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Testimony Review

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Year 1980

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Description Notes Also included is item is letter to Alvin L. Young from James F
Striegel, March 6, 1981.

March 6, 1981

MAJ Alvin Young
520A Magnolia
Maxwell AFB, Alabama 36113

Reference: VA Contract Number V101(93)P-823
JRB Project Number 2-816-03-744-00

Dear Al:

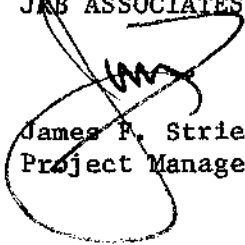
As I promised at our meeting yesterday, I am enclosing a copy of the report we provided to EPA following our review of the direct testimony and supporting documentation of Drs. Reggiani, Tuchmann-Duplessis, Crow, and Rowe at the 2,4,5-T/Silvex Cancellation Hearing. All documents listed in the six bibliographies should be available from EPA. Please note that some of these documents are confidential to the Italian Government.

We have some of the documents listed, particularly those in appendix 4. If you see anything of interest to you, you might want to try our files first.

If you have any questions or require further clarification, please call me on (703) 821-4644.

Sincerely,

JRB ASSOCIATES


James F. Striegel, Ph.D.
Project Manager

JFS:jb

Enclosure

Al Young: fyi —

JAMES F. STRIEGEL, Ph.D.

JS
3/6/81

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A Subsidiary of Science Applications, Inc.

EPA 68-01-6280: 01

JRB 2-800-03-672-01

FINAL REPORT
Work Assignment No. 1
2,4,5-T Seveso Testimony Review

Provided to:

Ms. Jane Keller, M.P.H., Project Officer
Epidemiology Branch, OTS
U.S. Environmental Protection Agency

By:

JRB Associates, Inc.
8400 Westpark Drive
McLean, Virginia 22102

November 14, 1980

Work Assignment No. 1
2,4,5-T Seveso Testimony Review

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FINAL REPORT

Work Assignment No. 1:
2,4,5-T Seveso Testimony Review

As the first task under contract number 68-01-6280, JRB was requested to assist the Office of General Counsel (OGC) in their preparation for the cross-examination of four witnesses testifying on behalf of the Dow Chemical Company, et al., during the cancellation hearing for major uses of the phenoxy acid herbicide, 2,4,5-T. A contaminant produced during the manufacture of 2,4,5-T is 2,4,7,8-tetrachlorodibenzo-p-dioxin (TCDD), one of the most highly toxic substances known.

Part of the case concerns the events that occurred at Seveso, Italy, after the ICMESA chemical plant (owned and operated by Hoffman-LaRoche) exploded in July 1976, resulting in a release of chemicals--including TCDD--over a densely populated area. Information regarding this event was provided in the direct testimony and supporting documentation of four witnesses for the Dow Chemical Company, et al. The majority of this information was covered by a confidentiality request by the Italian Government and was in Italian. JRB's assignment was to provide a qualified epidemiologist to review the direct testimony and supporting documentation of the four witnesses, and to provide expert advice regarding EPA's cross-examinations.

Nature of Assignment

The four witnesses testifying on behalf of Dow Chemical Company, et al., included:

- (1) Dr. Giuseppe Reggiani: Member of the Research Board of Hoffman-LaRoche. As head of the Clinical Research Department at the time of the Seveso incident, Dr. Reggiani was sent to Seveso to determine the extent of danger and recommend to the Italian authorities any protective and preventive measures to be taken on behalf of the public.

- (2) Dr. H. Tuchmann-Duplessis: Professor of histology and embryology at the University of Paris, Director of the Basic Research Foundation of the Ministry of National Education, and head of the Department of Medical Biologists.
- (3) Dr. V. K. Rowe: Consultant to the Vice President for Health and Environmental Sciences at Dow Chemical Company, formerly Director of Toxicological Affairs for Dow Health and Environmental Sciences.
- (4) Dr. Kenneth D. Crow: Investigator for the English Medical Advisory Service, and recognized authority regarding chloracne. In 1976, Dr. Crow was requested by the Italian Government to provide advice about the possible toxicological effects of TCDD contamination following the incident at Seveso.

