for sizing HVAC equipment (change is underlined).

“Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies.”

Table 1: Manual S: Equipment Selection Sizing

MANUAL S EQUIPMENT SIZING LIMITATIONS		
Equipment	Sizing Limits	Reference
Furnaces	100% - 140% of total heating load	Section 2-2
Boilers	100% - 140% of total heating load	Section 2-2
Air conditioners	115% of total cooling load*	Section 3-4
Heat pumps	115% ¹ -125% ² of total cooling load*	Section 4-4
Supplemental heat (heat pumps)		
• Electric	Based on equipment balance point	Section 4-8
• Dual fuel	100% - 140% of total heating load	Section 6-8
Emergency heat (heat pumps)	Based on local codes	Section 4-9
MANUAL S EQUIPMENT SIZING LIMITATIONS		
Mode of Operation	Requirement	Reference
• Heating	Temperature rise requirement	Section 2-6
• Cooling	Airflow associated with the selected equipment’s capacity	Section 2-2
¹ Heat pumps in a cooling dominant climate are allowed to be 115% of the cooling load. ² Heat pumps in a heating dominant climate are allowed to be 125% of the cooling load. * The size of the cooling equipment must be based on the same temperature and humidity conditions that were used to calculate the Manual J loads.		

How to Apply *Manual S* Heating Example (Part I)

Manual J heating load calculations produce values, in Btu/h, for selecting the heating equipment. This heating example will select a furnace for a home that has a heating requirement of 56,000 Btu/h. The furnace needed must have the capacity to deliver 56,000 Btu/h in order to maintain 70°F in the home when the outdoor temperature dips to the outdoor design temperature (refer to Section 3-6 and Table 1A of *Manual J8*).

Based on the home’s load and the sizing limitations from **Table 1**, the furnace must produce more than 56,000 Btu/h, but less than 78,400 Btu/h. The home’s heating capacity requirement is 56,000 Btu/h and the furnace can have a capacity no larger than 140% of the heating load (140% x 56,000 = 78,400 Btu/h).

Using the manufacturer’s product data in **Table 2**, the XYZ model FR 80-036 or FR80-024 has the output capacity of 64,000 Btu/h,

which is enough to meet the requirement. The FR 60-036 has too little capacity (48,000 Btu/h, 86% of the load), and the FR 125-036 has too much output capacity (100,000 Btu/h, 178% of the load), selecting either the FR 60-036 or the 125-036 would cause comfort complaints, and in the case of the 125-036, would lead to a more expensive system.

If you are installing this furnace at elevations above 2,500 feet there are additional requirements that must be considered, see *Manual S* for more information.

Cooling Example

Load calculations produce cooling capacity requirements for selecting the HVAC equipment. For this cooling example, we will select an air conditioner for a home with the following *Manual J* cooling loads:

Sensible Cooling	22,000 Btu/h
Latent Cooling	8,000 Btu/h
Total Cooling	30,000 Btu/h

Table 2: XYZ Furnace Company Performance Data

Unit Size	General Data — XYZ FURNACE COMPANY — Efficiency					
	FR60-024	FR60-036	FR80-024	FR80-036	FR125-036	FR125-048
Output capacity					OUTPUT CAPACITY	INPUT CAPACITY
• Upflow	48,000	48,000	64,000	64,000	100,000	100,000
• Horizontal	48,000	48,000	64,000	64,000	100,000	100,000
Input Btu/h	60,000	60,000	80,000	80,000	125,000	125,000
Temp rise range	30-60	15-45	45-75	35-65	40-70	30-60

An Introduction to ACCA Manual S

By Wes Davis, Manager of Technical Services, ACCA

Sensible and Latent Loads

When considering the cooling load, there are two parts - the sensible and latent load.

The sensible load is the heat that is measured by a thermometer or a thermostat. It is heat that you consciously feel. It is the heat you associate with a desert or a dry heat.

Latent load is the heat associated with airborne moisture (produces relative humidity as measured by a hygrometer or humidistat). During the cooling process, moisture is extracted from indoor air.

High latent heat or high relative humidity feels humid, clammy, or steamy. An example is a home that shows a cool temperature on the thermostat but, because of high humidity, still feels uncomfortable. When you walk into this home your initial impression is that it is cool, but then as your body adjusts to the room temperature, you begin to feel sticky, clammy, and uncomfortable. You may even feel warm again. This is why two homes that have the same reading on a thermometer or thermostat can feel very different.

Manual S has four steps for selecting cooling equipment:

- ◆ Set the design parameters
- ◆ Estimate the target airflow
- ◆ Search for equipment candidates
- ◆ Evaluate and select the acceptable candidates (more than one candidate may be offered to the customer)

Step 1. Design Parameters

There are many design parameters to consider. Some of these parameters were decided during the system design procedure: Equipment type, location, fuel, etc. However, the design parameters considered now come from the load calculations, Manual S, and the OEM performance data.

Two of the design parameters listed in **Table 3** relate to the design conditions used to calculate the cooling load. Unlike heating equipment, the cooling equipment capacity

varies with the outdoor conditions. The outdoor and indoor design conditions that were used to calculate the cooling load must be used when selecting the equipment. In this case, the indoor conditions were a 63°F wet bulb temperature (this is equivalent to 75°F dry bulb, 50%Rh), and an outdoor design temperature of 95°F.

Another design parameter is the sizing limit *Manual S* sets for air conditioners. Based on the home's load and sizing limitations from **Table 1**, an air conditioner must meet the total cooling load requirement (30,000 Btu/h), but can have no more than 34,500 Btu/h (115% x 30,000 = 34,500). Therefore, the air conditioner we need must produce more than 30,000 Btu/h, but less than 34,500 Btu/h.

Step 2. Estimate the Target Airflow

Target airflow for the cooling system must be estimated. *Manual S* provides instructions² to use the home's sensible heat ratio (SHR) to calculate the target airflow. This target airflow narrows the search for equipment candidates. The home's SHR also indicates whether the air conditioner will need exceptional moisture removal (humid climates) or extra temperature control (hot and dry climates). This airflow rate is only a target; the actual airflow will be based on the OEM expanded performance data. Based on the SHR of the home, our target airflow is 952 CFM.

