

September 13, 2011

TO: Members of the MAG Building Codes Committee

FROM: Ken Sowers, Avondale, Chair

SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Wednesday, **September 21, 2011** - 2:00 pm
MAG Office, Second Floor, Ironwood Room
302 North 1st Avenue, Phoenix

A meeting of the MAG Building Codes Committee (BCC) has been scheduled for the time and place noted above. Members of the MAG Building Codes Committee may attend in person, by videoconference or by telephone conference call. Those attending by telephone conference call must make arrangements with Steve Gross at MAG at (602) 254-6300 at least one day prior to the meeting.

If you drive to the meeting, please park in the garage under the building and bring your ticket to the meeting; parking will be validated. For those using transit, the Regional Public Transportation Authority will provide transit tickets for your trip. For those using bicycles, please lock your bicycle in the bike rack in the garage.

Pursuant to Title II of the Americans with Disabilities Act (ADA), MAG does not discriminate on the basis of disability in admissions to or participation in its public meetings. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting Jami Garrison at the MAG office. Requests should be made as early as possible to allow time to arrange for accommodation.

Please be advised that under procedures approved by the MAG Regional Council on June 26, 1996, all MAG committees must have a quorum to conduct business. A quorum is a simple majority of the membership, or 12 people for the MAG Building Codes Committee. If you are unable to attend the meeting, please send a proxy from your jurisdiction or agency to represent you.

If you have any questions or require additional information, please contact Scott Wilken at (602) 254-6300 or swilken@azmag.gov.

TENTATIVE AGENDA
MAG Building Codes Committee Meeting
September 21, 2011

1. Call to Order

2. Introductions

3. August 17, 2011 Meeting Minutes

4. Call to the Audience

Members of the public may request to speak on items that fall under the jurisdiction of the MAG Building Codes Committee (BCC) and are not scheduled on the agenda; or, on items on the agenda for discussion but not for action. A total of 15 minutes will be provided for the Call to the Audience, with a limit of three minutes per speaker, unless the Chair requests an exception to this limit. Those requesting to comment on action agenda items may be provided an opportunity to do so at the time the agenda item is heard.

5. Comments From the Committee

An opportunity will be provided for Building Codes Committee members to present a brief summary of current events. The Building Codes Committee is not allowed to propose, discuss, deliberate or take action at the meeting on any matter in the summary, unless the specific matter is properly noticed in accordance with the Arizona Open Meeting Law.

6. Legislative Update

An update will be provided on legislative issues of interest.

2. For information.

3. Review and approve the minutes of the August 17, 2011 meeting.

4. For information and discussion.

5. For information and discussion.

6. For information and discussion.

7. State Licensing of Assisted Living and Adult Day Health Care Facilities

Jim Tiffany, Larry Martens, Efa Torkwase, and Eleanor Strang from the State of Arizona Office of Assisted Living Licensing will give a presentation on the Rules and Statutes that govern Assisted Living and Adult Day Health Care Facilities, with particular emphasis on the licensing requirements and care issues that have specific implications for building, zoning, and fire safety officials, as well as the most commonly cited deficiencies for both Centers and Homes, and resources that are available through their office and on the internet. Please see **Attachment One**.

8. Appointments of Chair and Vice Chair of the MAG Building Codes Committee

On July 22, 2009, the MAG Regional Council approved the MAG Committee Operating Policies and Procedures. According to the Policies and Procedures, officer positions for technical committees have one-year terms, with possible reappointment to serve one additional term, by consent of the respective committee. In 2010, the Regional Council Executive Committee appointed Ken Sowers, Chief Building Official, City of Avondale as Vice Chair of the Building Codes Committee, and on July 1, 2011, he became Chair of the Building Codes Committee upon the expiration of the term of the previous Chair. In 2011, the Regional Council Executive Committee appointed Michael Williams, Deputy Development Services Manager, City of Tempe, as Vice Chair, effective July 1, 2011.