Mr. John O'Donnell of OGC was identified on the agency's Task Officer for this work assignment. Support was provided to the following members of designated OGC staff for their cross-examinations of witnesses:

<u>Attorney</u>	<u>Witness to be Cross-Examined</u>
Mr. John O'Donnell	Dr. Giuseppe Reggiani
Mr. Carl Bayer	Dr. H. Tuchmann-Duplessis
Mr. Andrew Gordon	Dr. V. K. Rowe
Dr. Richard Bozof	Dr. Kenneth Dr. Crow

Qualifications of JRB Specific to This Task Assignment

Under a separate contract with EPA, JRB is providing support for the determination of health effects and risks of exposure for a large variety of chemicals being manufactured in this country. Additionally, JRB has conducted a special investigation for EPA of the industrial production and disposal of chlorinated dioxins, a list of which is given in Table A.

1-chloro	1,2,3,4-tetrachloro	1,2,3,4,6-pentachloro
2-chloro	1,2,3,6-tetrachloro	1,2,3,4,7-pentachloro
1,2-dichloro	1,2,3,7-tetrachloro	1,2,3,6,7-pentachloro
1,3-dichloro	1,2,3,8-tetrachloro	1,2,3,6,8-pentachloro
1,4-dichloro	1,2,3,9-tetrachloro	1,2,3,6,9-pentachloro
1,6-dichloro	1,2,4,6-tetrachloro	1,2,3,7,8-pentachloro
1,7-dichloro	1,2,4,7-tetrachloro	1,2,3,7,9-pentachloro
1,8-dichloro	1,2,4,8-tetrachloro	1,2,3,8,9-pentachloro
1,9-dichloro	1,2,4,9-tetrachloro	1,2,4,6,7-pentachloro
2,3-dichloro	1,2,6,7-tetrachloro	1,2,4,6,8-pentachloro
2,7-dichloro	1,2,6,8-tetrachloro	1,2,4,6,9-pentachloro
2,8-dichloro	1,2,6,9-tetrachloro	1,2,4,6,9-pentachloro
1,2,3-trichloro	1,2,7,8-tetrachloro	1,2,4,7,9-pentachloro
1,2,4-trichloro	1,2,7,9-tetrachloro	1,2,4,8,9-pentachloro
1,2,6-trichloro	1,2,8,9-tetrachloro	1,2,3,4,6,7-hexachloro
1,2,7-trichloro	1,3,6,8-tetrachloro	1,2,3,4,6,8-hexachloro
1,2,8-trichloro	1,3,6,9-tetrachloro	1,2,3,4,6,9-hexachloro
1,2,9-trichloro	1,3,7,8-tetrachloro	1,2,3,4,7,8-hexachloro
1,3,6-trichloro	1,3,7,9-tetrachloro	1,2,3,6,7,8-hexachloro
1,3,7-trichloro	1,4,6,9-tetrachloro	1,2,3,6,7,9-hexachloro
1,3,8-trichloro	1,4,7,8-tetrachloro	1,2,3,6,8,9-hexachloro
1,3,9-trichloro	2,3,7,8-tetrachloro	1,2,3,7,8,9-hexachloro
1,4,6-trichloro		1,2,4,6,7,9-hexachloro
1,4,7-trichloro		1,2,4,6,8,9-hexachloro
2,3,6-trichloro		1,2,3,4,6,7,8-heptachloro
2,3,7-trichloro		1,2,3,4,6,7,9-heptachloro
		Octachloro

TABLE A: CHLORINATED DIOXINS
RESEARCHED BY JRB

Due to the technical nature of the testimonies provided by these witnesses, and the short time period permitted for response, a dedicated staff of four persons was selected for this task. These include:

Dr. Jim Striegel: Task Manager
Dr. Leslie Exinton: Senior Scientist
Ms. Alice Hastings: Document Control Specialist
and Research Analyst
Ms. Marie Murray: Research Analyst

In addition, JRB obtained the services of the Literature Research Company to provide English summaries, abstracts, and translations of Italian language documents provided by the four witnesses for Dow.

Schedule of Work

- October 29: JRB was notified by the Project Officer that this task would be initiated and would involve rapid response support to the Office of General Council. We immediately contacted the contract specialist and the designated Task Officer, Mr. O'Donnell, to notify them of our readiness and to establish the initial schedule.
- October 31: Dr. Striegel met with Mr. O'Donnell and was briefed on the requirements of the assignment. Written testimony of the four witnesses and supporting documentation was received from OGC. The documentation consisted of more than 130 items and reports compiled from Italian Government files concerning the incident at Seveso, and subsequent investigations and public health programs. Almost all of this documentation was in Italian and all of it was covered by an Italian Government request for confidentiality. A list of these documents is provided on appendix 1. In addition, another 187 articles from technical journals and the popular press were provided, many of which were written in Italian, German, and French. A list of these articles is provided as appendix 2.
- November 3: The JRB task team was assembled and began work on the testimony and document files. Articles specifically referenced in the testimony of the witnesses were marked. Any references cited by the witnesses, but not included in the supporting documentations, were identified. These missing references are listed in appendix 3.