Determining Target Airflow

Target airflow is based on the home's SHR. The SHR is the ratio of the sensible load to the total load (SHR = Sensible Load / Total Load). This home's SHR is 73% (SHR = 22,000 / 30,000 = 73.3%). The recommended temperature drop across the cooling coil, based on this SHR, is 21°F. The formula to determine the target CFM from this temperature difference is $CFM = SBtu/h^3 \div (\Delta T \times 1.1 \times ACF)$. The target CFM for this air conditioner is 952 CFM.

$$CFM = 22,000 \div (21^\circ F \times 1.1 \times 1.0) = 952CFM$$

Where:

ΔT = Temperature difference in the air between the inlet and outlet of the furnace or cooling coil

SBtu/h = Home's sensible capacity requirement for the cooling system

CFM = Cubic feet per minute; volume of air moved through the furnace by the blower assembly

1.1 = A physical air constant (derived from the laws of physics)

ACF = Altitude Correction Factor; 1.0 applies to sea level.

The cooling design parameters for the sample house are shown in **Table 3**.

Step 3. Search for Equipment Candidates

The HVAC designer should always select a MATCHED system, a system that is rated by AHRI or certified by the OEM to deliver the specified capacity under the design conditions. Diligent HVAC system designers should examine different product lines and equipment styles when searching for equipment candidates. In addition to package and split systems, there are other low capacity heating and cooling systems which will serve small loads (e.g., ductless mini-split systems, radiant panels, and packaged terminal air conditioners).

OEM Performance Data vs. AHRI Data

AHRI produces the standards for rating various heating and cooling equipment. Manufacturers are responsible for testing and certifying the performance of their heating and cooling equipment to these standards. After equipment is tested in accordance with the appropriate standard, the OEM data is published in AHRI product directories (www.ahrinet.org). However, the certification and efficiency data that appears in the product directories should not be used to select the heating and cooling equipment. The test conditions AHRI uses simulate a very small geographic area in the US which restricts the use of this data. Hence, OEM expanded performance data should be used to select the properly sized equipment, and AHRI directories should only be used to compare relative equipment efficiency ratings.

Different OEMs will present their performance data in various formats. However,

(continued)

Table 3: Cooling Design Parameters

Indoor conditions	Temperature	75°F
	Relative humidity	50%Rh
	Indoor wetbulb (at 75°F and 50% Rh)	63°F
Outdoor conditions		95°F
	Total cooling capacity requirement	30,000 Btu/h
	Sensible cooling capacity requirement	22,000 Btu/h
	Latent cooling capacity requirement	8,000 Btu/h
	Estimated (target) airflow	952 CFM

each format will generally include the same basic information: required airflow through the coil, entering air wet-bulb temperature⁴, outdoor temperature, and the equipment's cooling capacities (usually total and sensible capacities). Based on a cooling requirement of 30,000 Btu/h, is a 2.5 ton system the proper unit to select?

The 2.5 ton system (**Table 4**) does not have enough total cooling capacity at a 95°F outdoor temperature and entering wet bulb temperature of 63°F. Therefore, choosing this air conditioner would fail to keep the customer comfortable during hot summer afternoons. In a home with a cooling load of 30,000 Btu/h, a 2.5 ton unit seems like the natural choice. However, after examining the OEM expanded performance data (with reference to the design parameters), it is apparent that this 2.5 ton system would be a poor choice.

Given the stated design parameters, the 3.0 ton system (**Table 5**) is actually a better fit. It has enough total cooling capacity (31,510 Btu/h) without exceeding the 115% limit (34,500 Btu/h). The system's sensible cooling capacity (23,000 Btu/h) also meets the sensible cooling load (22,000 Btu/h). The latent capacity (8,510 Btu/h) of this system (total – sensible = latent) is sufficient to provide proper dehumidification for the example home (latent load 8,000 Btu/h).

The other design element gleaned from **Table 5** is the volume of air, in cubic feet per minute⁵ (CFM) that must flow over the indoor air conditioner coil⁶ to achieve the required cooling capacities. The airflow for this air conditioner, 1,050 CFM, is different than the target airflow, 952 CFM. Is this difference a problem? No. The goal is to find an air conditioner with the right capacity. The process to determine target airflow provided insight to the sensible and latent cooling capacity relationships that needed to be considered. 1,050 CFM will be subsequently used in the *Manual D* (Residential Duct Systems) duct sizing calculations⁷.

Manufacturers of furnaces, fan coils, and other equipment with blower assemblies create blower performance charts for the different models they produce. These charts provide the data needed to determine how much airflow a blower assembly produces at a given fan speed when pushing air against a certain amount of external static pressure (ESP). Based on the fan speed and the amount of resistance that is external to the unit⁸, the chart provides the volume of air the blower assembly can move⁹. The XYZ furnace manu-

Table 4: XYZ Model AC030 Performance Data											
XYZ AIR CONDITIONERS – DETAILED COOLING CAPACITIES Model AC-30 with coil AC-030 (2.5 ton)											
<i>Evaporator air</i>		<i>Condenser entering air temp – DB (F)</i>									
CFM	EWB (F)	75		85		95		105		115	
		Capacity		Capacity		Capacity		Capacity		Capacity	
		Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
875	72	34,610	18,190	33,100	17,620	29,830	16,390	28,040	15,730	26,500	15,170
	67	31,400	22,240	30,000	21,650	28,520	21,040	26,960	20,390	25,300	19,720
	63	28,620	26,290	27,350	25,680	26,020	25,040	24,640	24,340	23,340	23,340
	57	27,840	27,840	26,820	26,820	25,740	25,740	24,580	24,580	23,340	23,340
1,000	72	35,250	19,090	33,680	18,500	32,030	17,890	30,280	15,730	28,430	16,590
	67	31,990	23,660	30,530	23,060	29,000	22,440	27,380	21,790	25,670	21,110
	63	29,300	28,220	28,020	26,560	26,770	26,770	25,540	25,540	24,220	24,220
	57	29,020	29,020	27,930	27,930	26,780	26,780	25,540	25,540	24,230	24,230
1,125	72	35,720	19,920	34,110	19,330	32,410	18,710	30,610	18,070	28,700	17,390
	67	32,430	25,010	30,930	24,410	29,360	23,780	27,700	23,120	25,960	22,420
	63	29,970	29,970	28,850	28,850	27,630	27,630	26,340	26,340	24,950	24,950
	57	30,000	30,000	28,850	28,850	27,640	27,640	26,340	26,340	24,950	24,950

