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**From:** Hosler, Deirdre Ann (DPS)  
**Sent:** Thursday, August 04, 2016 9:40 AM  
**To:** Riley, Tom (DPS); Gaudet, David J; Sampson, Stephen (DPS); Zemel, Felix (DPS)  
**Cc:** Carley, Stephen (DPS)  
**Subject:** RE: Hoistway venting

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Thanks Tom, Stephen and I will be flagging this accordingly for the review already underway.

Deirdre Ann Hosler  
Deputy General Counsel  
Department of Public Safety

**From:** Riley, Tom (DPS)  
**Sent:** Thursday, August 04, 2016 9:37 AM  
**To:** Gaudet, David J; Sampson, Stephen (DPS); Zemel, Felix (DPS)  
**Cc:** Carley, Stephen (DPS); Hosler, Deirdre Ann (DPS)  
**Subject:** RE: Hoistway venting

**THE USUAL CAUTIONS ARE NOTED HERE wrt NOT VIOLATING THE OML WHILE WE STILL GO FORWARD w/UPDATED, DRAFT 524 CMR CLEANUP / NOTE MR. WALLACK'S COMMENTS SHOULD BE INCLUDED AT THE TIME OF PUBLIC HEARING**

David G, Steve S and Felix Z and all – good morning.

On first blush, Mr. Wallack's views appear "on the money"!!

The current, in force, 8<sup>th</sup> Edition of the MA State Building Code (780 CMR), Chapter 30, Section 3004.1 does expressly require hoistway venting (w/some exceptions) / the current 8<sup>th</sup> Edition of 780 CMR is based on the ICC IBC-09.

The proposed 9<sup>th</sup> Edition of 780 CMR is based on ICC IBC-2015 and as Mr. Wallack has correctly pointed out, in the development of IBC-2015, Chapter 30, Section 3004, in earlier versions of IBC (2009, 2012) titled "Hoistway Venting" has been removed in its entirety from the IBC-2015.

I observe that IBC-2015, Chapter 30 (still titled "Elevators and Conveying Systems") Section 3005 ("Machine Rooms") still does require that where the machine room has openings into a pressurized elevator hoistway, such machine room must also be pressurized (IBC-2015, Section 3005.3).

In the IBC-2015, it appears the only venting of machine rooms and machinery spaces, is when such spaces contain the driving machine; additionally it seems that control rooms and/or control spaces that contain the operation or motion controller, likewise are to be provided with an independent ventilation or air conditioning system to protect against the

overheating of the electrical equipment and where such ventilation system is capable of maintaining the temperature range established for the elevator equipment (IBC-2015, Section 3005.2).

For high rise buildings (IBC-2015, Section 4.7: "Smoke removal") requires natural and/or mechanical ventilation for post-fire smoke removal and any design that is acceptable to the Designer/building owner and is code-complying is acceptable.

What to do???

- (1) Thank Mr. Wallack for his astute assistance!
- (2) See if Mr. Wallack would be willing to take a very brief look at IBC-2015: Section 403 (high rise building impact on elevators); Sections 909.6.3 ("Pressurized stairways and elevator hoistways"); 909.21 ("Elevator hoistway pressurization alternative"); and Chapter 30, Section 3005, inclusive ("Machine rooms") and offer any additional observations wrt hoistway and machine room and machine space ventilation?
- (3) I will essentially do the same thing and recommend to the BBRS that the Fire Prevention Fire Protection (FPFP) Technical Advisory Committee briefly review this matter and report out hoistway, elevator lobby and machine room ventilation requirements.

Mr. Wallack's views appear correct and presently the worst case scenario is we do nothing since the updated 524 CMR default on hoistway ventilation is to the Building Code where, presently it is required to ventilate and in the future appears not to be required (but this is bad Code-writing so if we can collectively clean this up / doesn't seem like that big an issue, then we can strip out the hoistway ventilation requirements and will have make sure we have given correct guidance wrt machine room, machine space and control room and control space ventilation.

Sincerely,

Tom R

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**From:** Gaudet, David  
**Sent:** Wednesday, August 03, 2016 1:22 PM  
**To:** Riley, Tom (DPS)  
**Subject:** FW: Hoistway venting

Tom  
Comment?  
-David

**From:** Peter Wallack  
**Sent:** Monday, August 01, 2016 9:31 AM  
**To:** Dave Morgan (br [mailto:dvmorgan@investor14.com])  
**Cc:** John J O'Donoghue (jodonoghue@investor14.com)  
**Subject:** Hoistway venting

Dave,

As promised attached is the IBC reasons [02\_IBC—Venting] for deleting venting of hoistways, the current 780 draft on elevators and 524CMR draft on "Control of Smoke and Hot Gases" which I had mentioned during the MESA cruise.

If hoistway venting is no longer in the 780 Building Code [ IBC 2015] how does the design professional address the draft 524 section 2.1.4?

Thanks,  
Peter

**Peter Wallack**  
Consultant

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