- November 4: Review of the direct testimony of Drs. Reggiani and Tuchmann-Duplessis and documentation continued. The confidential material from Italian Government files was reviewed to select specific reports to submit to the translator for abstracting. Dr. Euinton independently reviewed the English translation of the bibliography of the Italian Government files (shown in appendix 1), and selected documents for the translator to abstract. Documents sent to the Literature Research Company for summarization and abstracting are listed in appendix 4.
- November 5: Review of the documentation continued. At the suggestion of Mr. O'Donnell, computer search was conducted by JRB to identify publications by the witness, Dr. Reggiani, which pertain to the incident at Seveso but had not been provided in the supporting documentation. These publications are also listed in appendix 3.
- November 6: Dr. Striegel and Dr. Euinton attended initial strategy meeting with Messrs. O'Donnell, Bayer, Gordon and Bozof of OGC. Dr. Euinton provided advice on legal approaches to the cross-examinations of Dr. Reggiani and Dr. Tuchmann-Duplessis, and initial advice regarding the cross-examinations of Dr. Rowe and Dr. Crow.
- November 7: JRB delivered two copies of all supporting documents required for disclosure pertaining to the direct testimony of Dr. Reggiani and Tuchmann-Duplessis. Dr. Striegel and Dr. Euinton also met with Mr. Gordon and Dr. Bozof to discuss strategies for the cross-examinations of Drs. Rowe and Crow. Dr. Bozof provided another 23 documents used as references by Dr. Crow, and requested that JRB review these during the coming week. These documents are listed in appendix 5. Mr. O'Donnell, the Task Officer, verified the need for this additional work. Dr. Euinton also provided further advice regarding the cross-examinations of Dr. Reggiani and Dr. Tuchmann-Duplessis.
- November 10: Dr. Euinton attended the initial hearing session where Dr. Reggiani read his testimony and the cross-examination began. JRB received from Dr. Bozof a list of items that he wanted found, copied, and delivered to him the next day. A trip was made to the National Library to get these documents.
- November 11: A trip was made to George Washington University Himmelfarb Health Sciences Library to complete the set of documents being provided to Dr. Bozof. At the time of delivery, Dr. Bozof requested two more items and a second trip was made to the Himmelfarb Library, but the material requested was not available. Dr. Bozof then withdrew his request. The materials obtained and provided to Dr. Bozof are listed in appendix 6.

- November 12: Dr. Euinton spoke by telephone with Dr. Bozof to provide final information and advice regarding the cross-examination of Dr. Crow.
- November 13: A final report of all task activities was drafted and prepared for submission to the EPA.
- November 14: The final report of the task was submitted to the Project Officer, Ms. Keller, the Task Officer, Mr. O'Donnell, and the Contracting Officer, Mr. Kranda.

Control Procedures for Document Security

At the time that confidential documents were transmitted to Dr. Striegel, he also received forms to be read and signed by each of the persons involved in the review of these documents, indicating their acknowledgment of the confidentiality of this material. Signed agreements of confidentiality from all persons handling the restricted documents were submitted to Mr. O'Donnell on November 6. Persons using these documents include: Dr. Striegel, Dr. Euinton, Ms. Hastings, and Ms. Sara Lee Schnur, the translator.

At the end of each working day, these materials were reassembled, boxed, and placed in a locked security area. The use of these documents for photocopying has been restricted, permitting copies of only those materials selected as a basis for the cross-examination of witnesses. Four copies of these selected materials were made, and dissemination of them is as follows: two copies delivered to Mr. O'Donnell on November 7, one copy to Dr. Euinton for research, and one copy to the task files for backup and for use in compiling the final report. All documents sent to and used by the translator have been returned to JRB.

All confidential documents associated with this task have been carefully controlled and handled in accordance with security procedures.

Original document files were returned to Mr. O'Donnell on November 14, and all remaining copies at JRB have been destroyed.

APPENDIX 1:

ENGLISH-LANGUAGE LISTING
OF CONFIDENTIAL DOCUMENTS SUPPORTING
THE TESTIMONY OF DRS. REGGIANI AND
TUCHMANN-DUPLESSIS, AND PROVIDED BY
DOW CHEMICAL COMPANY*

*About 90 percent of these documents are in Italian. All are covered by a confidentiality request from the Italian Government.