Effective December 1, 2011, Ken Sowers will be retiring from the City of Avondale and resigning from the Building Codes Committee. Pursuant to the Policies and Procedures, the Vice Chair will assume the Chair. Voting members of the Building Codes Committee interested in serving in the Vice Chair position should submit a letter of

7. For information and discussion.

8. For information and discussion.

interest to the MAG Regional Council Chair by October 28, 2011 for appointment by the MAG Executive Committee at its November 14, 2011 meeting. Please refer to **Attachment Two**.

9. Updated MAG Building Codes Committee Membership

We are requesting that Committee members review **Attachment Three**, Committee Roster, sent with this agenda. Please forward any changes to Scott Wilken prior to the meeting or provide them at the meeting.

10. Update Survey of Code Adoption

Attachment Four identifies the codes that member agencies have adopted. Please review this information and provide any updates or corrections to Scott Wilken.

11. Topics for Future Agendas

Potential topics for the next meeting will be discussed. Please think of any items of discussion or presentations that you would be interested in hearing about at future meetings.

The next meeting of the MAG Building Codes Committee is scheduled for Wednesday October 19, 2011 at 2:00 p.m. in the MAG Ironwood Room.

12. Adjournment

9. For information and discussion.

10. For information and discussion.

11. For information and discussion.

MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
BUILDING CODES COMMITTEE

August 17, 2011

Avondale Civic Center
11465 W. Civic Center Drive
Sonoran Room
Avondale, Arizona

COMMITTEE MEMBERS

Ken Sowers, Avondale, Chair

Phil Marcotte, Buckeye

*Mike Tibbett, Carefree

Mike Baxley, Cave Creek

*Martin Perez, Chandler

*Mary Dickson, El Mirage

*Peter Johnson, Fountain Hills

*John Smith, Gila Bend

*Jo Rene DeVeau, Gila River Indian
Community

A- Ray Patten, Gilbert

Tom Paradise, Glendale

Ed Kulik, Goodyear

*Chuck Ransom, Litchfield Park

Tom Ewers, Maricopa County

Steven Hether, Mesa

Bob Lee, Paradise Valley

*Dennis Marks, Peoria

Julie Belyeu, Phoenix

A-Dean Wise, Queen Creek

Dustin Schroff for Michael Clack,
Scottsdale

A-Michael Williams, Tempe

Dale Crandell for Mario Rochin, Tolleson

Rick DeStefano, Wickenburg

*Jim Fox, Youngtown

Jackson Moll, Home Builders Association

OTHERS IN ATTENDANCE

Scott Wilken, MAG

Jonathan Widney, Solibri

JD Sherrill, Solibri

Russ Sanders, Orcutt/Winslow

Brett Harris, Avondale

Randall Westacott, Avondale

Bruce Dimmig, Project Resource Origins

*Those members neither present nor
represented by proxy.

A-Those members participating via
audioconference

1. Call to Order

Ken Sowers, Chairman, called to order the August 17, 2011 meeting of the MAG Building Codes Committee (BCC) at 2:01 p.m.

2. Introductions

Voting members Michael Williams, Dean Wise, and Ray Patten attended via telephone conference call. All members and guests introduced themselves.

3. July 20, 2011 Meeting Minutes

It was moved by Bob Lee, seconded by Phil Marcotte and unanimously recommended to approve the July 20, 2011 meeting minutes.

4. Call to the Audience

There were no comments from the audience.

5. Comments From the Committee

Bob Lee commented that the Arizona Building Officials, AZBO, Fall Educational Institute will take place October 3-7 at the Prescott Resort. He also said the course list and registration are available on the AZBO website, azbo.us. He also said that at the next Central Arizona International Code Committee, ICC, Chapter meeting there will be discussion of scholarships to the AZBO Fall Educational Institute.

Tom Paradise asked about the classes being offered at the AZBO Fall Educational Institute. He asked if anyone can suggest classes to be taught. Bob Lee responded that, yes, anyone can suggest classes by sending an email to himself, Ray LaHaye, Steve Brown, or Bill King. Ken Sowers said that class suggestions could be sent to him, as well.

Tom Paradise mentioned that he was interested in a class on how to do outside air calculations. Ken Sowers said that it is too late to add another class to the Fall Educational Institute, but it would be a good topic for the Spring Educational Institute.

