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HOSPITAL BUILDING SAFETY BOARD
Energy Conservation and Management Committee

Thursday, March 16, 2023
10:00 a.m. – 4:00 p.m.

Teleconference Meeting Access:

[HBSB Teams ECM Committee](#)

Access Code: 481-147-085

Committee Members Present

Scott Jackson, Committee Chair
John Griffiths, Vice-Chair
Louise Belair
David Bliss
Deepak Dandekar
Gary Dunger
Michael Foulkes
David Khorram

HCAI Staff Present

Chris Tokas, FDD Deputy Director
Richard Tannahill
Arash Altoontash
Larry Enright
Carl Scheuerman
Jamie Schnick
Nanci Timmins
John Grey

Consulting Member Present

Eric Johnson

HBSB Staff Present

Evett Torres
Veronica Yuke

1 **1. Call to order and Welcome**

2 Scott Jackson, Committee Chair, called the meeting to order on March 16, 2023, at
3 10:00 a.m., and HBSB, Veronica Yuke called roll.

4

2. Roll Call and Meeting Advisories/Expectations

Six members of the Committee present constitute a quorum. There being nine present at the time of roll, a quorum was established.

Ms. Yuke read the public announcement regarding COVID-19, meeting rules and procedures.

3. Aircuity Hospital Applications

Presenter: Dan Diehl, Aircuity Inc.

Mr. Kolsun stated that Aircuity uses accurate IAQ measurements and control to optimize ventilation in healthcare and sustainable building. He explained that Aircuity optimizes air flow by utilizing air quality and operating results in healthcare settings.

Mr. Kolsun said that Aircuity in healthcare apply best in;

- Operating Room Suites
- Infectious Control Suites
- Procedure Rooms
- Pharmacies
- Invitro Centers
- Laboratories

Mr. Kolsun said that Aircuity uses sensors in a central panel to know air quality in a building to optimize ventilation. He mentioned that Particle Sensing was the most important parameter in many healthcare applications.

Mr. Kolsun highlighted that Aircuity enables a Clean Stand-by Mode, where, when the room is unoccupied, it could be turned down to 4 ACH, but with active monitoring to ensure that the room is always clean and ready for use.

Discussion and Input

Mr. Jackson asked if Aircuity system had an impact on the design of room ventilations. Mr. Kolsun replied that it does by getting the right design for the right room.

Mr. Enright asked if Aircuity applied ASHRAE 189.3 code requirement. Mr. Kolsun answered that Aircuity applies codes in their technology.

1 Ms. Belair asked if Aircuity had a value system that gave a picture of the company, like
2 a white paper. Mr. Kolsun answered that he would find out whether there was any
3 available information then get it back to the committee.

4
5 Ms. Belair asked how many Aircuity installations were available in healthcare settings.
6 Mr. Kolsun stated that he would get the number of listings that were available and avail
7 them to the committee.

8
9 **Informational and Action item**

- 10 • None
11

12 **4. Supply Chain and Climate Impacts on Health Care Design and Construction**

13 **Presenter:** John Griffiths, Committee Vice-Chair
14

15 Mr. Griffiths listed the Energy Conservation and Management Committee focus/ goals:

- 16 • Work with CEC to develop mutually agreeable standards for hospital building
17 energy efficiency in 2025 code cycle.
- 18 • Identify HCAI research projects for energy conservation, reduction of carbon
19 footprint, and cost savings while maintaining health and safety.
- 20 • Identify how to collaborate with CMS for implementation Microgrid
21 demonstration project.
- 22 • Pursue indoor air quality at a lesser energy cost for healthcare.
- 23 • Water usage in healthcare environments. Efficiency/Sustainability
24

25 Mr. Griffiths talked about the impacts on climate change

- 26 • Climate Design Temperatures - Equipment failing in the heat and cold waves;
27 are not designed to operate at these temperatures.
- 28 • Sea Level Rise- New and existing projects are being required to meet sea
29 level rise legislation.
- 30 • Drought and Flood Conditions
- 31 • Wildfire Smoke and Poor Air Quality
32

33 Mr. Griffiths discussed the Supply Chain Impacts on Healthcare Construction, Design
34 and Maintenance.

- 35 • Project and maintenance delays, or cancellation

- Temporary workarounds to keep facilities operating.
- Risk by not replacing critical components.
- Facilities use more energy because the current commission install and run them.
- Making items more expensive – reducing scope.
- Use of aftermarket equipment.

Discussion and Input

Dr. Bliss asked if refurbished equipment could be shake table tested, seismic certified to be used. Mr. Schnick replied that CEC 2022 addresses the issue on equipment refurbishment.

Mr. Griffiths asked if CEC 2022 was still awaiting comments. Mr. Schnick answered that there would be a webinar addressing the code changes.

An interested party suggested that HCAI address preventive measures on emergency backup power and climate impacts.

Mr. Schnick said that if a product or equipment were refurbished, the manufacturer would re-label the product as it was originally.

Mr. Jackson mentioned that in old buildings, where there are generators which are not currently manufactured, using refurbished parts in case of a breakdown, repair, or maintenance.

Mr. Griffiths asked if there were code requirements for designing facilities above floodplains and sea level. Mr. Tokas said the code requirements were discussed in chapter 16 but there had to be appropriate protection to accommodate the flood heights as discussed by the site-specific studies.

An interested party asked if the committee was interested in discussing how the code addressed decarbonization. Mr. Jackson answered that the committee discussed issues related to healthcare and healthcare facilities so decarbonization would be up for discussion if it related to healthcare and healthcare facilities.

Mr. Griffiths suggested having a future presentation from the energy commission.

Mr. Jackson concluded that the committee would come up with a simple topic that dealt with climate change affecting HCAI projects to be presented to the Full Board.

1 **Information and Action item**

- 2 • None.
- 3

4 **5. Upcoming topics for future meetings in 2023**

5 **Presenter:** Scott Jackson, Committee Chair

6

7 Mr. Jackson mentioned that upcoming topics for future meetings were:

- 8 • Research applications for Aircuity Inc. in California Universities
- 9 • Code changes that affect Skilled Nursing Facilities
- 10

11 **Discussion and input**

- 12 • None.
- 13
- 14

15 **Information and Action item**

- 16 • None.
- 17

18 **6. Comments from the public/committee members on issues not on this agenda**

19 **Presenter:** Scott Jackson, Committee Chair

20 Mr. Jackson thanked the committee members for their participation and input in the

21 meeting.

22

23 **Discussion and input**

24 Future Energy Conservation and Management Committee meetings:

- 25 • June 22, 2023
- 26 • October 5, 2023
- 27

28 **Information and Action item**

- 29 • None.
- 30

31 **7. Adjournment**

32 Mr. Jackson adjourned the meeting on March 16, 2023, at approximately 12:02 p.m.