2 A: Reports by Italian Authorities of the Lombardy Region
1976

1. Chronology of the Icmesa accident
Report on my visit to Milan and to the City Hall of Seveso
July 23, 1976
2. Coordinating Committee on Public Health and Sanitation
Standards following the Icmesa accident
August 18, 1976
 - Description of TCDD
 - Problems of sanitation caused by dioxin
 - Virulence and characteristics of dioxin toxicity
 - Effect of dioxin toxicity on various organs and body systems
 - Particularities of the dioxin which escaped from Icmesa
 - Evaluation of the risk that dioxin (TCDD) represents in cases of pregnancy - Milan 8/9/76
 - Surveillance plan
 - Plan for the operational rehabilitation program required under Art. 1, para. A, Regional Law 2, January 17, 1977, and provisions for implementing the rehabilitation plan approved by the R. C. on 7/10/76
 - Conference of experts on the problems raised by dioxin pollution
"Rehabilitation of the areas covered by the districts of Seveso, Meda, Cesano Maderno and Desio that have been contaminated by dioxin"
 - Rehabilitation program for the areas covered by the districts of Seveso and Meda that have been contaminated by dioxin
3. Rehabilitation of the areas of Seveso and of the districts bordering on it which have been contaminated by dioxin
Coordination and development of the program approved by the Regional Council on August 24, 1976
Report by Prof. A. Giovanardi
December 4, 1976
4. Medico-Epidemiological Commission
(Coordinator Prof. G. M. Fara)
Milan, August 27, 1976
5. Lombardy Region - Office of the Public Health Assessor
Medico-Epidemiological Commission
Milan, September 27, 1976
6. New survey of Zone "B"
Directed by the Commission of Inquiry
9/6/76
7. Regional Council of Lombardy, 3rd Advisory Commission:
Sanitation and Hospital Services - Social Security - Ecology - Environmental Protection
"Report by the 3rd Advisory Commission on conditions in the Seveso area affected by pollution due to toxic substances, and on the appropriate measures that must be taken"
Carrera, 10/7/76

8. Lombardy Region, November 10, 1976
"Updating of the data relating to the actions taken by Public Health for the population of the area affected by dioxin pollution"
9. Lombardy Region - Regional Law 2, January 17, 1977
"Operations for the population of the area affected by TCDD pollution"
10. Minutes of the meeting of the working group on the results of embryo-morphological studies in cases of abortion connected with the Seveso accident of July 10, 1976, held in Lübeck, February 24 - 25, 1977
11. Lombardy Region - Office of the Public Health Assessor
Outline of the operational program in the matter of sanitary assessments and controls, sanitary assistance and the protection of Public Health.
Regional Law 2, January 17, 1977
Milan, March 28, 1977
12. Dermatology Clinic, Milan University, April 1, 1977
13. Commission of the European Communities
Document No. V/F/1/2669/1/77.f
Draft Report
First meeting of the Chloracne Panel, Milan, July 11 - 12, 1977
14. Commission of the European Communities
Document No. 1320/77 e
Chloracne Panel, Milan 11 & 12 July, 1977
Working paper prepared by Prof. Vittorio Puccinelli, Dermatology Clinic, Milan
15. Preliminary report on the state of health in the area polluted by TCDD
(Report submitted by Prof. G. Fara, President of the Medico-epidemiological Commission, to the Seveso Conference on 5/28/77)
16. Documentation File No. 1, comprising:
 - a summary approved by the Coordinating Committee
 - the report on the state of health
 - various documents related to specific problems
17. Operations in Zone R after July 1, 1977
18. Resurvey of Zones A1, A2, A3, A4

2 B: Reports by the Medical Commission of the Lombardy Region
1977

1. Lombardy Region
Medico-epidemiological Commission
Preliminary report on the state of health in the area of
Seveso
(Report submitted to the Seveso Conference)
May 28, 1977
Computer printouts
2. Cytogenic studies in individuals exposed to the toxic
effect of TCDD carried out within the framework of the
agreements between the Lombardy Region and the Institutes
of General Biology of the Schools of Medicine and Surgery
of the Universities of Milan and of Pavia
3. Extract from the report on the results of the chromosomal
studies of cells from women exposed to TCDD (Project of
the Professors de Carli and Candiani)
(Chromosome studies on pregnant women)
(Personal communication)
4. Galley proof, detailed report on the activities related
to the matter of sanitary operations in the area polluted
by TCDD and on an evaluation of these operations
Milan, June 21, 1977