Bob Lee said that the next Central Arizona Chapter of ICC will be held September 8, 2011, at the League of Cities of Towns building at 1820 W. Washington.

Bob Lee talked about a recent incident in Paradise Valley in which a fire hydrant, which had been positively located twice in the past year, has gone missing, and asked if any other member had seen this problem before.

Scott Wilken told the committee that Ecotality is conducting a survey of member agencies regarding electrical codes, and that MAG will be giving the email addresses of the committee members to Ecotality so they can be contacted individually. The members should expect to get contacted in the next few weeks.

6. Building Information Modeling

Russ Sanders from Orcutt/Winslow and Jonathan Widney from Solibri gave a presentation on building information modeling (BIM). Russ Sanders said that BIM allows architects and engineers to virtually construct buildings in three dimensions in the computer environment, and that allows the user to analyze the building and check various aspects of performance of the building, such as energy analysis or acoustical analysis. He said that BIM can also be used to locate the building geospatially, as seen in Google Earth.

He said that BIM allows the user to convert an Excel spreadsheet containing lists of names and places into three-dimensional boxes and then reconcile the adjacency of those spaces. He said that existing buildings can be laser scanned to produce point feedback and then brought into the BIM software to be modeled by the architect. He said that BIM allows the user to bring parametric objects into the model, and use a cabinet as an example, saying that an individual cabinet could have many different options and styles, and then can be inserted into the model. Bob Lee asked if Russ selects the parametric objects from a library of things. Russ replied that Orcutt/Winslow has a large library of objects that they choose from, including some parts that come with software, some manufacturer-specific parts, and some that the firm has designed.

Russ Sanders described how BIM is used to collaborate online with design professionals in other places, and allows all participants to work in the same model at the same time. He also said that if you have multiple modules that are repeated in a building, like hotel rooms, you can work on one room, or have multiple people work on one room, and then have the software populate that room throughout the hotel as desired. He said that the BIM software has allowed Orcutt/Winslow to bid on more design jobs around the country, with collaborators in different cities working on the same project.

Bob Lee asked if this software gives designers the ability to simply produce more and more paper, or will they be able to supply municipalities with electronic documents that can be reviewed electronically. Russ Sanders answered that in the future he believes design firms will be contracted to a model rather than a set of documents, and that they will be submitting the model to municipalities for review.

Russ Sanders described how BIM models can be used for clash detection. He said, for example, if you have a mechanical model, electrical model, and plumbing model, the software can show how those different elements interact and find places where they might clash during construction. He said that this is particularly useful for general contractors to plan out phases of construction.

Russ Sanders continued that in their office, their documentation is moving more toward three-dimensional sections, showing more detail than in traditional plans. He then described how BIM models are used by contractors and tradesmen, who link cost and schedule to the model dynamically. He said that contractors are able to animate the construction sequence. He said that contractors look for clashes in geometry, but also for clashes in staffing to ensure that different groups of people are working on the building at different times to spread them out more over time and not have a lot of workers at the same place at the same time. He also said that BIM can be used to make virtual mockups, to demonstrate exactly how different pieces of the building would be assembled. He said that in the future he thinks that BIM will be used to create animations to show how pieces and buildings are built and put together.

Bob Lee commented that it looks like BIM is good when designing a high-rise building, and asked if it had any value on something smaller, like custom homes. Russ Sanders answered that it is very effective for custom homes, and it can be used to speed up production because it can be used to draw from a finite list of elements that can be selected by the buyer.

Julie Belyeu asked if BIM can help designers make revisions to plans and resubmit to municipalities sooner. Russ Sanders said that the plans can be resubmitted faster than today, and that the municipality can put the two versions side-by-side to see the differences. He also said that he thinks it would be helpful to share the initial model at the pre-submittal meeting so that both sides have a common understanding of what the project is and what is included in the designs and why. Bob Lee added that he has had someone come to him with a 90% complete model and asked questions about the review and the requirements. He said that when the paper plans came in, he saved time by not having to familiarize himself with the project, having seen the model previously.

