

**TC 2.3 - Gaseous Contaminants/Removal Equipment**  
**Chapter 11 - Air Contaminants in Fundamentals Handbook**  
**Handbook Sub-Committee – Austin, TX**

**Minutes**

July 7, 2020

1400-1500 EDT

- Meeting called to order 2:00 PM
- No liaisons present
- Tori will be taking notes
- Final version G2 was sent out on Sunday
- Gemma reviewed G1 a few days ago and has some small and editorial changes, some of which are listed below. She will send these out to Brian for inclusion in the chapter.
  - Acronym section: DNA needs its definition corrected, HEPA (arrestance or air or both?) arrestance (air), UV ultra violet only not light no hyphen
  - Classes of air contaminants section: Special contaminants listed changed, title non industrial needs to be updated to match title header listed in corresponding section below
  - Figure 1: caption, should take out question mark above figure 1, refers to ultra fines not nanoparticles therefore it should be moved, correction will be sent. Engineered ultra-fines separate paragraph
  - Figure 4: This is an adapted figure therefore should not need permissions and change language to signify that it was adapted
    - Tori will contact Heather to say permission will no longer be necessary
  - Page 12 Pollen: if we have a 2015 reference do we really need the 1977 Jacobson reference, no probably not can be dropped
  - PCR: there are some repeats, just need to delete the replicated information
  - Page 17 harmful effects: another section with a repeat, just need to choose what one we want to keep
  - Table 7 and 8 write up about limits. Measurement of gaseous contaminants two reference queries that need to be addressed
  - SVOCs: first paragraph, hanging “because” that needs to be completed, something doesn’t quite read right
  - Inorganic CO<sub>2</sub>: CO<sub>2</sub> in outdoor air is probably higher than what is put into the current chapter revision, 415 was suggested as the correct current OA concentration, Brian said he would investigate. 450 was suggested by Gemma
  - CO section in out door parking garages: automobiles to vehicles language change
  - Page 30: need to remove a “because” from text
  - Page 31: floor dust, reference that quotes TVOC and particles in ppm which is not the correct units for either reference
  - Chang-Seo VOC and SVOC guideline 27, Gemma will follow up
- Caitlin commented about Table 14: SO<sub>2</sub> is listed but should we remove it because of dated resource and it not being relevant or an issue? Consensus was it seems appropriate to remove it.

- Caitlin will send OSHA and ACGIH references to Brian.
- The chapter was deemed acceptable with the small changes and the following recommendation is made to the TC:

**At the 7/7/2020 meeting of the Handbook Subcommittee the chapter for the 2020 Fundamentals Handbook entitled “Air Contaminants” was approved. The Handbook Subcommittee is recommending that a vote be taken at the main TC meeting to accept the approval of the subcommittee and that the chapter be forwarded to ASHRAE for publication.**

- Chapter 47, Removal Equipment, and chapter 11, Air Contaminants, needs leads: Mike and Gemma volunteered to be heads for these chapters, respectfully.
- Brian volunteered to continue to be the handbook subcommittee chair. He will also be the liaison for chapter 47.
- The meeting closed 2:36PM

DRAFT