

HUDSON RIVER PCBs
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- P. 800074 - Report: Hudson River Angler Survey, A Report on
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- P. 800207 - Report: Report on Peer Review Workshop on PCBs:
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- P. 800366 - Report: Risk-Based Approach for PCB's Fish
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- P. 800410 - Press Release: From the Commissioner, Health
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- P. 800412 - Facsimile to Ms. Alison A. Hess, U.S.
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- P. 800555 - Report: Use of Epidemiology and Clinical
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- P. 800578 - Fact Sheet: Hazardous Substance Fact Sheet,
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- P. 800994 - Report: Mortality Among Workers Exposed to
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Bureau of Biostatistics and Computer Applications, Food Directorate, Health Protection Branch, Health Canada; J.R. Tanner, Toxicology Research Division, Bureau of Chemical Safety, Food Directorate, Health Protection Branch, Health Canada; E. Wrenshall, Toxicology Research Division, Bureau of Chemical Safety, Food Directorate, Health Protection Branch, Health Canada; J. Mes, Food Research Division, Bureau of Chemical Safety, Food Directorate, Health Protection Branch, Health Canada; S. Fernie, Toxicology Research Division, Bureau of Chemical Safety, Food Directorate, Health Protection Branch, Health Canada; H. Tryphonas, Toxicology Research Division, Bureau of Chemical Safety, Food Directorate, Health Protection Branch, Health Canada; S. Hayward, Bureau of Biostatistics and Computer Applications, Food Directorate, Health Protection Branch, Health Canada; and S. Malcolm, Bureau of Biostatistics and Computer Applications, Food Directorate, Health Protection Branch, Health Canada; prepared for Food and Chemical Toxicology, January 6, 1995.

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- P. 801141 - Letter to Mr. Bryan Olson, Waste Management
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Doc ID# 68685 Harvard School of Public Health, Department of

Environmental Health, Environmental Science & Engineering Program; Ms. Alison C. Cullen, Harvard School of Public Health, Department of Environmental Health, Environmental Science & Engineering Program and University of Washington, the National Research Center for Statistics and the Environment, Graduate School of Public Affairs; Ms. Larisa M. Altshul, Harvard School of Public Health, Department of Environmental Health, Environmental Science & Engineering Program, prepared for Environmental Science and Technology, 1997.

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- P. 803120 - Fact Sheet: Should I Eat the Fish I Catch, A
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Inc.; M.J. Brunner, Battelle Laboratories; S.B. Hamilton, General Electric Company; T.M. Sullivan, Battelle Laboratories; A.C. Peters, Battelle Laboratories; M.J. Ryan, Battelle Laboratories; J. D. Toft, Battelle Laboratories; A.W. Singer, Battelle Laboratories; J.F. Brown Jr., General Electric Corporate Research & Development; R.G. Menton, Battelle Laboratories; and J.A. Moore, Institute for Evaluating Health Risks, prepared for Toxicological Sciences, 1998.

- P. 803139 - Report: Evaluating Risk Communication: Examining
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Division of Toxicology, Department of Food
Technology and Nutritional Sciences, Wageningen
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Matthew P. Longnecker, National Institute of
Environmental Health Sciences; Ms. Linda S.
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National Health and Environmental Effects Research
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Center, School of Medicine and Biomedical
Sciences, University of Buffalo; Mr. Jack Moore,

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- P. 803290 - Report: Summary Report for the Expert Panel Review
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- P. 803374 - Report: Aroclor 1242 Inhalation and Ingestion by
803405 Sprague-Dawley Rats, prepared by Ms. Ann Casey, School of Public Health, University of Albany and St. Regis Mohawk Tribe Environmental Division; Mr. David F. Berger, Department of Psychology, State University of New York at Cortland, Mr. John P. Lombardo, Department of Psychology, State University of New York at Cortland, Ms. Anne Hunt, Department of Counseling Psychology, University of Albany; Mr. Fred Quimby, Department of Veterinary Pathology, Cornell University, prepared for Journal of Toxicology and Environmental Health, 1999.