Jonathan Widney presented how BIM can be used for building plan review by municipalities. He compared the evolution of the design/build technology to the rapid evolution of cell phone technology. He said that designers and contractors are starting to use BIM, and his goal is to make sure the reviewers and inspectors at municipalities don't get left out.

Jonathan Widney said that Solibri is software that checks the quality of BIM models, and that it can check models against building codes to find places that the models don't meet code. He said that a group at the University of Texas called Fiatch is working on a project called Autocodes, which has a goal of finding a way to review building models faster without sacrificing quality. He said that the groups have been working with the International Code Committee (ICC) to get approval of the process at a national level. He gave examples of problems reviewing two-dimensional plans manually versus three-dimensional plans using the software.

Jonathan Widney continued that he hopes to deliver a set of plan-check rules for the software to the ICC by the end of the year, with the idea that municipalities and counties will be given copies of the software free of charge to be used to review BIM models. He said that it makes sense for Solibri to give the software to municipalities for free because the designer community will be the primary purchasers, but they won't be able to make the best use of the product unless the municipal reviewers are able to review the three-dimensional models as intended.

Jonathan Widney and JD Sherrill gave a live demonstration of how the Solibri software runs building code rule checks on a set of three-dimensional plans. The software was able to locate parts of the building model that didn't meet code and specified what the rule was that was violated. The software also identified all egress routes from the buildings to check that minimum distances to fire exits from all areas of a building met requirements.

Brett Harris noted that the building being used in the demonstration was a Target store, but that the floor of the store was empty of display shelves. He asked if the software can review exit routes with the shelves in place. Jonathan Widney said that it can be, and that it ends up forcing Target to design the interior of their stores better.

Bob Lee asked if the end result will be that the BIM model is submitted to the city and the plans are simply stamped approved. Jonathan Widney responded that the municipality can't count on the designer being able to meet all the code requirements on the first try, even though it's in

the designer's best interest to do that. He said that the reviewer has to ensure that the design meets the intent of the code, as well as meets the rule exactly.

Steve Hether asked if the software will be able to understand that, at a two-hour fire rated wall, all doors and ducts, etc., have to include similar two-hour rating. Jonathan Widney said that the software is able to understand parameters like that, but that the software is still not a substitute for human intelligence. Steve Hether commented that a meeting before submission will still be required in order for the designer and the reviewer to have a common understanding of things like occupancy, seismic zone, or required wind load. Russ Sanders said that there may need to be a change in process, to have an earlier pre-meeting with the municipality to discuss things like this.

Jonathan Widney demonstrated how the software is able to compare an earlier version of a model with the current model, highlighting all the modifications that have been made since the last review.

Tom Paradise asked if this type of modeling is compatible with the type of modeling that is required for smoke evacuation. Jonathan Widney responded that if it's simply analysis, it can be incorporated into the software.

Jonathan Widney said that his goal isn't to sell or shove software to the municipalities, but if they want access to it he can provide access. He said that eventually he sees the software being delivered as part of the code update process. Steve Hether commented that he believes the architecture and engineering industry should ultimately be carrying the cost of this because in the end they're able to get their plans through the approval process faster.

7. Updated MAG Building Codes Committee Membership

There were no updates.

8. Update on Survey of Code Adoption Document

Bob Lee said that Paradise Valley has started talking about moving straight to the 2012 codes, and skipping 2009.

9. Topics for Future Agendas

Ken Sowers asked if any members have ideas for future meeting topics, noting that the next meeting has someone interested in presenting already. Scott Wilken said that he is talking to someone about coming to the next meeting to give a presentation regarding state licensing requirements for assisted living homes.

Jackson Moll said that some homebuilders have run into issues with scheduling inspections in some jurisdictions, and that this mainly has to do with the budget and staffing issues recently faced by municipalities. He said that at some point the level of building activity is going to increase, and that, because of political realities, local governments tend to be reactive. He said that the problem could arise that the level of building activity increases before local governments increase their levels of building staff, and that he would like to have a discussion or brainstorming session at a future meeting to find ways to bridge that gap.

10. Adjournment

Steven Hether made a motion to adjourn and Tom Paradise seconded the motion. The meeting was adjourned at 3:26 PM.