Table 5: XYZ Model AC036 Performance Data											
XYZ AIR CONDITIONERS – DETAILED COOLING CAPACITIES Model AC-36 with coil AC-030 (3.0 ton)											
<i>Evaporator air</i>		<i>Condenser entering air temp – DB (F)</i>									
CFM	EWB (F)	75		85		95		105		115	
		Capacity		Capacity		Capacity		Capacity		Capacity	
		Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
1,050	72	41,680	21,820	39,850	21,110	37,920	20,380	35,900	19,620	33,700	18,810
	67	37,930	24,680	36,260	23,950	34,460	21,200	32,570	24,420	30,540	23,590
	63	34,660	29,520	33,120	28,780	31,510	23,000	29,840	29,160	28,150	28,150
	57	33,650	31,650	32,400	30,400	31,090	27,090	29,680	29,680	28,160	28,160
1,200	72	42,390	20,820	40,490	20,110	38,490	21,360	36,390	29,590	34,130	19,770
	67	38,650	26,290	36,870	25,560	35,000	26,790	33,949	26,010	30,950	25,170
	63	35,450	31,740	33,890	30,950	32,300	32,080	30,790	30,790	29,180	29,180
	57	35,020	33,020	33,690	31,690	32,290	32,290	30,800	30,800	29,190	29,190
1,350	72	42,910	21,750	40,960	21,030	38,890	22,280	36,750	21,510	34,420	20,680
	67	39,150	27,820	37,320	27,080	35,410	28,320	33,410	27,530	31,270	26,680
	63	36,200	33,760	34,750	32,750	33,270	33,270	31,700	31,700	30,010	30,010
	57	36,160	34,160	34,760	32,760	33,270	33,270	31,710	31,710	30,010	30,010

Table 6: Fan Performance Data										
XYZ COMPANY FR 80 FURNACE BLOWER DATA — Air Delivery — CFM (with filter)										
Unit size	Return air entry	Fan speed	External static pressure (inches water column)							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
FR80-024	1 side	High	1100	1065	1005	945	900	805	730	610
	or	Med-low	890	865	810	765	705	620	540	475
	bottom	Low	745	710	670	625	565	505	425	360
FR80-036	1 side	High	1745	1705	1660	1615	1570	1500	1425	1355
	or	Med-high	1500	1470	1445	1410	1375	1330	1280	1210
	bottom	Med-low	1340	1315	1300	1270	1235	1220	1140	1095
		Low	1195	1175	1165	1130	1100	1070	1030	975
FR80-048	1 side	High	2250	2175	2090	2020	1930	1855	1760	1670
	or	Med-high	2050	1950	1900	1840	1790	1710	1640	1545
	bottom	Med-low	1725	1690	1660	1630	1575	1520	1460	1370
		Low	1490	1480	1460	1440	1380	1340	1295	1230

Airflow shown is for bottom only return-air supply with factory supplied 1-in. washable filter (0.05 IWC).

facturer produced a blower performance chart (Table 6) for the FR 80-036. The furnace delivers 1,050 CFM on low fan speed with an ESP of 0.65 IWC. (1,070 CFM at .60 IWC – interpolated to 1,050 CFM at 0.65).

Using the known specifications and experience this fan should have enough capacity to accommodate the air conditioner coil, a good filter, and the resistance from a “typical” duct system. Given the fan performance of 1,050 CFM @ 0.65 IWC External Static Pressure:

Add 0.19 IWC for the air conditioner coil (per XYZ Co. specs)

Add 0.21 IWC for the pleated filter (at 1,200 CFM per filter specs)

Add 0.25 IWC for the duct system (approximate value based on experience)

Total 0.65 External static pressure

Step 4. Evaluate and Select the Acceptable Candidates

These two cooling equipment candidates were evaluated throughout the example. However, an HVAC designer would use this step to evaluate the HVAC system that best met their customer’s different energy efficiency, IAQ, price points, or other needs. The evaluation of the candidates may look like Table 7.

How to Apply Manual S:

Heating Example (Part II)

The cooling system has been selected and the proposed design airflow is 1,050 CFM, this airflow must also meet the furnace’s requirements before it can be used for the *Manual D* duct design¹⁰. The XYZ model FR80-036 furnace has an OEM design temperature rise range of 35°F - 65°F (Table 2). The air temperature rise through the furnace depends on the airflow through the heat exchanger. If 1,050 CFM causes the temperature rise to fall outside the desired range then: the equipment may cycle off on safety limits, the furnace could suffer damage, or other unsafe conditions may be created.

Problems Associated With Incorrect Airflow

Slow Air (too much temperature rise): Slow moving air may allow the heat exchanger to become too hot, which may damage (warp or crack) the metal heat exchanger. Fast Air (too little temperature rise): Excessive airflow rate; air moving too quickly may cause condensation in the metal heat exchanger (this produces an acid that can harm or penetrate the heat exchanger).

Table 7: Cooling Equipment Comparison

	Criteria	Equipment Candidates	
		AC-30 (w/ Coil 030 and Furnace FR 80-36)	AC-36 (w/Coil 036 and Furnace FR 80-036)
Total cooling capacity	30,000 Bth/h	26,770 Bth/h	31,510 Bth/h
Sensible cooling capacity	22,000 Bth/h	26,770 Bth/h	23,000 Bth/h
Latent cooling capacity	8,000 Bth/h	0 Bth/h	8,510 Bth/h
Estimated (target) airflow	952	1,000 CFM	1,050 CFM
At the following design conditions: Indoor: Wet bulb temperature 63°F (Temperature 75° F, Rh 50%) Outdoor temperature: 95°F			

Fortunately, an airflow of 1,050 CFM equates to an acceptable furnace temperature rise of about 55°F:

$$\Delta T = \frac{Btu/h^{11}}{CFM \times 1.1 \times ACF}$$

$$55.4^{\circ}F = \frac{64,000}{(1,050 \times 1.1 \times 1.0)}$$

Where:

ΔT = Temperature difference in the air between the inlet and outlet of the furnace or cooling coil

Btu/h = Thermal output capacity of the furnace

CFM = Cubic feet per minute; volume of air moved through the furnace by the blower assembly

1.1 = Conversion factor for pounds of air into cubic feet of air

ACF = Altitude Correction Factor; 1.0 applies to sea level.