Galley proof, detailed report on the activities related
to the matter of sanitary operations in the area polluted
by TCDD and on an evaluation of these operations
Enclosures
Milan, June 21, 1977
5. Lombardy Region - Veterinary Service - September 1977
Report on the sanitary situation and on breeding conditions
for cattle in the affected area
6. Lombardy Region - November 25, 1977
Past and recent case histories from the husbandry station
of the Archdiocesan Seminary of Seveso
7. Liver function tests
District of Polo (Meda) - District of San Pietro (Seveso)
Zone B - sample of 546 people - both sexes

2 C: Reports by the Special Commission on the Seveso Accident
July 2-3, 1978
Follow-up on health surveillance - September 1978

1. - Program for the "Press Seminary" of July 2-3, 1978
 - Lombardy Region, Special Office for Seveso
 - July 76 - July 78 "Analysis and evaluation of the consequences of the pollution by TCDD and of the policies regarding public operations two years after the ICMESA incident"
 - PRESS SEMINARY
 - Organization of sanitary operations in the area affected by TCDD contamination following the ICMESA incident of 7/10/76
 - Progress report on the epidemiological studies and on programming for new investigations
B. Paccagnalla, L. Dardanoni
 - Neonatology and pediatrics
 - Findings of the "Cytogenic studies in individuals exposed to the toxic action of TCDD"
 - Summary of the reports by Professors L. Giannico and E.M. Colombrini of the Directorate General of the Public Health Services of the Ministry of Health concerning "Operations of the Ministry of Health in connection with the TCDD pollution" - Seminary with the Press, Milan, July 2-3, 1978.
 - Evaluation of the consequences of the TCDD pollution from a veterinary viewpoint
 - Lombardy Region, "Evaluation of the consequences of the TCDD pollution from a veterinary viewpoint"
 - Cultivation in the contaminated area
 - Agronomy and agrotechny aspects of the rehabilitation operations in the area of Seveso
A. Gervato - G. Zampieri
 - Legal aspects of the ICMESA incident, a synthesis for the press. Speaker: Attorney Mario Bertacco.
 - Map of the deposit monitors
 - Network of wells for the aqueduct under periodic observation in order to control underground water
 - Surface water
 - Structural foundations
2. Follow-up on the health survey - scope and operational plans

2 D: Reports by the Medical Commission 1979

1. Lombardy Region
Operational Program No. 2
"Medical observations relating to subjects suffering from dermatological symptoms exposed to risks as a result of the TCDD pollution in the areas of the C.S.Z.'s Brianza di Seveso 1, 2, 3."
Report No. 5, November 1978
2. Groups of individuals with dermal lesions, ages 1 to 14 as of 7/10/76
3. Lombardy Region
Operational Program No.2
"Development of spontaneous abortions in the area of the C.S.Z.'s Brianza di Seveso 1, 2, 3"
Report No. 7, December 1978 (galley proof)
4. Lombardy Region
"Press Conference of July 5, 1979"
Introduction by Attorney Antonio Spallino
5. Lombardy Region
Operational Program No. 2
"Development of spontaneous abortions in the area of the C.S.Z.'s Brianza di Seveso 1, 2, 3"
6. Lombardy Region
Del Corno, G., Favaretti, C., Caramaschi, F., Giambelluca, S.E., Montesarchio, E., Bonetti, F., Volpato, C.
"Distribution of chloracne cases in the area of Seveso as a result of TCDD pollution (2,3,7,8-tetrachloro-dibenzo-p-dioxin).
7. Lombardy Region
"Chloracne and general clinical symptoms in a group of subjects more than 14-years-old, exposed to TCDD in the area of Seveso"
8. Lombardy Region
Favaretti, C., Del Corno, G., Caramaschi, F., Giambelluca, S.E., Montesarchio, E., Marni, E., Bonetti, F., Volpato, C.
"Chloracne and general clinical symptoms in a group of subjects, aged 0 to 14 years, exposed to TCDD in the area of Seveso"
9. European Teratology Society, 6th Conference,
September 4 - 7, 1978 in Budapest, Hungary
"Experience of the accident of Seveso"