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803433 by James Coglian, Ph.D., Chief, Quantitative Risk Methods Group, National Center for Environmental Assessment, U.S. EPA, facsimile date March 6, 2000.

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- P. 803434 - Agenda: Colloquium on Approaches to Quantifying
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- P. 803443 - Letter to Interested Party, from Ms. Suzanne K.
803510 Gordon, Assistant Commissioner, Bureau of Environmental Health Assessment, Executive Office of Health and Human Services, Massachusetts Department of Public Health, re: Report by panel of experts on the public health effects and science of PCBs, October 18, 2000. (Attachment: Report: Information Booklet for the Meeting

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Summary of the Expert Panel on the Health Effects of Polychlorinated Biphenyls (PCBs), prepared by the Bureau of Environmental Health Assessment, Massachusetts Department of Public Health, funding from the Executive Office of Health and Human Services, Massachusetts Department of Public Health and the Agency for Toxic Substances and Disease Registry, October 2000.)

- P. 803511 - Report: Appendix G, CAS Registry Number Index,
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- P. 803521 - Report: Application of Probabilistic Methods to
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- P. 803541 - Report: Chronic Toxicity of Aroclor Mixtures
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- P. 803566 - Report: Mortality and Industrial Hygiene Study of
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- P. 803576 - Report: PCBs Fish Level Advisories. (Attachments:
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8.3 Correspondence

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- P. 803588 - Letter to Mr. Donald Clay, Assistant
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- P. 803596 - Letter to Colleagues, from Mr. Clyde Houseknecht,
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- P. 803598 - Letter to Mr. Douglas J. Tomchuk, Remedial Project
803760 Manager, Emergency and Remedial Response Division,
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of Delaware, August 11, 1994. (Attachments: (1)
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- P. 803761 - Letter to Mr. Douglas J. Tomchuk, Remedial Project
803812 Manager, Emergency and Remedial Response Division,

U.S. EPA, Region II, from Mr. John G. Haggard, Engineering Project Manager, GE Corporate Environmental Programs, General Electric Company, re: Information relating to Hudson River Risk Assessment Issues, February 10, 1995.

(Attachments: (1) Report: Estimating Consumption of Freshwater Fish among Maine Anglers prepared by Ms. Ellen S. Ebert, ChemRisk Division, McLaren/Hart Environmental Engineering Corp.; Ms. Natalie W. Harrington, ChemRisk Division, McLaren/Hart Environmental Engineering Corp.; Mr. Kevin J. Boyle, University of Maine, Mr. James W. Knight, Gradient Corp.; Mr. Russell E. Keenan, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for North American Journal of Fisheries Management, 1993; (2) Report: Selection of Fish Consumption Estimates for Use in the Regulatory Process, prepared by Ms. Ellen S. Ebert, ChemRisk Division, McLaren/Hart Environmental Engineering Corp.; Mr. Paul S. Price, ChemRisk Division, McLaren/Hart Environmental Engineering Corp.; Mr. Russell E. Keenan, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for Journal of Exposure Analysis and Environmental Epidemiology, 1994; (3) Report: The Effect of Sampling Bias on Estimates of Angler Consumption Rates in Creel Surveys, prepared by Mr. Paul S. Price, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., Mr. Steve H. Su, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., Mr. Michael N. Gray, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for Journal of Exposure Analysis and Environmental Epidemiology, 1994.)

P. 803813 - Memorandum (w/ attachments) to Ms. Marian Olsen,
803845 Emergency and Remedial Response Division, U.S. EPA, Region II, through Mr. Kevin Garrahan, Chief, Exposure Assessment Group, Exposure Assessment Applications Branch, U.S. EPA, from Ms. Jackie Moya, Exposure Assessment Group, U.S. EPA, re: Review of ChemRisk January 1995 Reports on the Hudson River Risk Assessment, March 13, 1995.