ASSISTED LIVING FACILITIES

BUILDING AND SAFETY ISSUES

Presented by
Larry Martens, Ellie Strang, Zakiya Torkwase,
& Jim Tiffany

Leadership for a Healthy Arizona



Licensees

- Assisted Living Homes-includes Adult Foster Care Homes 1714
- Assisted Living Centers 224
- Adult Day Health Care 23
- Respite 4
- Total Facilities: 1965*
- Total Licensed Beds: 28,861

*As of 01/01/2011

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Licensing of Assisted Living facilities

- Assisted Living facilities are divided into three main categories:
 - Assisted Living Centers (ALCs) care for 11 or more residents.
 - Assisted Living Homes (ALHs) care for 10 or fewer residents.
 - Adult Foster Care Homes (AFCs) care for 4 or fewer residents

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Licensing of Assisted Living facilities (con't)

- Assisted Living facilities can be licensed at one of the following levels of care:
 - Supervisory care (the lowest level)
 - Personal care
 - Directed care (the highest level)
- Each level of care includes the level(s) shown above it – for example, Directed care includes both Personal and Supervisory care.



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Levels of Care

- Supervisory care = No hands-on care, may need assistance with self-administration of meds
- Personal care = Physical limitations – persons at this level may be completely paralyzed, but still able to make their own decisions
- Directed care = Cognitive deficits – persons at this level cannot recognize danger, summon assistance, express need, or make basic care decisions



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Levels of Care: Implications for Building/Zoning Officials

- Residents at the Personal and Directed levels of care may be incapable of self-preservation
- The Department will not license a facility unless the local jurisdiction gives approval



Leadership for a Healthy Arizona

Twelve Year perspective

- 1998* 970 homes, 187 centers total 1157
- 2011 1714 homes, 224 centers total 1938
- * new rules effective 11/01/1998

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Smoking

- The Smoke-Free Arizona act applies to all Assisted Living facilities
- Elderly people, especially those with limited mobility or cognitive deficits, are more at risk for burns
- Smoking cessation programs are available free of charge: www.ashline.org

Leadership for a Healthy Arizona



Top 10 Most Cited Deficiencies- Centers

10. A.R.S. §36-406.1.d. Vaccinations
9. R9-10-707.A.1-11. Employee orientation
8. R9-10-706.A.2.c. CPR/First Aid
7. R9-10-718.10. Poisonous or toxic materials not stored in a locked area
6. R9-10-703.B.3. Resident TB tests

Leadership for a Healthy Arizona



**Top 10 Most Cited Deficiencies-
Centers**

5. R9-10-716.A.2. Facility not hazard-free
4. R9-10-711.A.5.b. Service Plan requirements
3. R9-10-711.A.6.a. Service plan not signed
2. R9-10-723.E. Medication Requirements
1. R9-10-706.A.1. Employee TB tests

Leadership for a Healthy Arizona



**Top 10 Most Cited Deficiencies-
Homes**

10. R9-10-716.A.1. Facility not in compliance with local codes/ordinances
9. R9-10-718.10. Poisonous or toxic materials not stored in a locked area
8. R9-10-723.B.1. Requirements for bedbound residents
7. A.R.S. §36-406.1.d. Vaccinations
6. R9-10-711.A.6.a. Service plan not signed

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Top 10 (Homes) continued

5. R9-10-713.B.6.b. Medication records
4. R9-10-713.B.3.a. Medications not stored in a locked area
3. R9-10-706.A.1. Employee TB tests
2. R9-10-703.B.3. Resident TB tests
1. R9-10-723.E. Medication Requirements

Leadership for a Healthy Arizona



Plan of Correction

An acceptable Plan of Correction (POC) MUST include at a minimum:

1. How the deficiency is to be corrected, on both a temporary and a permanent basis.
2. The date the correction is/will be implemented.
3. The name, title, and/or position of the person responsible for the correction.
4. A description of the monitoring system used to prevent the deficiency from recurring.
5. The licensee's or manager's signature, and the date that person approved the POC.

