



CODE CONDUNDRUMS

7 February 2018
6:30pm to 8:00pm

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Tonight's Panel of Experts

Jack Bailey, partner at One Lux Studio

Marty Salzberg, IALD, IES, Independent Lighting Designer

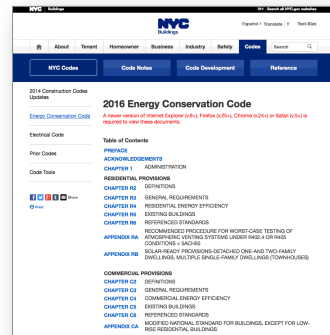
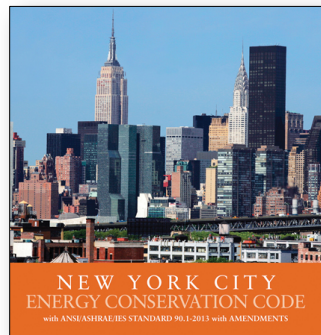
Gina L. Bocra, AIA, LEED Fellow, Chief Sustainability Officer at the New York City Department of Buildings, Technical Affairs Unit

Tonight's Program and Format



You can help us address your concerns by submitting your questions and issues before the program. Please submit your questions and issues regarding the current NYC Energy Conservation Code below, or when you register to attend. Your answers will be anonymous and results will be presented during this program.

[Submit your questions here](#)



DOB Resources

- 2016 NYCECC is online:
<http://www1.nyc.gov/site/buildings/codes/2016-energy-conservation-code.page>
- 1 RCNY §5000-01
- Supporting Documents How-to-Guide (*new!*)
- Frequently Asked Questions
- EnergyCode@buildings.nyc.gov

Other Energy Code Resources

- ASHRAE Interpretations
<https://www.ashrae.org/standards-research--technology/standards-interpretations>
- ICC IECC Code Commentary
- ASHRAE's User Manual

Local Law 32 of 2018

- Mandates that our 2019 Code be based on the NYSERDA Stretch Code, or that it must be at least 20% more energy savings than ASHRAE 90.1-2013. (public comment coming!)
- Mandates that our 2022 Code be based on the NYSERDA Stretch Code
- Mandates that our 2025 Code set maximum EUI targets for new buildings and major renovations of existing buildings

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4. Section C405.4.2(2) Interior Lighting Power Allowances: Space By Space Method- Guestrooms are exempt from the space by space method if they meet the requirement of R404.1 which indicates "Not less than 75% of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75% of the permanently installed lighting fixtures shall contain only high efficacy lamps or the lighting is low voltage type. If Guestroom lighting is not exempt the maximum allowable wattage in guestroom is 0.47 watts per square foot. I don't see how it would be at all possible to design a guestroom to 0.47 watts per square foot without high efficacy lighting or low voltage lighting and therefore I believe the requirement should just be to comply with R404.1 as the allowance is deceiving.

5. How should temporary lighting in “future tenant” spaces be handled (ie minimum number of cheap utility lights are placed in an unfitted ground level retail space), where the future tenant lighting will be filled under separate permit later! We have received the following ways handle it...
- You count the square footage and temporary fixtures in ComCheck reports, call the space “retail”, but it throws the projects final LPD out of wack due to the unused watts.
 - A plan checker forced us to determine the maximum number of fixtures based a retail spaces LPD, and show this number fixtures (symbols) on the RCP – they also requested we include a note stating the “maximum wattage for future retail lighting in the space is XXX watts”. But, what if the future tenant is not retail... it could be medical, gym, dining, theater... all of which have higher LPD, and does not include the additional decorative allowance.

13. Can some of the additional lighting power (such as decorative) be on emergency circuit? If we want to leave decorative fixtures on overnight, they cannot be counted in the additional allowance, correct?

offs among spaces and subspaces are permitted, provided that the total installed interior lighting power does not exceed the interior lighting power allowance.

9.6.2 Additional Interior Lighting Power. When using the Space-by-Space Method, an increase in the interior lighting power allowance is allowed for specific lighting functions. Additional power shall be allowed only if the specified lighting is installed and automatically controlled, separately from the general lighting, to be turned off during nonbusiness

hours. This additional power shall be used only for the specified luminaires and shall not be used for any other purpose unless otherwise indicated.

An increase in the interior lighting power allowance is permitted in the following cases:

- For spaces in which lighting is specified to be installed in addition to the general lighting for the purpose of decorative appearance or for highlighting art or exhibits, provided that the additional lighting power shall not exceed 1.0 W/ft^2 of such spaces
- For lighting equipment installed in sales areas and specifically designed and directed to highlight merchandise, calculate the additional lighting power as follows:

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16. Please explain the changes to control requirements in ASHRAE Table 9.6.1 for Manual On OS vs. Partial ON OS for enclosed offices less than 250 sf., classrooms/lecture/training and lounges/employees break rooms.

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14. I think there is language on the code saying lighting for life safety can be exempt, but I cant find it. The lighting requirement for swimming pool and pool deck is very high and can this lighting be exempt? Do the lights have to be on a separate circuit?

15. Why does NYC require occupancy sensors for Open Offices using the ASHRAE compliance path to be Partial Automatic ON but allow Full ON OS using the IECC/NYC path?

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1. Section C405.2.2.1 Time-switch control function, requires that the time clock system “5. Include an override switch that complies with the following: 5.1 The override switch shall be a manual control.” In several instances I would have preferred an automatic override only (overhead motion sensors) and I am not sure why an automatic override for timeclock control would not be acceptable to the city.

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2. Section C405.2.1 Occupant sensor controls, requires that the occupancy sensor “3. Shall incorporate a manual control to allow occupants to turn off the lights”. In restrooms I would prefer overhead motion sensors only for sanitary reasons (automatic on permitted in restrooms by code) and am not sure why that would not be acceptable to the city.

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3. Section C405.2.3 Daylight-responsive controls. Areas where an automatic shutoff would endanger occupant safety or security and shops and laboratory classrooms are not required to have time switch controls or motion sensors controls (they are exempt from those code requirements) but they are required to have daylighting controls. I recently worked on a large machine shop project where daylighting controls were code required throughout. I believe that to be inappropriate, I think daylighting controls should be exempt in the aforementioned areas.

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6. Can you please clarify the “Fixture Schedule” requirement for code compliance documents? This is in NOT a lighting specification, but a summary of each fixtures system load, source, and device type, etc... as referenced in ComCheck Reports. (Your learning module shows photometry in the schedule example, and your guide shows mnfrs model number.)
- a. Why are we being asked to include total number of fixtures, when the ComCheck report tallies the fixture counts

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7. EN sheets in DOB issue vs CD issue drawing sets.... Are EN sheets to be included in final CD issues?

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8. When are "Post Approval Amendments" required?

9. Which documentation method is most received by the DOB.... Tabular or ComCheck?

10. Are spaces designated “24/7 for safety and security” still required to have a override or manual off control?

11. What “Frequently Asked Question” on lighting does the DOB received? Is there a system to review FAQ’s?

12. In spaces that require daylight responses control and also include decorative fixtures... since the decorative fixture are already on a separate control, do the decorative fixtures also required to be on an additional daylight responsive control?

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17. What are the controls required in a pre-school classroom? and: For Alterations, does NYC believe that the exemptions are equivalent between ASHRAE and the IECC/NYC path, specifically the ASHRAE threshold of 20% of connected power vs the IECC/NYC threshold of 20% of fixtures?

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18. When will new Energy Code be released? What revisions are expected?

Thank You

A video recording will be available to view on the IESNYC website
to members only.