

## MEMORANDUM

**TO:** Winston H. Hickox  
Agency Secretary

**FROM:** Joan E. Denton, Ph.D.  
Director

**DATE:** October 23, 2000

**SUBJECT:** ADOPTION OF TECHNICAL SUPPORT DOCUMENT, EXPOSURE  
ASSESSMENT AND STOCHASTIC ANALYSIS

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In accordance to Health and Safety Code, Section 44300 *et seq.* (The Air Toxics Hot Spots Information and Assessment Act, AB 2588, Connelly, as amended by SB 1731, Calderon), the Office of Environmental Health Hazard Assessment (OEHHA) hereby adopts the *Air Toxics Hot Spots Program Risk Assessment Guidelines Part IV: Technical Support Document; Exposure Assessment and Stochastic Analysis*.

OEHHA is mandated to develop risk assessment guidelines, which will be used by State and local agencies to implement the Air Toxics Hot Spots program. Development of these guidelines is proceeding in stages. There are four technical support documents describing the scientific basis for: acute RELs, chronic RELs, cancer potency factors, and exposure assessments. The fifth document is a guidance manual based on the four technical support documents. All four technical support documents have undergone the public review and peer review stages and are now complete.

This document on exposure assessment and stochastic analysis is the fourth document that has completed the peer review stage and been adopted.

The document describes the technical information used to develop distributions of values for key exposure parameters, and point estimates for those values. In addition, the document describes air dispersion modeling. Recommendations are provided in the document for evaluating chronic exposures to airborne substances and includes a multipathway component for chemicals with long environmental half-lives, and potential to contaminate soil and water via deposition. An External Advisory Group composed of representatives from industry, environmental organizations, State and local air pollution agencies, the U.S. Environmental Protection Agency, and University of California scientists was formed in the early stages of

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developing this document for early stakeholder input. This document underwent internal peer review, two public workshops, and two public comment periods. The document was peer reviewed by the Scientific Review Panel on Toxic Air Contaminants, and was discussed at their meetings in March 1997, and March and July 2000. At its July 17, 2000 meeting, the Panel endorsed the document and the recommendations contained therein. The final document incorporates changes in response to the Panel's comments and will be available on our Web site.

For your information I have attached the Table of Contents, Executive Summary, and Introduction to the document. Should you have any questions or would like a copy of the entire document, please call me at (916) 322-6325.