

August 10, 2016

TO: Members of the MAG Building Codes Committee

FROM: Larry Taylor, Gilbert, Chair

SUBJECT: MEETING NOTIFICATION AND TRANSMITTAL OF TENTATIVE AGENDA

Wednesday, **August 17, 2016** - 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 Merry Holmgren 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 Scott Wilken 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
August 17, 2016

- | | |
|--|--|
| 1. <u>Call to Order</u> | 2. For information. |
| 2. <u>Introductions</u> | 3. Review and approve the minutes of the May 18, 2016 meeting. |
| 3. <u>May 18, 2016 Meeting Minutes</u> | 4. For information and discussion. |
| 4. <u>Call to the Audience</u>

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. For information and discussion. |
| 5. <u>Comments From the Committee</u>

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. For information and discussion. |
| 6. <u>Construction Encroachment</u>

A presentation and discussion regarding problems with construction of multi-story and zero-lot line structures encroaching on electrical easements. Please see Attachment One . | |

- | | |
|---|-------------------------------------|
| 7. <u>Standard Plans Best Practices</u>

Many standard track home plans are becoming complicated for review, inspections, and the trades. This discussion will focus on coming up with an option limit that provides enough flexibility without overcomplicating the review, inspection, and construction processes. | 7. For information and discussion. |
| 8. <u>Electronic Plan Review</u>

A presentation on the City of Maricopa's new electronic plan review system. | 8. For information and discussion. |
| 9. <u>Zero Attic Venting</u>

A discussion regarding zero attic venting, and related issues per building code regulations. | 9. For information and discussion. |
| 10. <u>Updated MAG Building Codes Committee Membership</u>

We are requesting that Committee members review Attachment Two , Committee Roster, sent with this agenda. Please forward any changes to Scott Wilken prior to the meeting or provide them at the meeting. | 10. For information and discussion. |
| 11. <u>Update Survey of Code Adoption</u>

Attachment Three identifies the codes that member agencies have adopted. Please review this information and provide any updates to Scott Wilken. | 11. For information and discussion. |
| 12. <u>Topics for Future Agendas</u>

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

The next meeting is scheduled for Wednesday September 21, 2016 at 2:00 p.m. in the MAG Ironwood Room. | 12. For information and discussion. |
| 13. <u>Adjournment</u> | 13. |

MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
BUILDING CODES COMMITTEE

May 18, 2016

Maricopa Association of Governments Office
302 N. 1st Ave
Ironwood Room
Phoenix, AZ

COMMITTEE MEMBERS

Larry Taylor, Gilbert, Chair
Gregory Arrington, Youngtown, Vice Chair
*Dave Zellner, Apache Junction
Brett Harris, Avondale
Phil Marcotte, Buckeye
*Mike Tibbett, Carefree
*Mike Baxley, Cave Creek
#LeeRay Hanly for Ron Boose, Chandler
Mary Dickson, El Mirage
*Jason Penrod, Florence
*Jason Field, Fountain Hills
Tom Paradise, Glendale
*Randal Westacott, Goodyear
*Chuck Ransom, Litchfield Park

Robert Mathias for Maricopa
*Tom Ewers, Maricopa County
Steven Hether, Mesa
*Bob Lee, Paradise Valley
#Dennis Chase, Peoria
Michael Abegg, Phoenix
#Michael Williams, Queen Creek
Dustin Schroff for Michael Clack, Scottsdale
*Brigham Bennett, Surprise
#Martin Perez, Tempe
Dale Crandell, Tolleson
#Kevin Bruce, Wickenburg
*Jackson Moll, Home Builders Association
*Sharon Bonesteel, Salt River Project

OTHERS IN ATTENDANCE

Merry Holmgren, MAG
Scott Wilken, MAG
#Fredric Zwerg, Southwest Gas

Chris Baggett, APS
Saira Flores, Maricopa

*Those members neither present nor
represented by proxy.

#Those members participating via
audioconference

1. Call to Order

Larry Taylor, Chair, called to order the May 18, 2016 meeting of the MAG Building Codes Committee (BCC) at 2:00 p.m.

2. Introductions

Voting members LeeRay Hanly, Dennis Chase, Michael Williams, Martin Perez, and Kevin Bruce attended via telephone conference call. All members and guests introduced themselves.