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Online Resources

- <http://www.azdhs.gov/als/hcb/index.htm>
- Frequently Asked Questions
- License renewal application (to print)
- Survey tool
- Caregiver/manager training programs
- Facility Directory
- Informal Dispute Resolution (IDR) Process
- On-line complaint system
- On-line renewal application system (NOW ACTIVE!)

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Online Resources

- www.azcarecheck.com
- Searchable database of providers
- Statements of Deficiencies
 - Includes complaints and compliance surveys
 - Includes dates deficiencies corrected
- Enforcement actions

Leadership for a Healthy Arizona



Online Resources

- The Arizona Board of Examiners of Nursing Care Institution Administrators and Assisted Living Facility Managers.
- <http://www.nciabd.state.az.us/>
- Approved continuing education programs
- Directory of certified managers
- Enforcement actions
- Links to rules and statutes
- Application forms: Initial, renewal, duplicate

Leadership for a Healthy Arizona



QUESTIONS

Phoenix main: 602-364-2639
Fax: 602-364-4766

Tucson main: 520-628-6965
Fax: 520-628-6991

Flagstaff: 928 226-0156
Fax: 928 774- 2830

- www.azdhs.gov/als/hcb

Thank You

Leadership for a Healthy Arizona





302 North 1st Avenue, Suite 300 ▲ Phoenix, Arizona 85003
Phone (602) 254-6300 ▲ FAX (602) 254-6480

September 13, 2011

TO: Members of the Building Codes Committee

FROM: Scott Wilken, MAG

SUBJECT: VICE CHAIR APPOINTMENT

On July 22, 2009, the MAG Regional Council approved the MAG Committee Operating Policies and Procedures. Officer positions for technical committees consist of one-year terms, with possible reappointment to serve one additional term, by consent of the respective committee.

In 2010, the Regional Council Executive Committee appointed Ken Sowers, Chief Building Official, City of Avondale as Vice Chair of the Building Codes Committee, and on July 1, 2011, he became Chair of the Building Codes Committee upon the expiration of the term of the previous Chair. In 2011, the Regional Council Executive Committee appointed Michael Williams, Deputy Development Services Manager, City of Tempe, as Vice Chair, effective July 1, 2011.

Effective December 1, 2011, Ken Sowers will be retiring from the City of Avondale and resigning from the Building Codes Committee. Pursuant to the Policies and Procedures, the Vice Chair will assume the Chair. Voting members of the Building Codes Committee interested in serving in the Vice Chair position should submit a letter of interest to the MAG Regional Council Chair by October 28, 2011 for appointment by the MAG Executive Committee at its November 14, 2011 meeting.

If you have any questions, please contact Scott Wilken at the MAG office at (602) 254-6300 or swilken@azmag.gov.

