



**STRUCTURAL  
ENGINEERING  
INSTITUTE**

**SEI ASCE 7 Main Committee, 2022 edition**  
Tues., Nov. 6, 2018, 8:00am – 4:00pm  
Crowne Plaza Denver Airport Hotel  
15500 East 40th Avenue, Denver, CO 80239  
***VAIL Meeting Room***

## **MINUTES\_v1**

Presiding: Ronald O. Hamburger, Chair ASCE 7, 2022 edition

### **I. Welcome**

1. Attendance: 69 members; 3 guests (see list at end)
2. Approved Agenda
3. Approved Minutes from March 22, 2018 Meeting; add attendance

### **II. Process Items**

1. Introductions: Steering / Main Committee membership
2. ASCE 7-22 Goals, Charter and Operation Procedures – Goupil (Att. B)
  - Charter approved by ASCE CSC July 2018
  - Review Goals
  - “SEE GOUPIL.PPT”
3. Schedule – Hamburger/Goupil
  - a. ASCE 7-16 Supplement 1 Schedule (Att. C)
  - b. ICC IBC 2021-24 Schedule (Att. C)
  - c. ASCE 7-22 Schedule (Att. C.1)
  - d. Main & Subcommittee meeting schedule
    - i. ASCE 7-16 ROPC items (Att. D)
    - ii. ASCE 7-22 Public Proposals - received (Att. D.1)
4. ASCE Collaborate & ASCE Ballot system – Goupil
  - a. Balloting Best Practices
  - b. “SEE GOUPIL.PPT”
5. Task Committee for Electronic Platform (15 min) – Hamburger
  - Demo of ASCE 7 Online platform and ASCE 7 Hazard Tool
  - Effort to improve the online platform with goals of the committee
  - Effort will start with ASCE 7-16 and then add 7-22 as it is completed

- **ACTION:** If you want to work on this task committee with Ron, send him an email; Subcommittee Chairs to send names if not have a representative yet

### III. Subcommittee Reports: Schedules & Issues

1. Activities and anticipated proposals from subcommittees
  - a. Chapter 1: General Structural Requirements – Pekelnicky
    - SEE “Chapter 1” PPT
    - Purview is Chapter 1, App C, App E
    - ICC Performance Code alignment with ASCE 7; memo to ICC from ASCE
    - Immediate Occupancy; should Ch 1 include minimums on function for all risk category
    - Risk Category in ASCE 7; define around impact to human life rather than type of building; does not currently consider function, but should it?
    - Extraordinary Load Conditional Reliability
    - Proposals from last cycle: Tsunami Reliability Table
    - 7-16 ROPC: Review comment and will send to Main Committee for next meeting
    - What does Chapter 1 need to make it capable of standing alone for PBD?
      - Conditional probability
      - Conditional probability on RC IV function
      - Function requirements for RC I, II, and III

#### DISCUSSION:

- What is intent for Ch 1 relative to the I-Codes? For Chapter 1 to be the relevant option for the structural aspects of Alternate Methods
  - Where are the performance goals going to be contained? In chapter 1 or in hazard chapters? Don’t know yet
  - Conditional vs absolute probabilities and reliabilities
- b. Chapter 2: Load Combinations – McAllister
    - Public Inquiries: Solar Panel Load Combinations; Ponding Loads Combinations; Load Combinations for C&C
    - Reliability Guidance White Paper
    - Snow and Ice Load Combinations
    - Wind reliability for round structures
    - Tornado map update (later presentation from Marc Levitan)
    - Wind PBD Reliabilities: Member vs System (later presentation from Don Scott)
    - H Load Factor
    - Lateral pressure from surcharge

- Dead and Live Load Combination for High Dead Load
- Seismic load Factors for NLRHA
- Extraordinary loads and NTHA (Sect 16.4)
- Design strength by testing (coordinate with Chapter 1)
- Flood loads and load factors
- Seismic Uplift – LRFD vs ASD seismic foundation design

DISCUSSION:

