Atmos. Chem. Phys. Discuss., 9, C11518–C11519, 2010
www.atmos-chem-phys-discuss.net/9/C11518/2010/

Atmospheric Chemistry and Physics Discussions

Interactive comment on "Uncertainties in estimating mercury emissions from coal-fired power plants in China" *by* Y. Wu et al.

Y. Wu et al.

ywu@tsinghua.edu.cn

Received and published: 15 March 2010

Response to the Reviewer #2's Comments: 1. We have discussed the recent activities and outcome from Hg measurement in China, and also compared the results with the U.S. test data, see pages 7-8. The Chinese test data are the key input to define the distribution curve of control technology ESP. This paragraph was revised for a better understanding; see lines 27-29 on page 7. For the comment about whether currently available data can reduce the uncertainty or not, please refer to our response to Reviewer #1's comment 5; also see lines 3-17 on page 13. 2. A statement about "higher Hg concentrations in ambient air in remote areas in China versus other remote areas in Europe and North America" and four new references were added according to the reviewer's comment; see lines 28-31 on page 2 and line 1 on page 3, and new

references on pages 14-16. 3. We provided a comparison of the average share of Hg0 to total Hg of 6 Chinese test samples with 18 US samples. The share of Hg0 is 26% ($\pm$15%) on average for the outlet of ESPs tested in US, while such ratio increases to 48% ($\pm$11%) on average for Chinese boilers. We added the data sources, in case the readers want to get such raw measurement data. See lines 30-31 on page 8, and lines 1-3 on page 9. 4. The reference Ni et al. 1998 was changed to Feng et al. 2002 according to the reviewer's comment.

Please also note the supplement to this comment:
http://www.atmos-chem-phys-discuss.net/9/C11518/2010/acpd-9-C11518-2010-supplement.pdf

---

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 23565, 2009.

Full Screen / Esc
Printer-friendly Version
Interactive Discussion
Discussion Paper