

**FLORIDA BUILDING COMMISSION  
HURRICANE RESEARCH ADVISORY COMMITTEE  
TELECONFERENCE MEETING FROM TALLAHASSEE  
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**March 22, 2021**

**1:00 P.M.**

## **Minutes**

### **HURRICANE RESEARCH ADVISORY COMMITTEE MEMBERS PRESENT:**

Sergio Ascunce  
Anne Cope, Ph.D./Eric Stafford  
Mark Mikkelson  
Craig Parrino  
John "Bud" Plisich

Angela Schedel, Ph.D.  
Brad Schiffer  
Jeffery Schnellmann  
Vince Seijas

### **HURRICANE RESEARCH ADVISORY COMMITTEE MEMBERS NOT PRESENT:**

Joe Belcher  
James Schock, Chairman

David Compton  
Brian Swope

### **STAFF PRESENT:**

Mo Madani  
Thomas Campbell  
Jim Hammers

Justin Vogel  
Chris Howell

### **MEETING FACILITATION:**

The meeting was facilitated by Jeff Blair from Facilitated Solutions, LLC. Consultation, Process Design & Facilitation. Information at: [facilitatedsolutions.org](https://facilitatedsolutions.org)

**Welcome:**

**Time: 1:00 p.m.**

Mr. Blair welcomed everyone to the meeting of the Hurricane Research Advisory Committee.

**Roll Call:**

Mr. Blair performed roll call for the HRAC. A quorum was determined with 8 members present at roll call.

**Agenda Approval:**

Mr. Blair asked for a motion to approve the agenda for March 22, 2021 as posted if there were no changes.

Mr. Seijas entered a motion to approve the agenda as posted. Mr. Ascunce seconded the motion. The motion passed unanimously with a vote of 8 to 0.

**Approval of Minutes for January 28, 2021.**

Mr. Blair asked for a motion to approve the minutes for January 28, 2021 as posted if there were no changes.

Mr. Plisich asked that further clarification be placed in the minutes to state that FEMA does not perform research, they will make recommendations but a PI or other interested party must carry out the actual research.

Mr. Mikkelson entered a motion to approve the minutes of the January 28, 2021 meeting as amended. Mr. Seijas seconded the motion. The motion passed unanimously with a vote of 8 to 0.

Mr. Schnellmann joined the call bringing the quorum to 9 members.

**To Review and Accept the Interim Draft Reports for the following research projects:**

**Wind-Induced Loads on Roof Overhangs:**

Mr. Madani provided a brief introduction and background on this project.

Karim Mostafa, FIU provided a detailed Power Point presentation of the interim report for the research project.

**To Review and Accept the Interim Draft Reports for the following research projects (cont.):**

**Wind-Induced Loads on Roof Overhangs (cont.):**

**Committee Questions/Comments:**

Mr. Schnellmann questioned whether the testing was performed at only 40 MPH.

Mr. Mostafa stated that this was correct.

Mr. Schnellmann stated that it did not seem appropriate for hurricane studies.

Mr. Mostafa explained in detail the testing that was completed in Phase I and due to budget constraints in funding there was no destructive testing completed, however in Phase II this could be included and would carry wind testing at 100 plus mph.

There being no further comments Mr. Blair asked for a motion to accept the interim report for “Wind-Induced Loads on Roof Overhangs”.

Commissioner Schiffer entered a motion to accept the interim report for “Wind-Induced Loads on Roof Overhangs”. Mr. Seijas seconded the motion. The motion passed unanimously with a vote of 9 to 0.

**Updating the Statewide Extreme Rainfall Projections:**

Mr. Madani provided a brief introduction and background on this project.

Dr. Jayantha Obeysekera (Dr. Obey), FIU provided a detailed Power Point presentation of the interim report for the research project.

**Committee Questions/Comments:**

Mr. Seijas stated this should be modeled like the one in Florida with an actual map and contour lines of the area, as this was helpful in making future planning decisions in their district.

Dr. Obey stated yes, this was a very good idea for inclusion.

There being no further comments Mr. Blair asked for a motion to accept the interim report for “Updating the Statewide Extreme Rainfall Projections”.

Mr. Seijas entered a motion to accept the interim report for “Updating the Statewide Extreme Rainfall Projections”. Commissioner Schiffer seconded the motion. The motion passed unanimously with a vote of 9 to 0.

**To review and discuss proposed research topics and make determination regarding which research topic meets the criteria for funding.**

Mr. Blair advised the Committee that this process is to determine if the project meets the criteria for a research project. He stated that the actual ranking and further discussion of the projects will be held at the May meeting. Mr. Blair provided a detailed explanation of the review process for this phase of the projects.

