

**ACI COMMITTEE 307**  
**Reinforced Concrete Chimneys**  
**ACI 2016 Fall Convention - Philadelphia**  
**Philadelphia Marriott Downtown**  
**October 24, 2016**  
**2:00 PM – 5:00 PM Room 303**  
**Unapproved Minutes – 10/27/16**

**1. Call to Order**

Called to order at 2:08

**2. Attendance, Determination of Quorum**

<u>Voting Members (5 of 13)</u>	<u>Associate Members</u>	<u>Guests</u>
Denis Radecki	Kelly Scott	Dr. Takashi Hara
Dave Bird	Jay Amin	Arun Bhowmik
Scott Richart	Alan Wiley	John Dennon
Victor Bochicchio		
Shu-jin Fang		

Quorum for technical issues (40%) not met

**3. Guest Introductions**

**4. Review of Agenda**

**5. Review/Approval of Spring 2016 Meeting Minutes**

Approved. Motion: Richart      2nd: Bochicchio      Vote: 5-0

**6. Chair: Review of Goals, Status**

Alan Wiley has been added as an Associate Member. Tim Dement has requested change of status from voting member to associate member. Proposed interest categories and mini technical sessions were discussed.

**7. Progress Review: ACI 307-1X**

**Overall Organization**

**Chapter 1 – General**

**Chapter 2 – Notation and Definitions**

All notation to be checked when full draft is next distributed

**Chapter 3 – References**

**Chapter 4 – Structural System Requirements**

Definition of structural system revised

**Chapter 5 – Concrete and Concrete Materials**

Clarify concrete requirements apply to chimney but not foundation; review of testing periods in ACI 318-14

**Chapter 6 – Reinforcing Steel**

Clarify concrete requirements apply to chimney but not foundation

**Chapter 7 – Loads**

**Thermal Load**

Commentary for 7.4.1.2 should explain purpose of included model; add inlet/outlet area formula

**Along-wind Load**

Need Jon G. review of gust factor

### **Across-wind Load**

Need Jon G. review of tapered limitation, wind speed bounds, group effect

Non-code situations – refer to analytical models as well as tests and observations

### **Seismic Load**

Review chimney-liner interaction language (clarify in commentary?)

Should deflections be referred to as “service level” (check ASCE 7-10)

Use  $C_D$  instead of R in deflection equation (consistent with ASCE 7-10)

## **Chapter 8 – Design Strength of Horizontal Sections**

Suggested “cross sections” be used instead of “sections”

Noted that (Pu,Mn) calculation will be changed to (Pu,Mu) calculation

Equations to be reviewed to see if reinforcement in compression area opening can be ignored (as was previously done in ASD code) to reduce strength;  
current method probably results from desire to maintain equations as simple as possible  
text must reflect what is included in equations

## **Chapter 9 – Design Strength of Vertical Sections**

## **Chapter 10 – Opening Details**

## **Chapter 11 – Foundation**

## **Chapter 11 – Construction Requirements**

8. **OLD BUSINESS**

9. **NEW BUSINESS**

10. **Next Meeting: March 27, 2017, Detroit**

11. **Adjourn**

Meeting adjourned at 5:00

M-Radecki

2<sup>nd</sup>-Richart

Vote: 5-0