3. March 16, 2016 Meeting Minutes

Mike Abegg said that the third sentence of Item 6 should be amended from “soils report” to “listing report.” Scott Wilken said that the committee members list should have “Acting Chair” deleted. Mary Dickson made a motion to approve the March 16, 2016 minutes as amended. Steven Hether seconded the motion, and the motion passed unanimously.

4. Call to the Audience

There were no comments from the audience.

5. Comments From the Committee

Mary Dickson reminded the committee of the AZBO Fall event, which will be the last weekend in September in Mesa.

6. Drones for Emergency Inspections

Gregory Arrington led a discussion on the use of drones for emergency inspections. He said that Youngtown is considering using drones to inspect areas following natural disasters, rather than sending staff to the disaster site. He said that there was a possibility down the road to expand the drone usage into building and code enforcement inspections. Dennis Chase said that Peoria has had discussions to use drones to inspect solar arrays, but have not purchased drones for that purpose yet. Mike Abegg said that there have been discussions about national pilot licensing and liability for drones, and a consideration would have to be having the operator trained by Federal Aviation Administration (FAA) standards. He said the other thing to weigh would be the current use of photography in inspections, either by an inspector or customer. He said that if photography is allowed in inspections currently, the biggest change would be from where the photographs are taken. Dennis Chase said that for solar inspections, their inspectors are not currently allowed on the roof, so they ask for photographs from the installers. He said that using drones instead would allow them to take the photographs themselves. Tom Paradise asked if this was leading to inspectors not visiting sites at all and only relying on photographs of construction. Gregory Arrington said that they are discussing having the drones piloted by town staff, and would be responsible for making sure the inspections are done properly. Tom Paradise said that a contractor could then argue that they could take the pictures and send them to the inspector, without the need for the drone. Gregory Arrington said that this is why he would like to get in front of the issue, and make sure the inspectors are properly doing their job if and when these changes are made. Mike Abegg said that currently Phoenix allows photographs when there is a violation of some kind already, but not as a primary source of inspection. Steven Hether said

that he thinks drones would be good for areas that are hard to get to, but he would like to see a comparison between a drone and a human inspector. He said that drones would be great for the initial inspections of natural disasters. Mike Abegg said that they went through a similar adjustment when they switched from paper to electronic plan review. He said that inspectors do things that are tactile, rather than just visual, so he does not foresee drone inspections replacing in-person inspections. Robert Mathias said that he has not seen an issue that drones need to solve yet, so he does not think drones are ready for this type of use. Larry Taylor asked if anyone is using drones in any other application currently. He said that Gilbert's digital team has a drone for video production. Robert Mathias said that Maricopa's media and communications staff has a drone for similar uses. Steven Hether said that it would be nice to have a known list of drones that could be called on by other communities when there are natural disasters.

7. Legislative Update

Scott Wilken provided an update on legislative action of interest to the committee. He read a list of the final statuses of the bills that the committee was tracking.

8. Updated MAG Building Codes Committee Membership

There were no updates.

9. Updated Survey of Code Adoption

There were no updates.

10. Topics for Future Agendas

Mike Abegg said that his item related to deep foundation systems is still being written, and will be brought back to the committee when it is ready. Phil Marcotte said that he would like to further discuss contractor exemptions for owner-builders at churches. Scott Wilken said that he would try to get someone from the Registrar of Contractors to attend a meeting to discuss the exemptions more. Robert Mathias said that he would like to discuss standard plan options.

11. Adjournment

Larry Taylor said that the next meeting of the Building Codes Committee will be June 15, 2016.

Dale Crandell made a motion to adjourn. Phil Marcotte seconded the motion and the motion passed unanimously. The meeting was adjourned at 2:39 pm.



P.O. BOX 53999 • PHOENIX, ARIZONA 85072-3999

Planning of Construction Projects near APS Owned Facilities

To Whom It May Concern:

In order to minimize delays in obtaining required permits, APS recommends that the locations of all poles, overhead lines and equipment, and all underground electrical lines and equipment, be identified on construction plans for all projects when applying for a permit. Please be advised that there are safety requirements and standards that prohibit locating structures too close to existing power lines and equipment.

Additionally, APS reminds anyone who is planning a construction project that laws have been established to prevent accidental contact with power lines during construction, either directly by persons, or indirectly by equipment, tools, and/or materials utilized during construction near overhead and underground power lines and equipment.