cc: MAG Management Committee
MAG Intergovernmental Representatives

MAG BUILDING CODES COMMITTEE MEMBERSHIP AS OF
9/13/2011

ATTACHMENT THREE

Voting Members				
Name	Representing	Telephone #	Fax #	E-mail Address
Ken Sowers (Chair)	Avondale	623-333-4025	623-333-0401	ksowers@avondale.org
Michael Williams (Vice Chair)	Tempe	480 350-8670	480 350-8677	michael_williams@tempe.gov
Phil Marcotte	Buckeye	623-349-6200	623-349-6221	pmarcotte@buckeyeaz.gov
Mike Tibbett	Carefree	480-488-1471	480 488-3845	mike@carefree.org
Mike Baxley	Cave Creek	480-488-6637	480-488-2263	mbaxley@cavecreek.org
Martin Perez	Chandler	480-782-3109	480-782-3110	martin.perez@chandleraz.gov
Mary Dickson	El Mirage	623-876-2932	623-876-4607	mdickson@cityofelmirage.org
Peter Johnson	Fountain Hills	480-816-5110	480-837-3145	pjohnson@fh.az.gov
Ray Patten	Gilbert	480-503-6820	480-497-4923	ray.patten@gilbertaz.gov
Tom Paradise	Glendale	(623) 930-3143	(623) 915-2695	tparadise@glendaleaz.com
Ed Kulik	Goodyear	623-932-3910	623-932-1177	ekulik@goodyearaz.gov
Chuck Ransom	Litchfield Park	623-935-4356	623-935-5427	building@litchfield-park.org
Tom Ewers	Maricopa County	602-506-7145	602-506-3282	tomewers@mail.maricopa.gov
Steven Hether	Mesa	480-644-2039	480-644-4900	steve.hether@mesaaz.gov
Bob Lee	Paradise Valley	480-348-3631	480-951-3751	rlee@paradisevalleyaz.gov
Dennis Marks	Peoria	623-773-7232	623-773-7233	dennis.marks@peoriaaz.gov
Julie Belyeu	Phoenix	602-495-7346	602-495-5430	julie.belyeu@phoenix.gov
Dean Wise	Queen Creek	480-358-3009	480-358-3002	dean.wise@queencreek.org
Michael Clack	Scottsdale	480-312-7629	480-312-9029	mclack@scottsdaleaz.gov
VACANT	Surprise			
Dale Crandell	Tolleson	623-936-7111	623-936-7117	dcrandell@tollesonaz.org
Rick DeStefano	Wickenburg	928-684-5451 x513	602-506-1580	rdestefano@ci.wickenburg.az.us
Jim Fox	Youngtown	623-933-8286 x117	623-209-3026	jfox@youngtownaz.org
Non-Voting Members				
Name	Representing	Telephone #	Fax #	E-mail Address
Jackson Moll	Home Builders Assn.	602-274-6545	480-556-5478	mollj@hbaca.org
Jim Ricker	Town of Guadalupe	480-505-5380	480-730-3097	jim@guadalupeaz.org
Alfonso Rodriguez	Fort McDowell Yavapai Nation	480-789-7740	480-789-7798	arodriguez@ftmcdowell.org
Michael McMillan	Brown and Associates	480-991-3751	480-596-5065	mac@brown-and-associates.net
Dennis Dixon (T)	Apache Junction	480-671-5156	480-982-7010	dennisdixon@ajcity.net
Scott Wilken	MAG	602-254-6300	602-452-5098	swilken@azmag.gov

