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August 23, 1994

Dr. Hasmukh Shah
Vinyl Chloride Panel
Chemical Manufacturers Association
2501 M. Street, N.W.
Washington, DC 20037

**SUBJECT: PRESENTATION OF A PB-PK MODEL FOR VINYL CHLORIDE DESIGNED
TO BE USED IN RISK ASSESSMENT TO EPA
PROPOSAL # CL2-652**

ChemRisk®, a division of McLaren/Hart Environmental Engineering Corporation (McLaren/Hart) is pleased to submit this proposal to the Chemical Manufacturers Association Vinyl Chloride Panel (CMA/VCP). This proposal is based on conversations between Dr. Hasmukh Shah and Dr. Richard H. Reitz in which Dr. Shah informed Dr. Reitz that CMA/VCP would like him to present his ideas for utilizing a physiologically-based pharmacokinetic (PB-PK) model for vinyl chloride (VC) to the Environmental Protection Agency on October 6th at the CMA offices in Washington, DC.

ChemRisk understands that CMA/VCP intends to invite other scientists interested in vinyl chloride toxicity to Washington to participate in this meeting as well as the members of the Vinyl Chloride Panel. ChemRisk further understands that CMA/VCP wishes to have Dr. Reitz participate in a "pre-meeting" the morning of October 6th to discuss strategy and give a "dry run" prior to the presentation to EPA on the afternoon of October 6.

SCOPE OF WORK

ChemRisk will provide services to CMA/VCP on a time and materials basis. The project will involve three tasks: (1) Preparation of the presentation, (2) Presentation of the research results to CMA/VCP

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(premeeting) and EPA (regular meeting), and (3) follow up activities with CMA/VCP and/or EPA on behalf of CMA/VCP. The estimated time required for each task is listed in the cost estimate below. CMA/VCP will receive an invoice from ChemRisk for the services rendered in the month following completion of the two tasks as outlined in the General Terms and Conditions contract attached to this proposal.

COST ESTIMATE

This cost estimate is based on the assumption that Dr. Reitz will need to modify the presentation which he made to CMA/VCP. These modifications will be based on conversations with Dr. Shah and/or members of the VC panel. However, we are assuming that substantial modifications (i.e. taking more than 8 hrs to accomplish) will not be necessary for this project. We have also assumed that interactions with CMA/VCP or EPA on CMA/VCP's behalf will not consume more than two hours of Dr. Reitz's time following the meeting in Washington.

Based on these assumptions, the total charges to CMA/VCP will be in a lump sum not to exceed \$4,500. If CMA/VCP wishes Dr. Reitz to undertake additional activities on their behalf, a Change Order will be written and approved by CMA/VCP prior to initiation of those activities.

We understand that CMA/VCP may wish to use a contractual form slightly different from the standard ChemRisk contracts attached to this proposal (as was that case with ChemRisk's contract with the Chlorine Chemistry Council). ChemRisk is willing to accept alternate contracts which are not substantially different from those attached to this proposal. Pending final agreement on the exact form of the contract, activities may be commenced upon receipt of the letter of authorization from CMA/VCP to ChemRisk referring to this proposal and authorizing us to proceed on your behalf. (CMA/VCP may wish to contact Dr. James Gibson for details as to how the contract between ChemRisk and CMA/CCC was developed.)

McLaren/Hart appreciates the opportunity to be of service to CMA/VCP. Should there be any questions regarding the elements of this proposal, please contact Dr. Reitz directly at (517) 631-7089.

Sincerely,

Michael L. Geyer
FOR R. REITZ

Richard H. Reitz, PhD, DABT
Principal Health Scientist
McLaren/Hart, ChemRisk Division



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PROJECT AUTHORIZATION FORM

Dr. Hasmukh
Vinyl Chloride Panel
Chemical Manufacturers Association
2501 M. Street, N.W.
Washington, DC 20037

ChemRisk® is hereby authorized to provide professional services as defined in McLaren/Hart Proposal No. CL2-652, presentation of a PB-PK model for vinyl chloride designed to be used in risk assessment to EPA.

All work will be performed in accordance with the scope of work as defined in McLaren/Hart Proposal CL2-652, dated August 23, 1994, and the General Terms and Conditions (Form C-5) and the Firm-Fixed-Price and Lump-Sum Agreements provided as attachments to this proposal.

Agreed-to **not to exceed** price: \$4,500.00

AUTHORIZATION TO PROCEED:

Name

Title

Representing

Address

Date

Signature



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