Conclusion

Equipment selection is a vital step in the HVAC system design process. As “first preventers”, code officials carry the responsibility to enforce the code, and to prevent harm to future and current occupants. Proper HVAC equipment selection is one of the many ways that code officials protect occupant health and safety.

This simple example was quickly reviewed. You will find that *Manual S* has much more instruction, examples, and useful information. ■

End Notes

- Over sized equipment satisfies the control’s set point faster, this leads to more starts and stops. Equipment start-up creates extreme stress on mechanical components.
- Manual S* Section 3-10, page 3-4, Step 2 provides detailed instructions to determine the target airflow used in the equipment selection process.
- In this case we use the homes sensible cooling requirement in the formula instead of the total cooling capacity.
- This measurement considers the air’s temperature and moisture content.
- Air volume is measured in Cubic Feet per Minute (CFM). CFM is the amount of air in cubes (one foot by one foot by one foot) which move through a duct in one minute.
- The XYZ model AC-36 must have 1,050 CFM over indoor air conditioner coil in order to deliver the specified cooling capacity, if the airflow value changes the equipment capacity changes as well.
- Also a code requirement - IRC Section 1601.1.
- External static pressure (ESP) is the pressure produced by ducts and accessories external to the rated blower assembly. The OEM provided pressure chart will define accessories that were included (e.g. a filter) and other pertinent information. Ensure you understand all of the items which affect the blower assembly’s performance.
- For more information see ACCA *Manual D*, section 3.
- 1,050 CFM at 0.65 IWC is information needed to determine the friction rate for duct sizing.
- In this case we use the furnace’s actual capacity in the formula instead of the *Manual J* heat loss. The actual furnace output capacity of 64,000 Btu/h is used, not the 56,000 Btu/h design capacity from the load calculation.

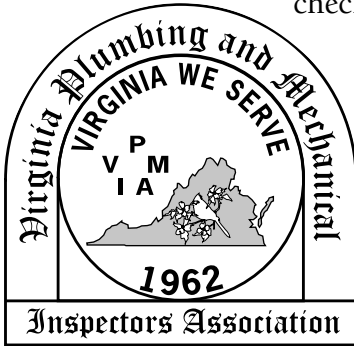
About the Author:

Wes Davis is the Manager of Technical Services for the Air Conditioning Contractors of America (ACCA). He develops HVAC-oriented technical documents, delivers educational presentations, provides technical support to ACCA members, and serves on several HVAC-industry technical committees. He wrote Bob’s House, coordinated the development of the Quality Maintenance Standard and the Quality Installation Verification Protocols. Davis was a licensed HVAC contractor who holds several NATE certifications.

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Gas Piping

and the 2006 IFGC

by

Bob Guenther

Director of Mechanical Programs, ICC-PMG

As a result of the changes that occurred to the *2009 International Fuel Gas Code*, there have been several inquiries from ICC members about the intent of Section 404.1. This article is intended to help clarify and answer some of the common questions that are being asked.

Section 404.1 in the *2006 IFGC*, reads as follows:

“Piping shall not be installed in or through a circulating air duct, clothes chute, chimney or gas vent, ventilating duct, dumbwaiter or elevator shaft. Piping installed downstream of the point of delivery shall not extend through any townhouse unit other than the unit served by such piping.”

The *2009 IFGC* has been changed to read:

“Piping shall not be installed in or through a ducted supply, return or exhaust or a clothes chute, chimney or gas vent, dumbwaiter or elevator shaft. Piping installed down of the point of delivery shall not extend through any townhouse unit other than the unit served by such piping”.

To fully understand the intent of Section 404.1 in the IFGC, it might be a good idea to visit the definitions in Chapter 2 of the International Mechanical Code. Chapter 2 in the IMC defines a duct as a tube or conduit utilized for conveying air. Note that the *2009 IFGC* states that gas piping shall not be installed through a ducted supply, return or exhaust. It does not mention or prohibit gas piping from being installed in or through a plenum. A plenum is defined in the IMC as an enclosed portion of the building structure, other than an occupied space being conditioned, that is designed to allow movement and thereby serve as a part of an air distribution system.

The intent of Section 404.1 is to not allow gas piping to be installed in or through a duct. This is

shown in Figure 1. I think that most inspectors and contractors understood from the 2006 and previous codes that this could not be done and was a violation

Figure 1
Section 404.1 Prohibited Locations

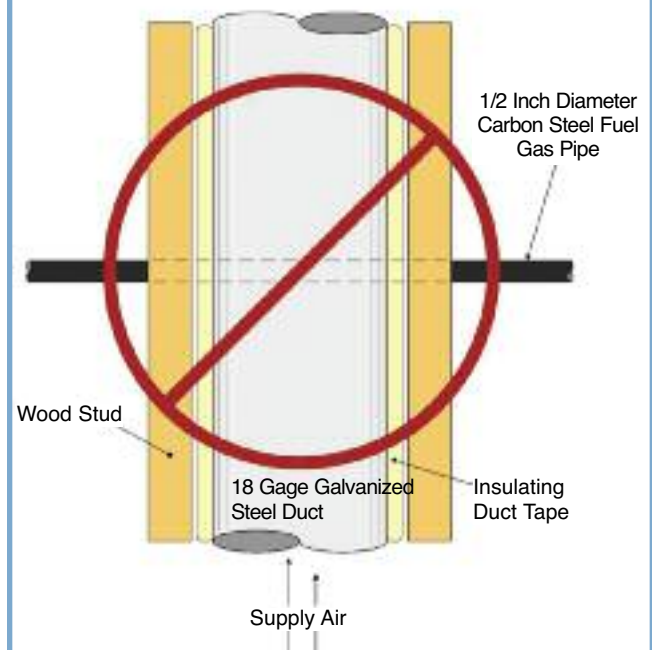
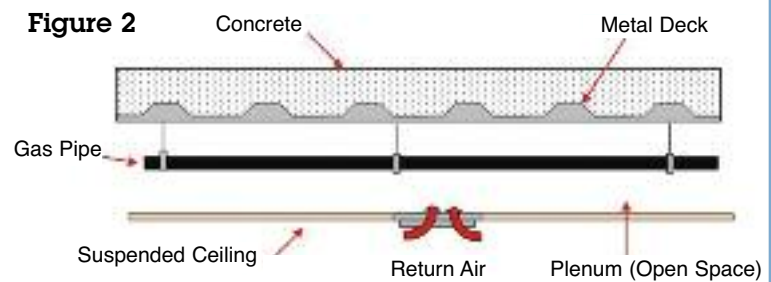