(T) Temporary

Survey of Code Adoption

Jurisdiction	Building	Mechanical	Plumbing	Electric	Residential	Fire	Energy	Existing Building Code	Fuel Gas	Performance	Green Construction	Notes	URL	Anticipated Adopted Date by Council	Anticipated Effective Date for 2009 or 2012 ICC Codes (Month and Year)
Avondale	2009 IBC	2009 IMC	2009 IPC	2008 NEC	2009 IRC	2003 IFC	2009 IECC		2009 IFGC				Avondale	February 2011	July 1, 2011
Buckeye	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC	2006 IECC					2006 Fuel Gas Code. Codes adopted 2/20/07, effective 7/1/07	Buckeye		No plans to adopt 2009 codes.
Carefree	2003 IBC	2003 IMC	1994 UPC	2002 NEC	2003 IRC	2003 IFC						Codes became effective July 1, 2006	Carefree		Not going to adopt, staying with 2003.
Cave Creek	2003 IBC	2003 IMC	1994 UPC	2002 NEC	2003 IRC	2003 IFC	2003 IECC						Cave Creek	January/February 2011	July 2010
Chandler	2009 IBC	2009 IMC	2009 IPC	2008 NEC	2009 IRC	2006 IFC	2009 IECC	2009 IEBC	2009 IFGC			Effective July 1, 2011	Chandler		
El Mirage	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC	2006 IECC	2006 IEBC	2006 IFGC			1997 ICC/ANSI Accessibility Code with Arizonans with Disabilities Act. New codes will go into effect Jan. 1, 2008 with city amendments.	El Mirage	January/February 2010	July 2010
Fountain Hills	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC	2006 IECC					Codes adopted April 17, 2008 with town amendments available on Web site.	Fountain Hills		No plans to adopt 2009 codes.
Gila Bend	1997 UBC	1997 UMC	1997 UPC	1999 NEC	1997 UBC	1997 UFC									Just adopted 2006 IBC.
Gila River	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2003 IFC	None								
Gilbert	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC	2006 IECC		2006 IFGC			ADAAG per state requirements	Gilbert	No date	No plans to adopt 2009 codes.
Glendale	2006 IBC	2006 IMC	2006 UPC	2005 NEC	2006 IRC	2009 IFC		2006 IEBC				With city amendments. Effective Sept. 1, 2007	Glendale	No date	No date
Goodyear	2006 IBC	2006 IMC	1994 UPC	2005 NEC	2006 IRC	2006 IFC	2006 Residential					Adopted 5-14-2007.	Goodyear		
Guadalupe	1997 UBC	1997 UMC	1994 UPC	1999 NEC	1997 UBC	1997 UFC									Need phone #
Litchfield Park	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2003 IFC (waiting on Avondale)	2006 IECC		2006 IFGC			Codes effective July 1, 2008	Litchfield Park		
Maricopa County	2009 IBC	2009 IMC	2009 IPC	2008 NEC	2009 IRC				2009 IFGC			WITH MAG/AZBO AMENDMENTS	Maricopa County	Adopted August 18, 2010	Effective date of 10-1-10, but with a grace period to 1-1-11.
Mesa	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC	2009 IECC (Effective 1/3/12)	2006 IEBC	2006 IFGC			2006 IBC, IMC, IPC, IRC and 2005 NEC will be effective 2/4/07. Did not adopt the energy code.	Mesa		
Paradise Valley	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC	2006 IECC		2006 IFGC			Effective July 1, 2007	Paradise Valley	January/February 2011	July 2011. Considering adopting the 2009 IECC.
Peoria	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC			2006 IFGC				Peoria	January/February 2011	July 2010
Phoenix	2006 IBC	2006 IMC	2006 UPC	2008 NEC	2006 IRC	2006 IFC w/ Amendments	2006 IECC	2006 IEBC	2006 IFGC	2006 ICCP for Buildings and Facilities	IGCC Public Version 2	Effective July 2, 2008	Phoenix	Jan 2013	Discussing 2012 ICC, anticipated Jan 2013
Queen Creek	2006 IBC	2006 IMC	2006 UPC	2005 NEC	2006 IRC	2006 IFC	2006 IECC	2006 IEBC				Effective Aug. 7, 2008	Queen Creek		No plans to adopt 2009 codes.
Salt River	2003 IBC	2003 IMC	2003 UPC	2002 NEC	2003 IRC	2003 IFC	None								Need phone #
Scottsdale	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC	2006 IECC				IGCC Public Version 2	Effective Sep. 1, 2007, except IPC June 30, 2008	Scottsdale	January/February 2010	July 2010

Survey of Code Adoption

Jurisdiction	Building	Mechanical	Plumbing	Electric	Residential	Fire	Energy	Existing Building Code	Fuel Gas	Performance	Green Construction	Notes	URL	Anticipated Adopted Date by Council	Anticipated Effective Date for 2009 or 2012 ICC Codes (Month and Year)
Surprise	2006 IBC	2006 IMC	2006 IPC	2006 IEC w/ 2005 NEC	2006 IRC	2006 IFC	2006 IECC	2006 IEBC	2006 IFGC			Adopted June 28, 2007	Surprise	January 2010	July 2010
Tempe	2006 IBC	2006 IMC	2006 IPC	2008 NEC	2006 IRC	2006 IFC	2006 IECC	2006 IEBC	2006 IFGC			Effective 1/12/2009	Tempe		
Tolleson	2006 IBC	2006 IMC	2006 IPC	2005 NEC w/ 2006 IEC	2006 IRC	2006 IFC	2006 IECC					2006 Fuel Gas Code, 2006 IPMC, 2006 NEAC. Codes adopted 2/20/07, effective 7/1/07.	Tolleson 2006 IFC Amend.	January/February 2010	July 2010
Wickenburg	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2003 IFC	2006 IECC	2006 IEBC	2006 IFGC				Wickenburg		No plans to adopt 2009 codes.
Youngtown	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC			2006 IFGC				Youngtown	November 2010	January 2011

This is intended to be used as a guide, for the selected codes, as to what other agencies have adopted or intend to adopt.

Last updated August 9, 2011 by Scott Wilken, MAG

Source: MAG Building Codes Committee Members