For example, regarding overhead power lines:

1. OSHA Standards for Construction require a minimum 10 foot safe working clearance in all directions between a power line rated up to 50,000 volts, and tools, materials, workers and equipment. A working clearance of greater than 10 feet is required for power lines in excess of 50,000 volts.
2. Regarding the use of cranes and derricks, OSHA requires a minimum 20 foot safe working clearance in all directions from a power line rated up to 350,000 volts, and a minimum 50 foot safe working clearance in all directions from a power line rated over 350,000 volts.
3. The Arizona High Voltage Power Lines and Safety Restrictions Statutes require a minimum of 10 foot safe working clearance in all directions between a power line rated up to 50,000 volts, and any mechanical equipment or hoisting equipment or any load of such equipment, any part of which is capable of vertical, lateral or swinging motion. A working clearance of greater than 10 feet is required for power lines in excess of 50,000 volts.

It is required by law that notification be made to APS prior to any work or activities where any of the safe working clearances cannot be maintained.

Regarding underground power lines, the Arizona Underground Facilities Statutes require that proper and timely notification to the Arizona 811 system be given before any excavation work can be performed. These laws allow underground facility owners time to locate and mark any underground facilities in the specified boundaries. It is the excavator's responsibility to ensure that all underground facilities have been properly marked prior to any excavation on the site. The excavation must be performed in a careful and prudent manner when within 24 inches of any underground facility.

Please understand that our concern is for your safety, and the safety of your employees, sub-contractors, and the general public.

Please contact APS Public Safety at publicsafety@aps.com or 602-250-3418 for assistance if you have any questions and/or concerns.

Survey of Code Adoption

Jurisdiction	Building	Mechanical	Plumbing	Electric	Residential	Fire	Energy	Existing Building	Fuel Gas	Property Maintenance	Green Construction	Notes	URL	Effective Date	Anticipated Effective Date for 2012 or 2015 ICC Codes
Apache Junction	2006 IBC	2006 IMC	1994 UPC	2005 NEC	2006 IRC	2006 IFC							Apache Junction		
Avondale	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2003 IFC	2012 IECC		2012 IFGC				Avondale	7/3/2013	
Buckeye	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC	2012 IEBC	2012 IFGC	2006 IPMC		With city amendments.	Buckeye	1/17/2014	
Carefree	2003 IBC	2003 IMC	1994 UPC	2002 NEC	2003 IRC	2003 IFC							Carefree	7/1/2006	Not going to adopt, staying with 2003.
Cave Creek	2009 IBC	2009 IMC	2009 IPC	2008 NEC	2009 IRC	2009 IFC	2009 IECC	2009 IEBC	2009 IFGC				Cave Creek	1/1/2012	
Chandler	2015 IBC	2015 IMC	2015 IPC	2014 NEC	2015 IRC	2015 IFC	2015 IECC	2015 IEBC	2015 IFGC			2015 International Swimming Pool & Spa Code	Chandler	7/1/2016	
El Mirage	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC	2012 IEBC	2012 IFGC		2012 IGCC (optional)		El Mirage	7/1/2013	
Florence	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC	2006 IECC		2006 IFGC	2006 IPMC		2003 Accessible & Usable Bldgs & Facilities Code	Florence		
Fountain Hills	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2006 IECC		2012 IFGC			2012 Uniform Swimming Pool, Spa, and Hot Tub Code	Fountain Hills	11/21/2013	
Gila Bend	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC							Gila Bend		
Gila River	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2003 IFC							Gila River		
Gilbert	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2006 IECC		2012 IFGC		2012 IGCC (optional)	w/ 2012 IECC as voluntary	Gilbert	12/7/2013	
Glendale	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2009 IFC	2012 IECC	2012 IEBC	2012 IFGC			With city amendments.	Glendale	12/1/2012	
Goodyear	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC		2012 IFGC	2012 IPMC		2012 International Swimming Pool & Spa Code	Goodyear	7/1/2015	
Guadalupe	1997 UBC	1997 UMC	1994 UPC	1999 NEC	1997 UBC	1997 UFC							Guadalupe		
Litchfield Park	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2003 IFC	2006 IECC		2006 IFGC				Litchfield Park	7/1/2008	
Maricopa	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC		2012 IFGC	2012 IPMC			Maricopa	1/1/2013	
Maricopa County	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC		2012 IECC (optional)	2012 IEBC	2012 IFGC		2012 IGCC (optional)		Maricopa County	1/1/2014	
Mesa	2006 IBC	2006 IMC	2006 IPC	2005 NEC	2006 IRC	2006 IFC	2009 IECC	2006 IEBC	2006 IFGC				Mesa		
Paradise Valley	2015 IBC	2015 IMC	2015 IPC	2014 NEC	2015 IRC	2015 IFC	2015 IECC		2015 IFGC				Paradise Valley	7/1/2016	
Peoria	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC		2012 IFGC	2012 IPMC			Peoria	5/1/2013	
Phoenix	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC	2012 IEBC	2012 IFGC		2012 IGCC		Phoenix	7/1/2013	
Queen Creek	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC	2012 IEBC	2012 IFGC				Queen Creek	1/1/2014	
Salt River	2003 IBC	2003 IMC	2003 UPC	2002 NEC	2003 IRC	2003 IFC							Salt River		
Scottsdale	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC	2012 IEBC	2012 IFGC	2012 IPMC	2012 IGCC		Scottsdale	1/7/2013	
Surprise	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC	2012 IEBC	2012 IFGC	2006 IPMC	2012 IGCC (optional)		Surprise	9/1/2014	
Tempe	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC	2012 IEBC	2012 IFGC				Tempe	7/1/2015	
Tolleson	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC	2012 IECC	2012 IEBC	2012 IFGC	2012 IPMC			Tolleson	1/9/2015	
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	2012 IBC	2012 IMC	2012 IPC	2011 NEC	2012 IRC	2012 IFC		2012 IEBC	2012 IFGC	2012 IPMC			Youngtown	1/1/2014	No plans to adopt 2015 codes.

