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December 23, 1982

Arvin Maskin, Esq.
Torts Branch, Civil Division
United States Department of Justice
Safeway Building
521 12th Street, N.W.
Washington, D.C. 20530

Re: In re "Agent Orange" Product
Liability Litigation, MDL No. 381

Dear Arvin:

In my letter to you of December 6, 1982 concerning defendants' requests for production of certain documents described by Lester Miller during his deposition on November 9, 1982, I requested that the United States identify the title and source of the folder that contains the document from Batch 1933 referenced by microfilm frame number 258, a copy of which is enclosed for your reference.

It has recently come to my attention that this document includes additional pages which were not included in the Government's document production. In addition to the requested information concerning the title and source of the folder for that document, I would appreciate it if you would also furnish me with a complete copy of the entire document. Thank you for your attention to this matter.

Very truly yours,

Michael M. Gordon
Michael M. Gordon

MMG/mam

Enclosure

BY COURIER

cc(w/encl.): Hon. Sol Schreiber
Attached Service List

9862

W1
NA347V
National Clearinghouse
for
Poison Control Centers

Bulletin

March - April 1968



U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
Public Health Service
Washington, D.C. 20201

REC'D. MAY 22 1968

INDEX

INPUT

DEATHS FROM CHLORINATED PHENOXYACETIC ACIDS

(NAME OF 2,4,5-T; MCPA)

"The most widely used herbicides are 2,4-D, 2,4,5-T, and related compounds. Whether or not these are actually toxic is a matter of controversy."--Rachel Carson.

There may not be controversy when these chemicals are used as directed around the household or in agriculture, but the Michigan farmer who developed peripheral neuropathy four days after he repeatedly used his bare hands to unplug a tractor-towed automatic sprayer might dispute this. 2,4,5-T was implicated along with poison oak in the illness of two sisters who played for several hours in a yard which had been sprayed heavily a short time before. The next day both girls had a generalized erythema of the skin, minimal edematous swelling of the oral and vaginal mucous membranes, slight swelling of lips and eyelids, inflammation of the mouth, albuminuria and oliguria.

Upon receipt of a fatal case history due to suicide in a 48-year-old Connecticut man, a review of the Clearinghouse's reports was made. In the past three years, the Clearinghouse has received several reports of peripheral neuritis and skin rash following exposure to these products, in addition to those already cited.

Other symptoms that were associated with the chlorinated phenoxyacetic acid derivatives were: weakness of chest muscles associated with pneumonia and hematuria; lethargy with poor muscle tone; two brothers with ataxia, weakness and urinary frequency; irritability; lethargy; increase or decrease of temperature. Most of the victims that had symptoms had vomited. There was one report of hallucinations after inhalation of 2,4,5-T.

A SERVICE of the Division of Direct Health Services
Bureau of Health Services

INDEXED

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BATCH 1933 JUL 0208

19 2 5 10

9863

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JAMES DENPSEY, P.C.
COUNSEL

February 1, 1983

Arvin Maskin, Esq.
Department of Justice
Safeway Building
521 12th Street, NW
Washington, DC 20530

Re: Agent Orange

Dear Arvin:

During many of the depositions conducted for the Agent Orange litigation, defendants have requested on the record the production of relevant documents identified by witnesses in the course of their testimony. In particular, five witnesses formerly or currently associated with the United States Department of Agriculture (USDA) have identified a total of seventeen documents which have not, to date, been produced by the government.

Pursuant to the Special Master's directive entitling defendants to documents identified in the foregoing manner, I am reiterating, in writing, the requests for documents made orally during USDA - related depositions. I hope and expect that the following documents will be produced expeditiously:

I. Deposition of William B. Ennis, Jr. (October 19, 1982)

1. Request by Mr. Mattingly: The government is to produce minutes, agendas, and other documents provided to members of the Interdepartmental Committee on Pest Control concerning phenoxyherbicides at any time. (EBT transcript, p. 64).

II. Deposition of Dr. Harry W. Hays (December 9, 1982)

1. Request by Mr. Bennett: The government is to provide the full address of Mr. William McCormack of Akron, Ohio, who keeps minutes of the meetings for the Society of Toxicology. (EBT transcript, p. 13).