Mr. Madani continued the explanation of this process and advised that this is in accordance with the workplan. He further expanded the discussion on the purpose for the topics today and the importance that the projects meet the criteria.

Mr. Blair advised of the projects to be considered and how the introductions would take place including time limits by the presenters. He advised that each project will have a roll call vote in a manner of a vote in favor or against the project meeting the research criteria.

**FEMA – John Plisich:**

Mr. Plisich provided a brief presentation on the following:

A.) Evaluate the Performance of the Concrete Pile Foundations that Failed During Hurricane Michael to Determine Why They Failed. The Committee voted that this project does meet the criteria with a vote of 9 to 0.

B.) Assess the causes for the widespread asphalt shingle roof covering loss that was observed by the MAT. NOTE: this project was also included with IBHS item 1 and will be covered under FEMA (B). The Committee voted that this project does meet the criteria with a vote of 9 to 0.

C.) Perform Research on Commonly Used Ridge Vent Products to Better Determine the Causes of Ridge Vent Failure and Develop Solutions • NOTE: this project was also included with IBHS item 2 and will be covered under FEMA (C). The Committee voted that this project does meet the criteria with a vote of 8 in favor and 1 against.

D.) Consider Re-evaluating EHPA Criteria and Re-assess Safety of Existing EHPAs, Particularly Those Designed Prior to the 6th Edition FBC (2017). The Committee voted that this project did not meet the research criteria with a vote of 5 in favor and 4 against.

E.) Provide More Specific Criteria with Restrictions on How, When, and Where Roof Aggregate Can be Used. The Committee voted that this project does meet the criteria with a vote of 9 to 0

F.) Study Debris Generation and Strikes to Protective Systems During Hurricanes to Determine Whether the Wind Speed Triggers for the ASCE 7 Wind-borne Debris Region Are Appropriate. The Committee voted that this project did not meet the research criteria with a vote of 6 in favor and 3 against.

**To review and discuss proposed research topics and make determination regarding which research topic meets the criteria for funding (cont.).**

**FEMA – John Plisich: (cont.):**

G.) Evaluate Whether ASTM Testing Requirements for Debris Impacts and Wind Pressures Should be Adjusted. The Committee voted that this project did not meet the research criteria with a vote of 6 in favor and 3 against.

**FIU – Karim Mostafa:**

H.) Wind-Induced Loads on Roof Overhangs – Phase II. There was no vote taken on this project as it met the criteria last FY.

I.) Codification of Wind-Induced Loads on Complex Building Shapes. The Committee voted that this project did not meet the research criteria with a vote of 4 in favor and 5 against.

**IBHS – Dr. Anne Cope/Eric Stafford:**

IBHS PROPOSALS 2 are duplicates of FEMA proposals and are included with their respective FEMA proposals above)

J.) Wind-Driven Rain Intrusion Topic #1 - Identify relative frequency of different causes of water intrusion through fenestrations... The Committee voted that this project does meet the criteria with a vote of 7 in favor and 2 against.

K.) Wind-Driven Rain Intrusion Topic #2 - Investigate the climatology of wind-driven rain to illustrate how expected mean recurrence intervals for rain rates and wind speeds interact. There was no vote taken as this item is covered under the UF (L) proposal.

**UF – Dr. Forrest Masters/Art Degaetano:**

L.) Wind-Driven Rain-Development of Wind-Driven Rain Climatology and Coincidental Wind Speed Return Period Maps for Florida and Adjacent Coast Areas. The Committee voted that this project does meet the criteria with a vote of 8 in favor and 1 against.

**Research Plan:**

Mr. Madani explained the detail of the research plan and the next step is to gain the scope of work and project costs with a deadline of April 30, 2021. He advised the group of presenters to contact universities or interested parties to serve as the PI on the projects for FEMA and IBHS as they do not conduct/perform any of the research within their representation.

**Committee Member Comments:**

Mr. Mikkelson asked if the April 30th deadline has to include budget.

Mr. Madani stated yes.

**Public Comments:** None

Mr. Blair advised the next meeting of the Committee will be on May 18<sup>th</sup> that will include final decisions on the projects to be sent to the Commission at their June meeting.

**Committee Comments:**

Mr. Seijas stated this process provides a good avenue for research.

Mr. Mikkelson asked if the May meeting will be virtual.

Mr. Madani advised yes.

**Adjourn:**

There being no further business before the Committee Mr. Blair asked for a motion to adjourn.

Mr. Mikkelson entered a motion to adjourn. Mr. Seijas seconded the motion. The motion passed unanimously with a vote of 9 to 0 and the meeting was adjourned at 3:21 p.m.