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Mary Paxton, Ph.D.

American Petroleum Institute

1220 L Street, NW

Washington, DC 20005-4070

Re: Review of the Chinese benzene study

Dear Mary:

At your invitation, I have prepared an outline proposal for a critical review of the Chinese benzene study. The primary focus of the review is the relationship between benzene exposure and leukemia mortality. As discussed over the telephone, although the primary interest is on the most recent paper by Hayes et al. in the *Journal of the National Cancer Institute*, I feel strongly that it is necessary to review all papers generated from the Chinese benzene study (both the original "pre-NCI" cohort as well as the expanded cohort). At this time I have identified the following papers:

1. Yin et al. (1987) *Brit J Ind Med* 44:124-128,
2. Yin et al. (1987) *Brit J Ind Med* 44:192-195,
3. Wu (1988) *J Occup Med* 30:968-974,
4. Li et al. (1988) *Progress in Occupational Epidemiology* pp. 169-171,
5. Yin et al. (1989) *Environ Health Perspect* 22:207-213,
6. Yin et al. (1994) *Am J Ind Med* 26:383-400,
7. Dosemeci et al. (1994) *Am J Ind Med* 26:401-411,
8. Travis et al. (1994) *Leukemia and Lymphoma* 14:91-102,
9. Yin et al. (1996) *Am J Ind Med* 29:227-235,
10. Rothman et al. (1996) *Am J Ind Med* 29:236-246,
11. Yin et al. (1996) *Environ Health Perspect* 104(suppl. 6):1339-1341,
12. Dosemeci et al. (1996) *Environ Health Perspect* 104(suppl. 6):1343-1347,
13. Hayes et al. (1996) *Environ Health Perspect* 104(suppl. 6):1349-1352,
14. Linet et al. (1996) *Environ Health Perspect* 104(suppl. 6):1353-1364,
15. Rothman et al. (1996) *Environ Health Perspect* 104(suppl. 6):1365-1370, and
16. Hayes et al. (1997) *JNCI* 89:1065-1071.

The review will include a discussion or critique of the following:

- nature and characteristics of the cohort,
- quality of follow-up data,
- reporting/ascertainment bias,
- comparison rates,
- concomitant exposures,
- exposure assessment,
- quality of diagnostic accuracy,
- statistical analyses, and
- comparison between the original "pre-NCT" cohort and the expanded cohort.

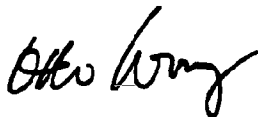
I estimate that it will take approximately 80 to 100 hours of my time to complete the review. My hourly rate for this proposal is \$250. Other expenses will include a few hours of a research assistant's time (hourly rate of \$85), literature retrieval, copying, postage, express mail, and long-distance calls. I propose to invoice API monthly on a time-and-material basis.

In terms of schedule, I estimate the project will take approximately 10 weeks. A final report summarizing the review will be submitted to API at the end of the project.

If you have any questions regarding this proposal, please let me know.

Sincerely yours,

Applied Health Sciences, Inc.
by:



Otto Wong, Sc.D., F.A.C.E.
Chief Epidemiologist

cc: David Mongillo