Doc ID# 68715

P. 803846 - Memorandum to Mr. Jeff Bigler, Standards & Applied
803849 Science Division, Office of Science & Technology, Office of Water, U.S. EPA, from Ms. Helen Jacobs,

Doc ID# 68716

U.S. EPA, re: National Estimates of Fish Consumption by Individuals - Combined CSFII Data, March 20, 1995 (Attachments: Tables: Average Daily Per Capita Estimates of Fish Consumption.)

P. 803850 - Memorandum to Mr. Tim Barry, Office of Policy,
803851 Planning and Evaluation, U.S. EPA, and Mr. Paul White, Office of Research and Development, U.S. EPA, from Ms. Marian Olsen, Technical Support Section, U.S. EPA, Region II, re: Review of Proposed Plan for Micro-Exposure Risk Assessment for Upper Hudson River Project by ChemRisk, May 15, 1995.

Doc ID# 68717

P. 803852 - Memorandum to Ms. Marian Olsen, Technical Support
803855 Section, U.S. EPA, Region II, from Ms. Karen A. Hammerstrom, Environmental Scientist, Office of Research and Development, National Center for Environmental Assessment, U.S. EPA, re: Review of Proposed Plan for Micro-Exposure Risk Assessment for Upper Hudson River Project by ChemRisk, June 1, 1995.

Doc ID# 68718

P. 803856 - Letter to Mr. Kevin Garrahan, Chief of the
803857 Exposure Assessment Branch, National Center for Environmental Assessment, U. S. EPA, Ms. Jackie Moya, National Center for Environmental Assessment, U.S. EPA, and Barbara Beck, Ph.D., Gradient Corporation, from Russell E. Keenan, Ph.D., National Director, ChemRisk Division, Chief Health Scientist--Managing Principal, re: Interest in obtaining the raw data files and the associated documentation for the state-wide angler survey, July 11, 1995.

Doc ID# 68719

P. 803858 - Report: Rensselaer County Environmental Management
803860 Council's Comments on Catch and Release Fishing on the Upper Hudson, prepared by Mr. Ken Duffy, Executive Director, Rensselaer County Environmental Management Council, July 17, 1995.

Doc ID# 68720

P. 803861 - Report: Consumption of Freshwater Fish by Maine
803935 Anglers and Related Issues, prepared by Ms. Natalie W. Harrington, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., Mr. Russell E. Keenan, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for U.S. EPA, Region II, September 21, 1995.

Doc ID# 68721

P. 803936 - Letter to Section 8(e) Coordinator, Document
803938 Processing Center (7407), Office of Toxic
Substances, U.S. EPA, from Mr. Stephen B. Hamilton
Manager, Environmental Science and Technology,
Doc ID# 68722 Corporate Environmental Programs, General Electric
Company, re: Preliminary results from a chronic (2
year) feeding study in Sprague-Dawley rats,
October 10, 1995.

P. 803939 - Letter to Mr. Douglas J. Tomchuk, Remedial Project
803960 Manager, Emergency and Remedial Response Division,
U.S. EPA, Region II, from Mr. John G. Haggard,
Engineering Project Manager, GE Corporate
Doc ID# 68723 Environmental Programs, General Electric Company,
re: Utilization of PCB Toxicity Information,
January 25, 1996. (Attachment: Partial Settlement
Agreement (w/ attachment), In the United States
District Court for the District of Columbia,
Consolidated Case No. 93-0694 RMU, Amerian Forest
and Paper Association, Inc., Plaintiff, v. U.S.
EPA, Defendant, General Electric Company,
Plaintiff, v. U.S. EPA, Defendant, and Ms. Carol
M. Browner, Administrator, Defendants, November 7,
1995.)

