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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Mercury transformation and speciation in flue gases from anthropogenic emission sources: a critical review" *by* L. Zhang et al.

Anonymous Referee #1

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In this review article, the authors have conducted a thorough discussion about the current knowledge of mercury transformation and speciation in flue gases from varied anthropogenic emission sourcesïijŇ including coal-fired power plantsïijŇcoal-fired boilers, non-ferrous smelting, cement production, iron and stell production, boimass buring and MSW incineration. They summarized the mercury speciation for different source with varied APCDs control. The review will help to better understand the atmospheric emissions of Hg and its speciation from different anthropogenic sources in the world.

Overall, this article is well organzied and written in English. I recommend it to be published after made several minor revisions .

1. In the section of non-ferrous smelting, I suggest some more discussion about mercury use and emission from golden smelting should be added; 2. Except for sources associated with combustion or high temerature industrial process, additional discussion and summary for some other Hg emission source are suggested to be added to make the critical review more complete and integrated.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 32889, 2015.