- ICC 500 Buoyancy issue; may have misused the ASCE 7 Load Combinations; Marc Levitan to report back and coordinate with Terri
- Public inquiry: reliability for cladding could/should be different than for MFWRS
  - For the public inquiry the question was to remove Live Load from the combination; the decision was that Live Load is 0 and that is
  - If look at or discuss if reliability for C&C should be different than MFWRS

c. Chapter 3, 4: Dead and Live – Burwell

- SEE “Chapter 3-4” PPT
- Focus Items
  - Partition Live Loads
  - Crane Loads
  - Office Assembly Live Loads
  - Ladder and Handrails Loads vs OSHA
  - Commentary
  - IBC and ASCE 7-22 Alignment
    - 2021 Group B proposals to Chapter 16; 20 proposals
    - Coordinate with NCSEA
- Live Load History
- Public Proposals

DISCUSSION:

- Straw Poll: add loads for wheel loads or continue to point to AASHTO
- Dead Load tables:

d. Chapter 5: Flood – Cox

- Committee – liaisons with Wind, Tsunami, LC
- Timeline
- Proposed changed to Chapter 5: add content and increase logic for user
- “SEE Chapter 5.PPT”

DISCUSSION:

- Climate change; thought to add the statement perhaps point to commentary for more; if do consider, may need to consider the relevance to whole standard not just flood
  - ASCE 24 – Coordination will be maintained
- e. Chapter 6: Tsunami Load Effects – Chock
- Ballot #1 Results – Passed
  - ROC prepared by TLESC; “SEE Chapter 6.PPT”
  - Revisions and new proposals
    - Site specific documentation
    - Alaska landslides
    - Alaska topography updated TSZ and runups
    - High-resolution TSZ maps for CA and HI
    - Port and Harbor mapping site specific requirements
    - TSZ mapping of US Navy harbors in the Pacific Rim
    - EGLA procedure enhancements
    - Tsunami Design Loads
    - Debris Impacts
    - Foundations Design Requirements
    - Other Structures

DISCUSSION:

- Lateral-Force-Resisting System Acceptance Criteria ROC – Editorial response re-wrote most of the section
  - Research on tanks and vessels on hydrodynamic impacts
- f. Chapter 7, 8: Snow and Rain – Dunetmann
- Met last week
  - 2018 IBC Snow Loads Maps to be resubmitted into the
  - Public Ballots; “SEE Chapter 7&8.PPT”
  - New proposals
    - Multi-level windward drift
    - Full capture wall
    - Roof top piping drifts
    - Intersecting drifts
    - Ponding susceptible bays
  - Further development; “SEE Chapter 7&8.PPT”
    - Ground Snow Loads,  $p_g$
    - Drift provisions; Winter Wind Parameter
    - Partial Loading
    - Ponding Load
    - Roof Drainage

- Other:
  - Thermal Factor
  - Air supported structures
  - Snow retention systems
  - Solar paneled roofs
  - Solar trackers

DISCUSSION:

- Sliding snow and snow drift, appropriate to combine or not

g. Chapter 10: Atmospheric Ice – Peabody

- “SEE Chapter 10.PPT”
- Atmospheric Icing
  - Freezing Rain
  - In-cloud Icing
  - Sticky Snow
- Current Map = 500-year MRI Zone Map for RC II; Importance Factor to adjust for ice thicknesses
- Proposals
  - New analysis for data and maps; Extend periods of records
  - In-cloud icing; updates to commentary
  - Sticky Snow

DISCUSSION:

- none

h. Chapters 11-23: Seismic – Hooper

- Schedule
- Supplement #1
- Supplement #2
  - Chapter 16 (from Supplement #1)
  - Torsional Irregularity; “SEE SEISMIC.PPT”
    - Will come to MC ballot before next meeting
- MC Ballot #1; “SEE SEISMIC.PPT”
  - Clarification of P-delta equation
  - Corrugated Steel Water Tanks
  - Nonbuilding structures scope clean up
  - Nonbuilding structures strength and ductility clarification
  - Anchorage of Tanks and Vessels supported at Grade
  - Ground storage tanks for liquids
  - Nonbuilding structure P-delta

DISCUSSION:

- none
  
- i. Chapters 26-31: Wind – Scott
  - “SEE WND.PPT”
  - Committee make up; meeting schedule
  - Proposals ready for Main Committee
    - Special Wind regions; Northern Colorado, Southern California
    - Exposure D clarification in Commentary Figure
    - Glazing in Doors standard update
    - Loads cases in Design Steps
    - Removal of MWFRS Tabular Methods from Chapter 27 and 28; only propose removal for MWFRS at this time, CC will remain
    - Isolated tanks
  - Update on WLSC TCs and topics being discussed/developed
  - Tornado Task Committee PPT; “SEE Tornado.PPT”
    - Should we design?
    - Can we design for tornados?
    - Currently many buildings are design ed for tornados
    - ICC 500
      - Deterministic map, Max Considered Tornado
      - Additional criteria such as wind-borne debris, etc.
    - Proposal
      - Remove tornado limitation
      - Ch 26 maps to add tornado maps
      - Tornado loads for MRI > 3,000 years and
      - Non-tornadic wind speed maps for MRI> 3,000 years
    - Maps
      - NIST Contract with ARA
      - Current maps likely to be unconservative
      - Missing many tornados from databases
      - Developed methods to cluster recorded data
      - NIST Wind research
        - Enhanced dataset
        - Wind speed maps
        - Report on findings
      - NIST R&D Projects on Tornado Loading; Grant to several projects
    - 2<sup>nd</sup> Tornado Map Stakeholders Workshop Jan. 15, 2019
      - Present methodology
      - Present draft maps
      - Obtain stakeholder feedback

#### DISCUSSION:

- What is intended for ASCE 7-22? Maps only or maps and provisions? YES, new maps and associated load provisions
- What precision is involved for projection of 3,000 or greater MRI? This is common terminology in industries that use these criteria
- Combination of wind loads and depressurization loads; do not know what the eventual answer is, but these phenomena will be included; these phenomena have been tested and analyzed
- What data will be published and available to the public? NIST working with NOAA to correct and update the data
- Tornado missile loads or effects is being studied and intended to be included; working with existing criteria from ICC 500 and Nuclear Regulatory Industry
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#### IV. Coordination Items

1. Structural Standards Coordination Council Report – Soules
  - a. IBC Cycle – Group B coordination; “SEE SSCC.PPT”
  - b. NEW Business
    - i. BSSC/PUC proposals to consolidate Seismic Design Categories
    - ii. Consider procedures for SDO-SDO communications
2. Additional Items
  - Solar panels vs thermal; want to provide definition and will touch each subcommittee
    - How to best proceed thru the document?
    - Will discuss this at the steering committee and decide how to process thru the Main and Subcommittees
    - ACTION: Discuss this topic at steering committee meeting; Joe Cain to provide write up to Jennifer by January 2019

#### V. Date and Location of Next Meeting

1. Mar. 11-15 or April 8-12;
2. Oct. 14-18
3. ACTION: Poll for best Date, Location TBD based on contract options

#### VI. Closing Discussion/Adjournment

Adjourn at 2:45 pm

**ASCE 7-22 Main Committee Meeting; Nov. 6, 2018; Denver, Colo.**

First Name	Last Name	Attended Nov. 6
Ronald	Hamburger	X
Abdalsattar	Alfarra	
Farid	Alfawakhiri	X
Mohammad	Alhamaydeh	
Jeffrey	Alper	X
Kevin	Aswegan	
Samuel	Baer	
Nathan	Balcirak	X
James	Beavers	
Richard	Bennett	
Russell	Berkowitz	
Hussain	Bhatia	X
Kevin	Borth	X
Christopher	Bove	
Cairo	Briceno	
David	Brinker	
Jonathan	Brower	
Cheryl	Burwell	X
Ashley	Cagle	X
Joseph	Cain	X
Ronald	Carrington	
Jason	Charalambides	
Francisco	Chitty	
Gary	Chock	X
Ngai Chi	Chung	X
Dustin	Cole	x
Anne	Cope	X
Daniel	Cox	X
Jay	Crandell	
Chu	Ding	
Bradford	Douglas	X
Richard	Drake	
John	Duntemann	X
Judian	Duran	
Craig	Durgarian	X
Donald	Dusenberry	
Gary	Ehrlich	X
Bruce	Ellingwood	X
Christopher	Evans	
Qingyu	Fan	
David	Fanella	
Kellie	Farster	X
James	Fisher	
Donna	Friis	
Joe	Gencarelli	