2 E: Health Surveillance Program
Follow-up reports, September 1979 - May 1980

1. Lombardy Region
Operational Program No. 2
Progress report as of March 31, 1979
(July 1979)
2. Control of the group of individuals with porphyrinuria
above 100 mog/e in 1976
3. Total sampling by the Laboratory of the Desio Hospital
as of 3/31/79
4. Report on the exploratory dissection of 3/31/79
5. 1st galley proof, report by Dr. Marni on deformities
Seveso, September 1979
6. Lombardy Region - Offices of the P.O. 2 FB/ag - Prot. No. 162
" Minutes of the 17th meeting of the Epidemiological
Commission established by decree of the President of
the Lombardy Region, No. 32 of 1/19/78."
7. Report by Prof. Puccinelli on dermal lesions, July 5, 1979
8. Live births and stillbirths, natimortality rate in the
districts of the 3 C.S.Z.'s Brianza di Seveso 1, 2, 3,
Milan Province, Lombardy, Italy.
9. Milan University, July 1979
"Comments on the reports on the neurological activities
at the Occupational Clinic, Milan University"
10. Mortality studies in the three C.S.Z.'s "Brianza di Seveso"
Preliminary findings - L. Santi 7/9/80
11. Second Meeting of the International Committee of Guarantors,
Como, Italy, November 26 - 27, 1979
12. Second Meeting of the International Committee of Guarantors,
Como, Italy, November 26 - 27, 1979
13. 3rd Meeting of the International Scientific Steering
Committee, March 30 - April 1, 1980, Milan, Italy

14. Official Bulletin of the Lombardy Region
No. 52, December 27, 1979
15. "La Traccia" - Information journal of the Italian Society
for Mass Spectrometry in Biochemistry and Medicine
March - April, 1980, 3rd year, No. 2
16. Updated data on mortality in the area of Seveso,
Milan, 7/9/80
17. Minutes of the meeting of 3/14/80 of the Regional Technical
Advisory Commission for the determination of the threshold
of toleration for TCDD in the environment and in food.
18. Ministry of Health
Reporting Commission, Meeting No. 54/R
Rome, May 2, 1980 - 10 a.m.
19. Ministry of Health
Plenary Commission, Meeting No. 54
Rome, May 2, 1980 - 3 p.m.
20. Ministry of Health
Plenary Commission, Meeting No. 55
Rome, May 27, 1980 - 11 a.m.
21. Ministry of Health
Plenary Commission, Meeting No. 56
Rome, May 29, 1980 - 4 p.m.
22. Ministry of Health
Plenary Commission, Meeting No. 53
Rome, April 24, 1980 - 10 a.m.
23. Ministry of Health
Reporting Commission, Meeting No. 53/R
Rome, April 23, 1980 - 4 p.m.
24. Ministry of Health.
Reporting Commission, Rome, April 23, 1980
"Examination of the state of health of the population
affected by TCDD pollution"
25. Ministry of Health
Reporting Commission, Meeting No. 52/R
Rome, March 31, 1980 - 10 a.m.
26. Ministry of Health
Plenary Commission, Meeting No. 52
Rome, March 31, 1980 - 3 p.m.

27. Ministry of Health
Reporting Commission, Rome, March 31, 1980
"Proposal to liberalize cultivation in Zones "R" and "B"
28. Telex of February 15, 1980
"Corriere della Sera" - dated 2/15/80
"Another 10 scientists named to the 'Dioxin Commission'"
29. Ministry of Health
Special Technical-scientific Commission for the decontamination of Seveso established by D.P.C.M. of 8/4/76 and subsequent amendments
Minutes of Meeting No. 48, Rome, August 3, 1979
30. Ministry of Health
Special Technical-scientific Commission for the decontamination of Seveso established by D.P.C.M. of 8/4/76 and subsequent amendments
Minutes of Meeting No. 46, Rome, June 23, 1979
31. Ministry of Health
Special Technical-scientific Commission established by D.P.C.M. of 8/4/76 and subsequent amendments
Minutes of Meeting No. 45, Rome, May 30, 1979

- 4: Reports by medical experts on cases of injury selected by the judge in charge of the judicial investigation - 8 volumes
-

Vol. 1

Investigation reports on the 22 cases designated by the judge charged with the inquiry on the causes of injury and on their extent and their consequences in connection with the Seveso accident

Vol. 2

Laboratory tests for the detection of damage to specific metabolic functions of organs (liver, kidney) or of altered serum composition, of blood morphology, etc. carried out between July 1976 and October 1977

BODONI, Rosa Angela
BRAGATO, Moreno
BRUNO, Farida
CANESSO, Maria in TESSAROLO
CARPEZZA, Claudio
CASSIO, Elda
CASSIO, Paola
CONTE, Corrado
CONTE, Emanuela
CONTE, Katia
CONTE, Massimo
GALLETTA, Rita
GASBARRI, Luciano
PORELLI, Katia
RIZZARDI, Severino
SANAVIO, Iolanda
SANTORO, Antonio
SARTOR, Maurizio
SENNO, Alice
SENNO, Stefania
SUSIGAN, Mara
VARCASIA, Annunziata

Vol. 3

Clinical history and findings of the experts in the examinations which took place March 27 and October 18, 1977

Vol. 4

Laboratory tests (ESR blood count, GOT, GPT, GT, etc, total protein, etc.) carried out during the examinations by the experts.