Figure 2



of the code. The confusion usually occurs when gas piping is installed in a return air plenum as shown in Figure 2. This usually occurs in multistory office buildings where the space between a lowered T-bar

ceiling and the floor or roof is used as a return air plenum.

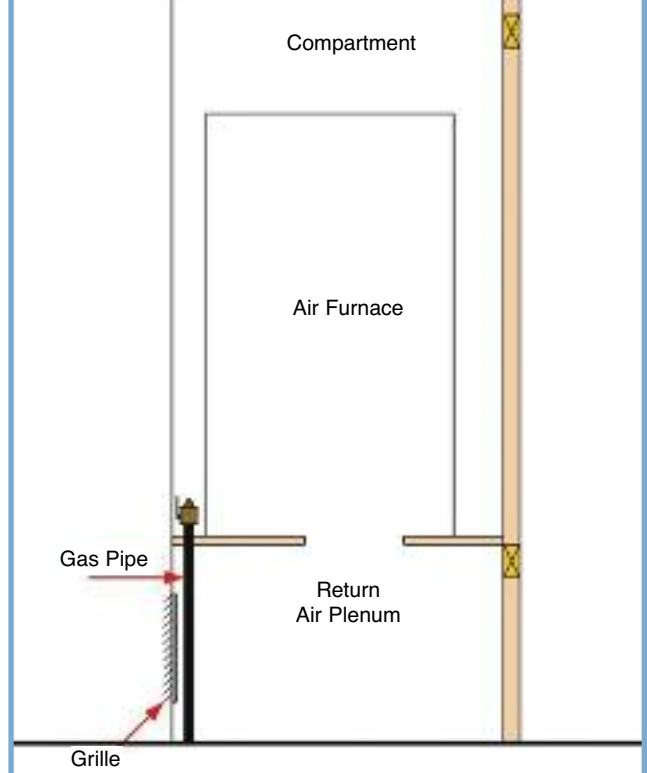
Another area of clarification in Section 404.1 is shown in Figure 3. This type of installation is usually found in residential construction but it can also be found in commercial buildings. In this type of installation, an upflow forced air furnace is installed in a closet on a raised floor and the space between the furnace floor and the building floor is used as a return air plenum. In this type of an installation, gas piping is allowed in the return air plenum.

The last part of Section 404.1 was added to the 2006 IFGC and references piping in townhouses. The intention of this requirement is to not allow gas piping from the meter to extend through a townhouse not served by the gas piping from that particular meter. Figure 4 shows what the code is prohibiting. When this occurs, the gas piping is usually located in an above grade under floor location as shown. It has been interpreted that the same restriction would apply if the gas piping was installed on the roof of a townhouse building.

It should be noted that this requirement does not include apartments or condominiums. It is only intended for townhouses.

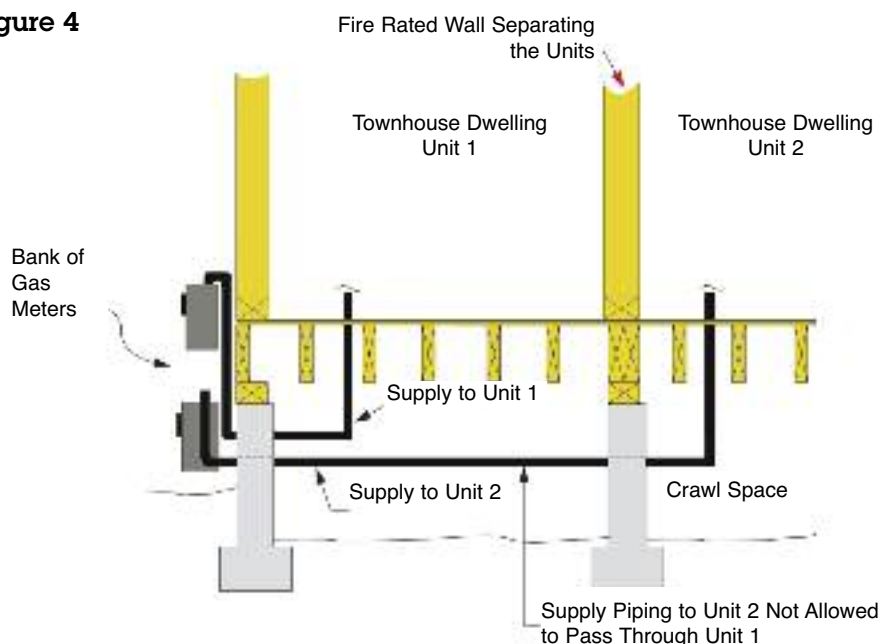
Hopefully this article will clear up any questions that you may have had about Section 404.1 in the IFGC. ■

Figure 3



For more information on this and other inquiries, visit www.iccsafe.org/pmg or email ICC at pmgresourcecenter@iccsafe.org.

Figure 4



About the Author:

Bob Guenther, Senior Technical Staff for the International Code Council, provides technical assistance to its members on the Mechanical, Fuel Gas and Plumbing Codes. In addition, Bob develops and reviews technical publications and presents mechanical and fuel gas code seminars throughout the country. Prior to ICC, Bob was the Mechanical Official for Long Beach, California where he worked for 24 years and was a Mechanical Inspector for the City of Los Angeles for five years. Bob has taught many seminars throughout the country including the mechanical code in community colleges in Southern California. Bob has served on the IMC and UMC code change committees and was on the committee that formed the original IMC.