*This is intended to be used as a guide for the selected codes, as to what member agencies have adopted or intend to adopt.
 Last updated January 4, 2016 by Scott Wilken, MAG
 Source: MAG Building Codes Committee Members*

MAG BUILDING CODES COMMITTEE MEMBERSHIP AS OF
8/10/2016

Voting Members				
Name	Representing	Telephone #	Fax #	E-mail Address
Larry Taylor (Chair)	Gilbert	480-503-6958	480-497-4923	larry.taylor@gilbertaz.gov
Gregory Arrington (Vice Chair)	Youngtown	623-933-8286	623-933-5951	garrington@youngtownaz.org
Dave Zellner	Apache Junction	480-474-5084	480-982-7010	dzellnern@ajcity.net
Brett Harris	Avondale	623-333-4027	623-333-0400	bharris@avondale.org
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
Ron Boose	Chandler	480-782-3018	480-782-3110	ron.boose@chandleraz.gov
Mary Dickson	El Mirage	623-251-3508	623-583-8257	mdickson@cityofelmirage.org
Jason Penrod	Florence	520-868-7615	520-868-7546	jason.penrod@florenceaz.gov
Jason Field	Fountain Hills	480-816-5127	480-837-3145	jfield@fh.az.gov
Tom Paradise	Glendale	623-930-3143	623-915-2695	tparadise@glendaleaz.com
NO CURRENT APPOINTMENT	Goodyear			
Chuck Ransom	Litchfield Park	623-935-1066	623-535-9754	cransom@litchfield-park.org
NO CURRENT APPOINTMENT	Maricopa			
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@paradisvalleyaz.gov
Dennis Chase	Peoria	623-773-8420	623-773-7233	dennis.chase@peoriaaz.gov
Michael Abegg	Phoenix	602-534-6498		michael.abegg@phoenix.gov
Michael Williams	Queen Creek	480-358-3009	480-358-3001	michael.williams@queencreek.org
Michael Clack	Scottsdale	480-312-7629	480-312-9029	mclack@scottsdaleaz.gov
Jeff Rallo	Surprise	623-222-3054	623-222-3002	jeffrey.rallo@surpriseaz.gov
Roger Vermillion	Tempe	480-350-8071	480-350-8677	roger_vermillion@tempe.gov
Dale Crandell	Tolleson	623-936-7111	623-936-7117	dcrandell@tollesonaz.org
Kevin Bruce	Wickenburg	928-684-5451 x513	602-506-1580	kbruce@wickenburgaz.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
Sharon Bonesteel	Salt River Project	602-236-4498	602-236-2791	sharon.bonesteel@srpnet.com
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