Vol. 5

Count of chromosome aberrations and test for immunodeficiency in the lymphocytes for each case.

Report on the cytogenic studies carried out as part of the survey ordered by the examining magistrate of the Tribunal of Monza in connection with the accident that occurred on 7/10/76 at the Icmesa plant in Meda.

Vol. 6

General considerations on the question of causality with respect to TCDD. Claims of exposure merely assessed historically. Clinical symptoms unspecific except for chloracne. No detection of TCDD. Forensic medical evaluation of each case. Conclusions.

Vol. 7

Documents and communications from the experts:

- 1) Letter to Ministry of Health, Rome
September 1977. Request for data.
- 2) Letter of December 15, 1977 to examining magistrate
Number of chloracne cases: 130
- 3) Letter to Spallino, February 16, 1979
Request for data, July 76 to February 78.
- 4) Reports on cytogenic studies.

Vol. 8

Case of major abdominal malformation. Atrophy or absence of rectum abdominies with exstrophy of gastrointestinal organs.

4: Reports by medical experts on cases of injury selected
by the judge in charge of the judicial investigation

- Report on the case of Mrs. Genoveffa Turchetto in Senno
Prof. Ezio Ventura, Modena
Modena, April 2, 1977
- Comments on the investigations carried out so far
- Results of the bioptic study made of Genoveffa Turchetto
in Senno
(samples taken during the surgery of 12/7/76)
- Report of medical forensic investigation of the causes of
the death of Turchetto Senno Genoveffa
Prof. Fornari, Montagna, Facchetti
- Report of medical forensic investigation of the causes of
the death of Turchetto Senno Genoveffa
Clinical file
Analytical outline

4. Reports by medical experts on cases of injury selected
by the judge in charge of the judicial investigation

- Tribunal of Monza
Examining Office - Examining Couns.: Dr. C. Di Nunzio
Crim. Proc. No. 199/76
Report of forensic medical investigation into the causes
and circumstances of the death of: TEOFILO, Lucia
- Report on forensic medical investigation into the causes
of the death of : MARCHETTI, Antonio
- Report on joint forensic medical investigation into the
causes of the death of: POLICELLA, Michelangelo
- TRIBUNAL OF MONZA - EXAMINING OFFICE
Crim. Proc. No. 199/76
Examining Couns. Dr. Cesare Di Nunzio
- Report of joint medical and chemical-toxicological investi-
gation into the death of PERATELLO ALINO
- Chemical-toxicological investigation in connection with the
criminal procedure in the death of MARCHETTI ANTONIO
- Chemical-toxicological investigation in connection with the
criminal procedure in the death of TEOFILO LUCIA

4: Reports by medical experts on cases of injury selected
by the judge in charge of the judicial investigation

- Medical report on the examination of the children Alice and Stefania Senno in Meda near Milan
Prof. K.H. Schulz M.D., Hamburg
2/20/78
- Medical report on the examination of the children Alice and Stefania Senno in Meda near Milan
Prof. K.H. Schulz M.D., Hamburg
6/11/79
- Findings by Prof Ugo, 7/28/77
- Report on the examinations by Professors R. Ugo and G. Caglio
Criminal proceedings 199/76 R.G. Tribunal of Monza
Examining magistrate Dr. Rosini
Situation in October - November 1977
- Report of forensic medical investigation into the causes of the death of Di Domenicantonio Vito
- Report of joint medical investigation into the causes and circumstances of the death of Familiari Antonia

APPENDIX 2:

LISTING OF NONCONFIDENTIAL DOCUMENTS
SUPPORTING THE TESTIMONY OF
DRS. REGGLIANI AND TUCHMANN-DUPLESSIS
AND PROVIDED BY DOW CHEMICAL COMPANY

1. Publications related to the Seveso accident

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- 2) Allegrini, I., Bertoni, G., Brocco, D., Liberti, A., Possanzini, M.: Decontaminazione mediante radiazioni ultraviolette da inquinamento da 2,3,7,8-tetraclorodibenzodiossina. (La Chimica e L'Industria 59: No 8, 541-544, 1977)

- 4) Bastenier, H.: La catastrophe de Seveso. (Bruxelles-Médical 58: No 1, 3-12, 1978)

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- 6) Berrino, F.: L'esposizione dell'uomo alla diossina prima di Seveso. (Epidemiologia e Prevenzione No 1, 64-67, 1977)