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C: 2009 INTERNATIONAL MECHANICAL CODE[®]

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C

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Key changes include:

- Bonding requirements are added to reduce the chance of damage to the piping from lightning-induced electrical energy.
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- Vents that penetrate an exterior wall must be permanently sealed around the penetration to prevent the entry of combustion products into a building.

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GOAL # 1 Enhance and increase communications of VPMIA with the public (Communications)

Initiative action:

- Actively promote a positive image of code enforcement's role in the community.
- Advertisements in trade, industry, state DHCD, and community publications.
- Commitment to code development to achieve the superior level of health, safety, and welfare for our citizens.

GOAL # 2 Increase and expand education (Training – Communications)

Initiative action:

- Encourage increased participation from all interested parties who interact with any and all aspects of code enforcement.
- Increase awareness of the educational benefits of the association.
- Promote credentialing programs provided by the state DHCD.

GOAL # 3 Uphold the highest levels of professionalism (Leadership – Professionalism)

Initiative action:

- Instill and promote leadership values.
- Always display integrity.
- Adherence to code of ethics.

- Share knowledge at all levels.
- Maintain and promote certifications.
- Respect others.

GOAL # 4 Promote relationships with industry and related professional organizations (Cooperation)

Initiative action:

- Participate in the code development process.
- Encourage cooperative working relationships with construction-industry professionals.
- Become involved as active or associate members to other professional organizations such as VBCOA, ICC, VCCCA, IAEL, and PMPV.
- Solicit speakers and provide speakers for these organizations to enhance communication.
- Continue to actively participate in DHCD towards uniform application and development of the model building codes and standards.

GOAL # 5 Broaden and expand VPMIA Membership (Membership)

Initiative action:

- Develop information package of the organization benefits.
- Provide more member services.
- Develop a more wide spread advertisement program for membership, including associate members.

GOAL # 6 Continue leadership and participation in code development process (Leadership – Code Development)

Initiative action:

- Enhance and develop strategies for participation in International Code Council Code developmental process.
- Encourage participation on state and national committees.
- Provide financial support towards member participation in these activities.

GOAL # 7 Promote the adoption of the International Code Council family of model codes (Communications – Training)

Initiative action:

- Provide analysis and impact of benefits for industry, where necessary.
- Provide training for code enforcement officials and industry.
- Interact with DHCD to provide uniform enforcement of model codes.

GOAL # 8 Ensuring financial viability of VPMIA

Initiative action:

- Align financial resources to organizational outcomes.
- Achieve goal objectives.
- Operate within budgeted plan.

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2009 Program Schedule

Wednesday, April 1

7:00 – 8:30 a.m.	REGISTRATION (Ladies Auxiliary)	Lobby
11:00 – Noon.	Helicopter Tour of Winchester*	Meet in Lobby
12:00 – 1:00 p.m.	Lunch with the Men	Banquet Room
Afternoon	Open	
5:00 – 6:00 p.m.	PRESIDENT'S WELCOME	Banquet Room
6:00 – 7:30 p.m.	Bar B Q Dinner	Banquet Room

Thursday, April 2

7:30 – 9:00 a.m.	REGISTRATION	Lobby
11:30 – 1:30 p.m.	LUNCHEON and BUSINESS MEETING	Meet in Lobby Local Restaurant
1:30 – 4:30 p.m.	SHOPPING	
6:00 – 10:00 p.m.	BANQUET, AWARDS, INSTALLATION OF OFFICERS	Banquet Room

Friday, April 3

8:00 – 9:00 a.m.	BREAKFAST BUFFET	TBD
9:00 – 11:30 a.m.	BINGO	Hospitality Room

The VPMIA Ladies Auxiliary is an ancillary group to VPMIA. Its purpose is to act as an assistant and a support to the Association's endeavors to provide code development leadership and continuous training that results in uniform application of the codes.

This group is also about having fun along the way.

Join us in Winchester. We will conduct our annual luncheon/business meeting and get to know each other better during some scheduled events: exploring items of local interest and a friendly game of Bingo. These informal activities are scheduled to take place while the VPMIA meetings and School of Instruction are in session—leaving time to socialize with the full VPMIA group during lunches and dinners.

* "April Fools"

A small group...

of Virginia plumbing inspectors met in 1959 following a seminar at VPIA in Blacksburg. The group discussed the possibility of forming a statewide association for the purpose of dissemination of information touching on new methods, materials and testing procedures used in the plumbing and heating profession.

Following the three-day seminar the inspectors returned to their respective jobs. Being dedicated to their profession, these men contacted individual members of the Virginia State Master Plumbers Association meeting. Cards were mailed asking the inspectors if they were interested in forming such an association.

The first meeting of the group, which would be called The Virginia Plumbing Inspectors Association, took place April 14, 1962 at the Hotel John Marshall in Richmond. Attending were fourteen plumbing inspectors and three associate members. (These names are published as Charter Members.) The first order of business for the group was to name a temporary chairman, Mr. Mannion, followed by nomination and election of officers.

Officers elected were: President, Charles E. Mannion, Richmond; Vice President, Paul C. King, County of Fairfax; Secretary, John B. Mason, Richmond; Treasurer, James B. Jones, Jr., Martinsville; and Sgt. At Arms, E. R. Carr, Winchester. Board of Directors named included: U.E. Allen, Jr., Portsmouth; Frank B. Bosman, County of Arlington; and Gordon Dameron, Danville.

A committee consisting of inspectors King, Chairman, Carr and Cooper was appointed and instructed to draw up the proposed by-laws for the association. A general discussion followed covering the aims and purposes of the organization. A date was set for the next meeting and the group adjourned its meeting to join the Master Plumbers Association, which was in session at this time.

By-Laws Adopted

VPIA met November 3, 1962 at 1014 East Broad Street, Richmond. The By-Laws Committee presented its report, which was duly adopted. Article II of those by-laws set forth the purpose of the organization:

- A. Cooperate in the formulation of Virginia Plumbing Code Standards.
- B. Promote uniform understanding and application of all city, town and county plumbing codes.

- C. Secure and promote uniform administrative ordinances and inspection methods.
- D. Promote closer cooperation between inspectors, inspection departments, health departments, plumbing contractors and the public.
- E. Promote and improve the standards of the profession of plumbing inspectors.
- F. To institute and maintain a central organization to properly test new materials and methods to be used in this Commonwealth.