P. 803961 - Letter (w/ attachments) to Mr. Kevin Garrahan,
803977 Chief, Exposure Assessment, U.S. EPA, from Russell
E. Keenan, Ph.D., Vice President, Chief Health
Doc ID# 68724 Scientist, ChemRisk Division, McLaren/Hart
Environmental Engineering Corp., and Ms. Natalie
W. Harrington, Senior Associate Health Scientist,
ChemRisk Division, McLaren/Hart Environmental
Engineering Corp., re: results of additional Maine
angler survey analyses, March 1, 1996.

P. 803978 - Letter to Ms. Susan Brager, ERG, from Mr. James A.
803979 Moore, President, Institute for Evaluating Health
Risks, re: Participation in peer review workshop,
Doc ID# 68725 May 13, 1996.

P. 803980 - Report: Social and Economic Impacts of Catch-
803982 and-Release Fishing on the Hudson River: a
Workshop, prepared by Office of the Hudson River
Doc ID# 68726 Foundation, June 12, 1996.

P. 803983 - Letter to Ms. Judith Schmidt-Dean, from Mr. John
803984 P. Cahill, Commissioner, New York State Department
of Environmental Conservation, re: Testimony on
Doc ID# 68727

the economic aspects of the Hudson River, December 29, 1997.

- P. 803985 - Press Release: Largest Human Study Finds No Link
803988 Between PCB Exposure and Cancer Mortality,
prepared by Institute for Evaluating Health Risks,
March 10, 1999.
Doc ID# 68728
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- P. 803989 - Letter (w/ attachment) to Interested Party, from
803991 Mr. Mark Van Deusen, Outreach Unit, New York State
Department of Health, re: 1999 Draft Health
Consultation report for Hudson River PCBs Site,
March 1999.
Doc ID# 68729
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- P. 803992 - Press Release: Hudson River PCB Research Project
803992 Announced, prepared by DOH News, New York State
Department of Health,
http://www.health.state.ny.us/nysdoh/commish/99/pcb.htm, April 23, 1999; printed January 17, 2001.
Doc ID# 68730
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- P. 803993 - Email to Research Brief List, from
803995 Inhof.Christina, National Institute of
Environmental Health Sciences, National Institute
of Health, re: NIEHS/EPA Superfund Basic Research
Program "Research Brief" - Number 49, June 30,
1999.
Doc ID# 68731
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- P. 803996 - Report: Letters to the Editor, prepared by Journal
804002 of Occupational and Environmental Medicine,
September 1999.
Doc ID# 68732
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- P. 804003 - Letter to Mr. James F. Warchall, Sidley & Austin,
804018 from William H. Farland, Ph.D., Director, Office
of Research and Development, National Center for
Environmental Assessment, U.S. EPA, re: Freedom of
Information Act Request: HQ-RIN-01093-00, April 7,
2000. (Attachments: (1) Indices of material
responsive to Sidley & Austin FOIA request (HQ-
RIN-01093-00; (2) Memorandum to Dr. James
Cogliano, National Center for Environmental
Assessment, U.S. EPA, from M. Harnois,
Massachusetts Department of Environmental
Protection, re: Research Report on PCBs by R.
Kimbrough (JOEM 41:161, 1999), March 23, 1999; (3)
Letter to Dr. James Cogliano, National Center for
Environmental Assessment, U.S. EPA, from David
Ozonoff, M.D., M.P.H., Professor and Chair,
Department of Environmental Health, Boston
Doc ID# 68733

University School of Public Health, re: Kimbrough et al. study, June 6, 1999; (4) Memorandum to Mr. James Colleano, from Ms. Mary S. Wolff, Division of Environmental and Occupational Medicine, Mount Sinai School of Medicine, re: review of the JOM Kimbrough article, September 1, 1999; (5) Letter to Dr. James Coglian, Chief, Quantitative Risk Methods Group, National Center for Environmental Assessment, U.S. EPA, from Thomas Mack, M.D., Professor, Department of Preventive Medicine, USC/Norris Comprehensive Cancer Center, University of Southern California School of Medicine, re: Review of the Kimbrough paper on PCBs, undated, facsimile date May 1, 2000.)