First Name	Last Name	Attended Nov. 6
Khaled	Ghaedi	
Satyendra	Ghosh	
Ramon	Gilsanz	X
Cole	Graveen	X
John	Grieshaber	
Alexander	Griffin	X
Emily	Guglielmo	X
Mahmoud	Hachem	
Robert	Hanson	
James	Harris	X
Benchmark	Harris	X
M.R.	Hasan	
Drew	Hatton	
Cherylyn	Henry	X
Michael	Hill	
John	Hooper	X
Xiapin	Hua	
Saif	Hussain	
Edwin	Huston	X
Mohammad	Iqbal	
Kishor	Jaiswal	X
Alvaro	Jaramillo-Suarez	X
Hongping	Jiang	
Christopher	Jones	
Mohammad	Karim	
Volkan	Kebeli	
Ryan	Kersting	X
Jon	Kiland	
Yoo Jae	Kim	
Charles	Kircher	
Kari	Klaboe	
Raymond	Kovachik	
David	Kriebel	
Jason	Krohn	X
Lawrence	Kruth	X
James	Lai	
Robert	Lawson	
Thang	Le	X
Michael	Lee	X
Ji Yun	Lee	
Aaron	Lee	
Marc	Levitan	X
Abbie	Liel	X
Philip	Line	
Jeffrey	Linville	X
Hongchun	Liu	



First Name	Last Name	Attended Nov. 6
Anthony	Longabard	X
Chris	Mader	X
Sanjeev	Malushte	X
Bonnie	Manley	X
Dion	Marriott	
Mustafa	Mashal	
Mehedy	Mashnad	X
Ferris	Masri	
Therese	McAllister	X
Andrew	Mitchell	
Kevin	Moore	X
Mike	Mota	
Kai Ki	Mow	
Rudy	Mulia	
Khaled	Nahlawi	X
Chad	Norvell	
Lawrence	Novak	X
Andrzej	Nowak	
G. Brent	Nuttall	
George	Olive	
Michael	O'Rourke	
Frank	Park	
Robert	Pekelnicky	X
Jessi	Pereira	
Norman	Perkins	X
Kip	Ping	
James	Pirnia	
Maurice	Power	
Dylan	Quinn	
Mehedi	Rashid	
Jose	Real Ducasa	X
Nicholas	Reid	X
Rossana	Rivero Guedez	
Ian	Robertson	
Scott	Rosemann	X
Brian	Roye	
Eric	Rutenbar	X
Stephen	Schneider	X
Donald	Scott	X
Gwenyth	Searer	X
Randall	Shackelford	X
Omar	Sheikh	
William	Shoemaker	X
Constantine	Shuhaibar	X
Md	Siddiqui	
Constadino	Sirakis	
Dan	Siteman	X
Jonathan	Siu	X

First Name	Last Name	Attended Nov. 6
James	Soules	X
Harold	Sprague	
Thomas	Sputo	
Theodore	Stathopoulos	
David	Steele	
Sayed	Stoman	
Reid	Strain	
Thomas	Szewczyk	X
John	Tawresey	
Bahaar	Taylor	
Mostafa	Tazarv	
John	Tehaney	
Paulos	Tekie	
Seth	Thomas	X
Christos	Tokas	
Kiran	Tuniki	
Joseph	Tuttle	
Stefka	Vacheva	
Victoria	Valentine	
Amit	Varma	
Peter	Vickery	X
Naiyu	Wang	
Eric	Wey	
Andrew	Whittaker	
Brian	Wiese	
Michelle	Wilkinson	X
Peter J.	Willse	
Tom	Xia	
Riku	Ylipelkonen	
Hyeong	Yoon	
Ben	Yousefi	
Zia	Zafir	
Howard	Zee	X
William	Zippel	
Laura	Champion	
Jonathan	Esslinger	
Jennifer	Goupil	X
James	Neckel	

## GUESTS

First Name	Last Name	Attended Nov. 6
Alan	Peabody	X
Mehrdad	Sasani	X
John	Woestman	X