- 7) Berrino, F.: Preliminary report on mortality in the Seveso area, 1975-77. (I.A.R.C. Meeting, Lyon, France, 10-12 January 1978)

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- 10) Cattabeni, F.: The analysis of TCDD in the Seveso area (Symposium on Chlorinated Phenoxy Acids and their Dioxins; Mode of Action, Health Risks and Environmental Effects. The Royal Swedish Academy of Sciences. Stockholm, February 7-9, 1977)
- 11) Cattabeni, F.: Environmental monitoring of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin by mass fragmentography: The Seveso case. (4th International Symposium on Mass Spectrometry in Biochemistry and Medicine, Riva del Garda, Italy 20-22 June 1977)
- 12) Cooper, P.: Dioxin: A new biological probe? (Food Cosmet Tox 15: No 5, 481-483, 1977)
- 13) Crow, K.D.: Effects of Dioxin exposure. (The Lancet, pp 82-83, July 9, 1977)
- 14) Crow, K.D.: Chloracne: the chemical disease. (New Scientist , pp. 78-80, 13 April 1978)
- 15) Dewse, C.D.: Danger of TCDD. (Lancet, 363, August 14, 1976)
- 16) Dioguardi: Effetti tossici della diossina. (Associazione Italiana per lo studio del fegato, Roma 11 e 12 dicembre 1976). Deutsche Uebersetzung: Giftige Auswirkungen des Dioxins. (Italienische Vereinigung zum Studium der Leber, Rom, 11./12.12.76)
- 17) Editorial: Health hazard of dioxins still uncertain. (C & EN p. 12, April 16, 1973)
- 18) Editorial: Seveso - the accident that should never have happened. (New Scientist, 267, August 5, 1976)
- 19) Editorial: Seveso. (Lancet, 297, August 7, 1976)
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- 21) Editorial: A propos de Seveso ... (Laboratoire Coopératif No 112, 46-48, janvier-février 1977)
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- 23) Editorial: Twelve months after Seveso. (Nature 268: No 5616, 90, 1977)
- 24) Editorial: Decisione e continuità. (Negri News 11: No 1, 6, 1977)
- 25) Editorial: TCDD - Seveso. (Naturwissenschaften 64: 87, 1977)
- 26) Editorial: Spread of Dioxin. (The Lancet II, No 8033, 347, August 13, 1977)
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(Determination of TCDD in the human body)
- 28) Editorial: Seveso-Unglück: Teratogene Schäden wahrscheinlich. (Diagnostik 10: No 17, 20.10.1977)
- 29) Editorial: More dioxin found. (Chemical Week, page 22, October 5, 1977)
- 30) Editorial: Erstes Treffen des Chlorakne-Ausschusses. (Pharm. Ind. 39: No 9, 866, 1977)
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- 33) Forth, W.: 2,3,7,8-Tetrachlorodibenzo-1,4-Dioxin (TCDD); das Unglück von Seveso - Fakten und Wertung. (Deutsches Aerzteblatt 74: No 44, 2617-2626, 1977)

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- 36) Frontali, N. et al.: Toxicological criteria for operative choices concerning TCDD contamination, partly in relation to analytical "Zero" levels. (Comments on the paper, 28th April 1977)
- 37) Fuller, J.G.: Seveso: cronaca di un disastro (Selezione dal Reader's Digest 166-203, 1977) (German version)
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- 61) Mingoa, Q.: Profilo chimico della diossina TCDD e composti correlati. (Cronache Farm. 19: No 5, 206-209, 1976)

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- 69) Reggiani, G.: Seveso heute - Eine Voraussage. (Schweiz. Aerztezeitung Nr. 18, 751-754, 1977)
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- 80) Schulz, K.-H.: Dermatologische Aspekte der Intoxikation mit TCDD (Dioxin). (Der Hautarzt 28: 35, 1977)
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APPENDIX 3:

- A. LISTING OF ITEMS REFERENCED BY DR. REGGIANI, BUT NOT PROVIDED IN SUPPORTING DOCUMENTATION

- B. LISTING OF RELEVANT PUBLICATIONS BY DR. REGGIANI, BUT NOT PROVIDED IN SUPPORTING DOCUMENTATION

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APPENDIX 4:

LISTING OF SUPPORTING DOCUMENTS
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12. Reports on cytogenic studies.
13. Case of major abdominal malformation. Atrophy or absence of rectum abdominies with exstrophy of gastrointestinal organs.
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APPENDIX 5:

LISTING OF REFERENCES OF DR. CROW
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APPENDIX 6:

LISTING OF ADDITIONAL DOCUMENTS
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