- P. 804019 - Report: GE Rat-Feeding Study and EPA PCB Cancer
804020 Reassessment, undated.

Doc ID# 68734

- P. 804021 - Report: GE Study of 7,075 Capacitor Workers,
804037 prepared by Renate D. Kimbrough, M.D., Principal Investigator, Martha Doemland, Ph.D., and Maurice LeVois, Ph.D., undated.

Doc ID# 68735

10.0 PUBLIC PARTICIPATION

10.1 Comments and Responses

- P. 10.3605 - Proposed Agenda for General Electric EPA Meeting,
10.3743 prepared by Hudson River Project, Corporate Environmental Programs, General Electric Company, November 6, 1995, facsimile date, October 31, 1995. (Attachments: (1) Letter to Mr. Douglas J. Tomchuk, Remedial Project Manager, Emergency and Remedial Response Division, U.S. EPA, Region II, from Mr. John G. Haggard, Engineering Project Manager, GE Corporate Environmental Programs, General Electric Company, re: Request for copy of raw data from 1990 fish consumption survey, August 11, 1995; (2) Table: Data Sources for MicroExposure Program of Fish Consumption for the Hudson River, prepared by ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for U.S. EPA Region II, November 6, 1995; (3) Table: Definition of Variables Used in MicroExposure Program of Fish Consumption for the Hudson River, prepared by ChemRisk Division, McLaren/Hart Environmental Engineering Corp.,

Doc ID# 68736

Prepared for U.S. EPA Region II, November 6, 1995; (4) Table: MicroExposure Program of Fish Consumption for the Hudson River Input.XLS, prepared by ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for U.S. EPA Region II, November 6, 1995; (5) Table: MicroExposure Program of Fish Consumption for the Hudson River Output.XLS, prepared by ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for U.S. EPA Region II, November 6, 1995; (6) Table: MicroExposure Program of Fish Consumption for the Hudson River Macroh.XLS, prepared by ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for U.S. EPA Region II, November 6, 1995; (7) Description of the Basic Approach to Model PCB Dose Rates from the Consumption of Fish from the Upper Hudson River, prepared by Paul S. Price, Ph.D., Supervising Health Scientist, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for U.S. EPA Region II, November 6, 1995; (8) Software Issues, prepared by Ms. Cynthia L. Curry, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for U.S. EPA Region II, November 6, 1995; (9) Report: Monte Carlo Modeling of Time-Dependent Exposures Using a MicroExposure Event Approach, prepared by Paul S. Price, Ph.D., Supervising Health Scientist, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., Ms. Cynthia L. Curry, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., Mr. Philip E. Goodrum, SUNY-College of Environmental Science and Forestry; Mr. Michael N. Gray, Department of Civil Engineering, Tri-State University; Ms. Jane I. McCrodden, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., Ms. Natalie W. Harrington, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., Ms. Heather Carlson-Lynch, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., Mr. Russell E. Keenan, ChemRisk Division, McLaren/Hart Environmental Engineering Corp., prepared for Risk Analysis, undated.)

P. 10.3744 - Letter (w/ attachment) to Mr. Douglas J. Tomchuk,
10.3763 Remedial Project Manager, Emergency and Remedial
Response Division, U.S. EPA, Region II, from
Russell E. Keenan, Ph.D., National Director,
Chief Health Scientist - Managing Principal,
ChemRisk Division, McLaren/Hart Environmental
Engineering Corp. and Mr. Paul S. Price,
Supervising Health Scientist, ChemRisk Division,
McLaren/Hart Environmental Engineering Corp., re:
Response to EPA questions, February 15, 1996.