School of Instruction

The Association embarked on a program when Paul C. King served as proxy which has proven to be well accepted by those men serving in all phases of the plumbing industry. Known as "School of Instruction and Conference," the program owes its success to D. Paul Jack, Hampton. Through his efforts, almost single-handedly, Mr. Jack managed to obtain speakers from Texas, across the south, and as far west as Wisconsin. The first annual School of Instruction and Conference was held in Hampton on April 17 and 18, 1964 and was a huge success. Each succeeding year has found the meeting generating more interest in the plumbing profession.

Inspectors have found that the annual school and conference has given us the opportunity to carry out some of the aims of VPIA, namely: "the dissemination of new methods and materials" on a state-wide basis. Our speakers are not only considered experts in their fields but they also present facts which help to generate enthusiasm among those association members interested in promoting the plumbing profession.

Executive Secretary

In 1969 the Board of Directors appointed an Executive Secretary with the responsibilities to direct the school for Qualified Plumbing Inspectors and to publish a newsletter for the purpose of keeping inspectors abreast with the workings of the association and other related items of interest that inspectors in Virginia and the southeastern states should be concerned with. Thus far the newsletter has accomplished its purpose and its present circulation includes eighteen states.

We are proud to be members of VPIA. The knowledge we have gained during the past years has made it possible for us to be cognizant that the plumbing profession is

ORIGINAL HISTORY BY PAUL C. KING.

indeed one of the leading 'trades' in the building industry.

History Up-Date

In 1986, the Board of Directors instructed the committee on by-laws to up-date and revise the by-laws to meet and comply with the present day regulations. President John W. Thurston appointed Edward J. Baldwin, Jr., Chairman and D. Paul Jack as part of a two-member committee to study and propose the needed changes.

On April 1988, at the Twenty-Fifth Annual School of Instruction as the yearly conference had now come to be known, after two years of study and consideration by the committee and board of directors, the amended by-laws were approved and adopted by the voting membership of the Virginia Plumbing Inspectors Association.

On July 21, 1990, at the Association's summer meeting, the voting membership of the Virginia Plumbing Inspectors Association voted unanimously to change the name of the Association to the Virginia Plumbing and Mechanical Inspectors Association. The change was felt necessary because of the number of jurisdictions within the Commonwealth of Virginia having separate mechanical inspection divisions whose inspectors were seeking educational opportunity. It was the feeling of the membership that this Association could provide that opportunity of educational instruction.

In-as-much as there were some other concerns regarding the by-laws, the Committee on By-Laws, consisting of Edward J. Baldwin, Jr., Chairman, Kenneth R. Snyder, Sr. and D. Paul Jack, Vice Chairmen, William F. Hines, Dennis W. McNaughton, Thomas C. Roberts and Paul M. Adams, Executive Secretary, was directed by President Robert M. Broome to study and submit amendments to the by-laws reflecting the name change and other necessary changes needed to include the mechanical personnel. Through the course of the study, an executive board, four regional directors positions and specific duties of the presidential appointed chairpersons were incorporated. The amended by-laws were approved by the committee on September 6, 1990 by the board of directors on October 6, 1990 and by the general membership in December 1, 1990.

After a period of working under the

executive board, which consisted of the elected officers and the four regional directors, the board of directors instructed the Committee on By-Laws to once again review and recommend any needed changes deemed necessary. This resulted in more changes being proposed, the most significant being a change in the fundamental membership and voting rules. The system used since the beginning of the Association was that of jurisdictional membership with a limit of one vote per jurisdiction. The proposed amendments included a change to individual membership with one vote per active member (associate members must remain without a vote in order to protect chapter membership in building officials and code administrations international).

The progress of these amendments, of the proposals and counter proposals, spanned the terms of three presidents and three by-laws committees. The first action of the general membership, which resulted in a change, was made on March 26, 1994 at the conclusion of the Thirty-First Annual School of Instruction. That change eliminated the executive board and dictated meeting schedules. Action was taken on June 25, 1994 which clarified the responsibilities of various officers and both board and presidential appointments. The action which resulted in the current by-laws was taken at the winter meeting on December 3, 1994.

During the course of the by-laws change process, another transition for our Association was under way. In the spirit of promoting closer cooperation between inspectors, inspection departments and plumbing contractors, the membership decided to hold the Twenty-Eighth Annual School of Instruction in Norfolk. The dates were April 11, 12, and 13, 1991 and this coincided with the annual meeting of The Virginia Cross Connection Control Association, The Virginia Association of Plumbing, Heating and Cooling Contractors, and the Richmond Chapter of The American Society of Plumbing Engineers. Although the various associations involved held their own separate educational and business meetings, the trade exposition, where new products and materials could be analyzed and evaluated in a "hands-on" manner, was a central focal point. This cooperation has proven to be a successful format and continues with most

of the same organizations being involved.

The Virginia Plumbing and Mechanical Inspectors Association was founded for the purpose of education and communication. As further evidence of this commitment, the annual summer meeting was expanded, beginning in 1994, to include a day of technical training. With the consolidation of BOCA, ICBO and SBCCI into the International Code Council and subsequent adoption of the International Codes in Virginia, the potential for growth has expanded and we have taken up the challenge. We continue to be a leader in the support of education and code development. In 2002 we received the BOCA Chapter of the Year Award for excelling in educational opportunities, membership and participation in BOCA activities. In 2004, we received the Directors Award from the Virginia Department of Housing and Community Development in recognition of our members' participation in the development and delivery of plumbing and mechanical code educational modules for the Virginia Building Code Academy as well as conducting statewide training in plumbing, mechanical and fuel gas code requirements and service on the Building Code Academy Advisory Committee. In 2005 the Association was honored to accept a Chapter Merit Award from the International Code Council.

Closer ties with our partners in code development and administration both within Virginia and throughout the country have developed. VPMIA, along with the Virginia Building and Code Officials Association and the Virginia Fire Prevention Association came together in October of 2005 for the first ever joint conference. The educational seminar lasted for four days with dual tracks offering a wide variety of training from Legal Aspects of Code Enforcement to Hydrogen Refueling Station installations. We have strengthened our Association by focusing on our responsibilities and purpose. Our foundation now consists of a vision, a mission and a strategic plan to further our goals. Thus we go onward, not knowing what challenges are to be faced tomorrow, but confident that through our dedication to learning today, we will be prepared.

