

Interactive comment on “Comparison of Polycyclic Aromatic Compounds in Air Measured by Conventional Passive and Passive Dry Deposition Samplers and Contributions from Petcoke and Oil Sands Ore” by Narumol Jariyasopit et al.

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Page 2 lines 87-88: Please provide technical definitions of the two different petcoke.

This text will be added to the manuscript.

“There are two major types of coking in the AOSR referred to as “delayed” and “fluid” coking processes. Both coking processes involve thermal cracking of the feedstock to extract lighter products and leave behind petcoke. In the delayed coking process, the cracking process continues, after a short thermal cracking in a furnace, in coke

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drums where solid coke is produced. In the fluid coking process, the coke produced in a heated reactor is circulated between the reactor and a burner to transfer heat. The delayed coking process occurs at lower temperature than the fluid coking process, therefore, the delayed petcoke contains more volatiles and potentially more PACs than the fluid petcoke.

Figure 3 Panel A: change instances of “PHE/ANT” to perhaps “PHE + ANT” in order to prevent confusion with regards to compound ratios.

We will change PHE/ANT to PHE + ANT and FLA/PYR to FLA+PYR in the figure and the manuscript.

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