Doc ID# 68737

p. 10.3764 - Facsimile to Ms. Marian Olsen, U.S. EPA,
10.3767 Region II, from Ms. Jackie Moya, Exposure
Assessment Group, Office of Health & Environmental
Assessment, Office of Research & Development,
U.S. EPA, re: Attached are our comments on the
ChemRisk reports re: Hudson River, undated,
facsimile date March 13, 1995.

Doc ID# 68738

11.0 TECHNICAL SOURCES AND GUIDANCE DOCUMENTS

11.1 EPA Headquarters

P. 11.1892 - Memorandum to Assistant Administrators, General
11.1896 Counsel, Inspector General, Associate
Administrators, Regional Administrators, Staff
Office Directors, U.S. EPA, from Ms. Carol M.
Browner, Administrator, U.S. EPA, re: Peer Review
Program, June 17, 1994. (Attachment: Report: Peer
Review and Peer Involvement at the U.S.
Environmental Protection Agency, Science Policy
Council, U.S. EPA, June 7, 1994.)

Doc ID# 68739

P. 11.1897 - Memorandum to Superfund National Managers,
11.1906 Regions 1 - 10, U.S. EPA, from Mr. Stephen D.
Luftig, Director, Office of Emergency and Remedial
Response, U.S. EPA, Mr. Barry Breen, Director,
Office of Site Remediation Enforcement, OECA, U.S.
EPA, re: Implementation of Risk Assessment
Guidance for Superfund (RAGS) Volume 1 - Human
Health Evaluation Manual (Part D, Standardized
Planning, Reporting, and Review of Superfund Risk
Assessments) (Interim). (Attachments: (1) List of
RAGS Part D Workgroup Members, (2) Fact Sheet:

Doc ID# 68740

Frequently Asked Questions: RAGS Part D, prepared by Office of Solid Waste and Emergency Response, Office of Emergency and Remedial Response, U.S. EPA, January 1998.)

P. 11.1907 - Report: Final Draft - Risk Assessment Guidance
11.1989 for Superfund(RAGS) Volume 1: Human Health
Evaluation Manual, Supplemental Guidance, Dermal
Doc ID# 68741 Risk Assessment, Interim Guidance, prepared by
Office of Emergency and Remedial Response, U.S.
EPA, August 11, 1999.

P. 11.1990 - Memorandum to Assistant Administrators, Regional
11.1991 Administrators, General Counsel, Chief Financial
Officer, Inspector General, Associate
Administrators, U.S. EPA, from Ms. Carol M.
Doc ID# 68742 Browner, Administrator, U.S. EPA and Mr. W.
Michael McCabe, Deputy Administrator, U.S. EPA,
re: Peer Review Handbook - 2nd Edition, December
22, 2000.

11.4 Technical Sources

P. 11.1992 - Press Release: AIHC Supports Use of Mode-of-
11.1993 Action Approach When Complete, Mechanistic Data
Are Lacking, prepared by American Industrial
Doc ID# 68743 Health Council, March 26, 1999.

P. 11.1994 - Report: Determining Modes of Action for
11.2011 Biologically Based Risk Assessments, prepared by
American Industrial Health Council, March 1999.

Doc ID# 68744
P. 11.2012 - Report: Two Dimensional Monte Carlo Simulation and
11.2032 Beyond: A Comparison of Several Probabilistic Risk
Assessment Methods Applied to a Superfund Site,
Doc ID# 68745 prepared by Ted W. Simon, prepared for Human and
Ecological Risk Assessment, U.S. EPA, 1999.

P. 11.2033 - Report: Does the Use of Monte Carlo Methods in
11.2035 Risk Assessment Add Value? A Case study of the
Sangamo-Weston/Lake Hartwell Site, prepared by Ted
W. Simon, Ph.D., D.A.B.T., Toxicologist, U.S. EPA,
Doc ID# 68746 undated, facsimile date August 2, 1999.