Making History

The VPMIA, VBCOA, VFPA Joint Conference
On October 21, 2005 the Virginia Plumbing and Mechanical Inspectors Association

together with the Virginia Building Officials Association and the Virginia Fire Prevention Association held the first ever Joint Code Conference in Hampton, Virginia at Hampton's brand new Conference Center. The conference was a four day event that offered training in all areas of code enforcement. The Conference gave the participants an opportunity to network with each other, develop code knowledge, and earn valued continuing education credits towards certification maintenance. The training, which included everything from Legal Aspects of Code Enforcement to Kitchen Exhaust Installations, was the center piece of the conference utilizing top trainers from around the country.

ICC CEO, James Lee Witt, former FEMA Director and ICC President Henry L. Green were on hand to install Officers and speak to the members. They spoke about the International Code Council Foundation that is helping the Gulf Region Code Officials that were devastated by the hurricanes last summer, get back on their feet. They also spoke regarding ICC's efforts to provide uniform codes for users nationwide. Mr. Witt is spearheading an effort called HEROS. It helps wounded war veterans retrofit their homes for handicapped accessibility as they return from war with devastating handicaps.

A table-top show, with manufacturers of building materials, computer systems and organizations such as ICC and UL were on hand to discuss their products and services. Several of the table-top vendors also taught classes in their specialized areas. The ICC delivered a whole day class on the legal aspects of code enforcement which generated many questions from the class participants.

The social events were a big hit and well attended. On Saturday evening participants were treated to a buffet dinner and casino night at the Air and Space Museum, in Hampton. Everyone had a great time at the casino night and enjoyed the flight simulators. The next morning you had your choice of a golf outing or a fishing trip on the Chesapeake Bay. Although there weren't any hole in ones and very few fish were caught, everyone had a good time and took advantage of the opportunity to network.

Plans are being made for another joint conference in the future so be prepared to find yourself among the finest code enforcement officials in the state when we do it again. ■

Membership Application Form

I, the undersigned, hereby make application for membership, and if accepted, I agree to abide by the Constitution and By-laws of the Association, perform all requested duties and support the Association to the best of my abilities. I understand the membership fee shall cover the period from January 1st to December 31st, any payment received during the year shall cover only the remainder of the year.

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Title _____

Jurisdiction or Firm _____

Address _____

City _____ State _____ Zip _____

Telephone No. _____ Fax _____

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Signature _____ Date _____

ACTIVE MEMBERSHIP FEE: \$30.00
Active members must be employed by a government agency.

{ } Please check this block if you are a designated ICC voter, representing your municipality or jurisdiction.

ASSOCIATE MEMBERSHIP FEE: \$35.00
Associate members shall consist of persons interested in assisting the Association in promoting the safety, health and welfare of the public. Associate members must be approved, for membership in the Association, by the Board of Directors.

Make checks payable to: Virginia Plumbing and Mechanical Inspectors Association (VPMIA)

Please Mail To:

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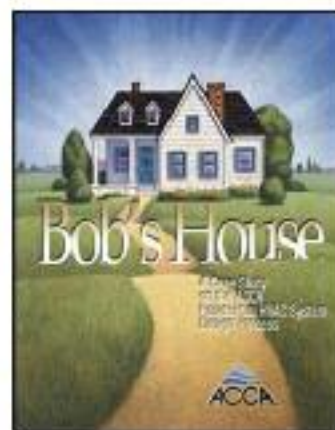
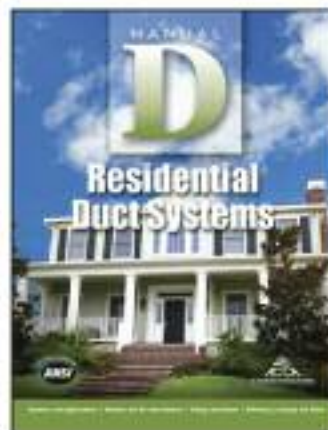
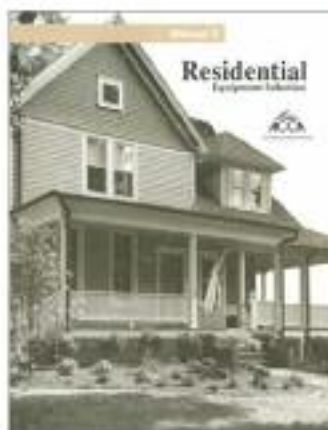
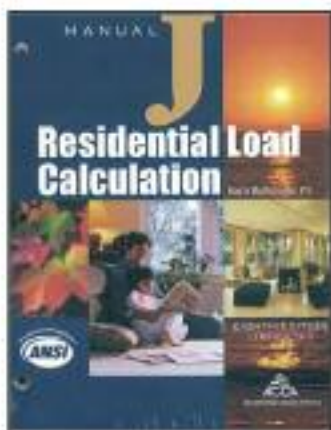
YOUR HVAC RESOURCE CENTER



The image shows a detailed HVAC Review Form for residential plans. A large yellow starburst with the text "NEW 2009" is overlaid on the form. The form includes sections for "Residential Plans Examiner Review Form for HVAC System Design (Load, Equipment, Duct)", "HVAC LOAD CALCULATION (see section 2)", "HVAC DUCT DISTRIBUTION SYSTEM DESIGN (see section 3)", and "Comments". It also features the ACCA logo and a vertical stamp that reads "READ THESE INSTRUCTIONS FIRST".

Residential Plans Examiner's HVAC Review Form

This form was developed to support an AHJ that desires to enforce the required HVAC system design process (see IRC M1401.3 and M1601.1). The form consolidates key information so you can provide an independent, simple, and quick evaluation of objective aspects in the HVAC system's design. To download a **free** copy, visit www.acca.org/codes. The form can be customized with your logos, contact, and other information for your internal use.



You can purchase these essential code reference materials (ACCA Manual J, S, & D) for your library at www.acca.org/store. Also look at *Bob's House*, written for code officials, this is the illustrated guide through the residential HVAC design process.



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