



Minutes Tempe Aviation Commission October 8, 2013

Minutes of the Tempe Aviation Commission meeting held on October 8, 2013, 6:00 p.m., at the Public Works Conference Room, Garden Level, City Hall Complex, 31 E. Fifth Street, Tempe, Arizona.

(MEMBERS) Present:

Sally Clements
Shannon Dutton
Mark Garrigan
Gordon Gauss
Karyn Gitlis
Barbara Sherman (Vice Chair)
Alyson Star
David Swanson (Chair)

City Staff Present:

Oddvar Tveit, Environmental Quality
Specialist
Gerald Koziol, Senior Plan Check
Engineer

Meeting convened at 6:25 p.m.
Dave called the meeting to order.

Agenda Item 1 – International Energy Efficiency Code

Gerald announced that the city is going to adopt the 2012 International Energy Efficiency Code (IEEC). The goal is to have it done by January next year. The parts of the 2012 IEEC that affect sound in new residential constructions are linked to higher insulation values. The 2012 IEEC keeps to R-13 in the walls, but insulation in the attic has gone up to R-38, which is equivalent to the standard that was used by the City of Phoenix in the PHX Residential Sound Assistance Program (RSAP). Windows have not changed, they are getting thinner with focus is on energy efficient coatings not sound transmission resistance. All new residential under the 2012 IEEC needs to be pressure tested for leaks, and air duct systems for new construction need to be checked for leaks (duct blasting). This will also help to prevent sound from escaping in or out of a building. Baffles and duct turns to reduce sound being carried into a home were part of the PHX RSAP and with the 2012 IEEC will become part of the standard. Ducts in the attic need to be insulated. The only practical way to get an energy efficient attic in residential buildings with air cooling equipment and duct work located on the roof, is to insulate the underside of the roof with solid foam sprayed between the trusses. This produces effective sound insulation, as do concrete roof, clay tiles or asphalt tiles. Layers of several materials with different density create a more effective barrier against sound from the outside.

The 2012 IECC provides marginal increases in building energy efficiency. IECC's are issued every three years. Tempe is currently following the 2009 edition. The Department of Energy wants new IECC editions to improve energy efficiency by 15 percent. Cheap solutions to improve new construction techniques to reach this level of energy efficiency are becoming scarce. Extra insulation and better quality windows and doors give a lot of sound reduction benefits on top of reducing the energy bill.

Gerald explained and answered questions about the design of windows and doors. There are no code requirements in Tempe for insulating against sound from the outside. Sound transmission requirements in building codes are typically written as a level that sound needs to be reduced by, or as a maximum sound transmission level. Gerald explained the public process of making changes to building codes.

Follow up: Staff would work with Gerald to explore examples of local sound insulation requirements, with the objective of providing potential supplemental standards to the 2012 IECC that deal with the soundproofing of new residential buildings under the flight paths.

Agenda Item 2 – Public Appearances

There were no public appearances.

Agenda Item 3 – Consideration of Meeting Minutes (September 10, 2013)

Barbara proposed edits be made on page three of the minutes, and moved to approve the minutes as corrected. Karyn seconded the motion. The edited minutes were unanimously approved.

Agenda Item 4 – Options for Assistance under the Flight Paths

Staff introduced the topic by thanking Barbara for all the information she had gathered about Property Assessed Clean Energy (PACE) programs while in California. She asked the members for input on what could be facilitated in Tempe that potentially could establish local assistance to promote investments in building energy efficiency upgrades that would help achieve outdoor to indoor sound transmission reductions under the Tempe flight paths. Barbara talked about her experience with [Newtown](#), and initiatives like the [California First](#) PACE program, the [Berkeley First](#) property tax base model (for solar) and the Home Energy Renovation Opportunity (HERO) in [Riverside](#). She mentioned that the City of Berkeley has published an informative guide for local governments to set up [energy efficiency financing districts](#). Some of these programs need state legislation and the members agreed it would be easier for Tempe to build on existing programs offered to Tempe citizens. The members discussed how energy efficiency could fit into Newtown's programs, e.g. if their Individual Development Accounts (IDA) Down Payment Assistance (DPA) could be expanded. Energy efficiency investment incentives would be an addition to weatherization assistance, which is assistance to low income households typically administered by organizations like the Tempe Community Action Agency.

Follow up: Barbara would investigate further into what Newtown could accommodate, and staff would follow up with housing, the action agency and the city's Energy Management Coordinator. Karyn suggested she investigate what incentives the Downtown Tempe Community could be interested in pursuing.

Agenda Item 5 – Commissioners' Business (topics for future discussion)

Presentation of follow up actions:

- Under agenda items #1 and #4 for further discussions and possible actions.
- Invitation to Kevin Gurney ASU to talk about the Hestia Project.
- Reschedule a time for the taped interview with Hugh Hallman.

Agenda Item 5 – Schedule next TAVCO meeting

The next meeting was scheduled for November 12, 2013.

Agenda Item 6 – Adjournment

The meeting was adjourned at 7:53 p.m.

Prepared by: Oddvar Tveit

Reviewed by: Jeffrey Kulaga

Authorized Signature
Assistant City Manager