2. Request by Mr. Bennett: The government is to provide a complete bibliography of Dr. Harry W. Hays' scientific publications. (EBT transcript, p. 17).

3. Request by Mr. Bennett: The government is to provide all materials or notes in Dr. Harry W. Hays' possession related to his work at the Advisory Center on Toxicology. (EBT transcript, p. 26).

4. Request by Mr. Bennett: The government is to provide any minutes or any agendas or any documents reflecting any meetings of the Interdepartmental Committee on pest control. (EBT transcript, p. 97).

5. Request by Mr. Matthews: The government is to provide a copy of Dr. Harry W. Hays' recently - written report on the subject of polychlorinated biphenyls. The information should include the name of the client for whom the report was written. (EBT transcript, p. 144).

III. Deposition of Warren C. Shaw (September 9, 1982)

1. Request by Ms. Feldheim: The government is to provide copies of all written reviews and evaluations made by scientists at the USDA pertaining to Dr. Rachel Carson's manuscript of Silent Spring. (EBT transcript, p. 160).

2. Request by Ms. Feldheim: The government is to provide the 1962 edition of the "Using of Phenoxy Herbicides Effectively," published by USDA. (EBT transcript, p. 205).

3. Request by Ms. Feldheim: The government is to provide copies of the two-year feeding study conducted by the FDA. (EBT transcript, p. 220).

4. Request by Mr. Gordon: The government is to provide all minutes of any meetings of the Federal Committee on Pest Control or Pest Management that relate to the Bionetics study or to 2,4-D, 2,4,5-T or dioxin. (EBT transcript, p. 225).

5. Request by Mr. Tyrrell: The government is to provide a copy of the volume that Dr. McNamara transmitted to various government officials in or around 1963 or 1964 containing the results of his toxicological studies at that point in time. (EBT transcript, p. 279).

IV. Deposition of Philip C. Kearney (August 3, 1982)

1. Request by Ms. Neiman: The government to provide any notes Dr. Kearney may have of the "Chemistry of Pesticides" FDA course taken in 1966. (EBT transcript, p. 13).

2. Request by Mr. Tyrrell: The government is to provide the documents Mr. Kearney reviewed in preparation for the disposition. (EBT transcript, p. 34).

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V. Deposition of Philip C. Kearney (August 16, 1982)

1. Request by Mr. Tyrrell: The government is to present any additional documents on herbicides, Agent Orange, or dioxin that Dr. Kearney might have. (EBT transcript, p. 180).

2. Request by Mr. Tyrrell: The government is to provide a "green book," which is a report describing the herbicide findings used in the contract between the DOD and the USDA. (EBT transcript, p. 195).

3. Request by Mr. Matthews: The government is to provide a copy of the mentioned ARPA report and Dr. Kearney's ledger book. (EBT transcript, p. 292).

Very truly yours,

John J. Burke

JJB:mjm

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* NOT ADMITTED IN NEW YORK

February 16, 1983

Arvin Maskin, Esq.
Torts Branch, Civil Division
United States Department of
Justice
Safeway Building
521 12th Street
Washington, D.C. 20530

Re: Agent Orange Litigation

Dear Arvin:

During the course of the deposition of General Fred Delmore on February 2, 1983, the witness testified that he presented a classified paper on the use of herbicides at the meeting held to discuss and evaluate the toxicity of 2,4-D and 2,4,5-T compounds at Edgewood Arsenal on April 26, 1963. The defendants hereby reiterate their request made at General Delmore's deposition for production of that classified paper.

In addition, General Delmore testified that he was a member of the Chemical Corps Board. The defendants similarly request production of the minutes of meetings of the Chemical Corps Board relating to dioxin, 2,4,5-T, Agent Purple, Agent Orange or the Hoffmann Trip Report for the period 1955-1970 and any documents in the custody or control of the Chemical Corps Board relating to the same.

Very truly yours,

Patricia C. Tuohy
Patricia C. Tuohy

PCT:td

cc: Hon. Sol Schreiber
Attached Service List

9867



Washington, D.C. 20530

February 23, 1983

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157-0-107

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NOTICE TO ALL COUNSEL

Re: In re "Agent Orange" Product
Liability Litigation, MDL No. 381

This Notice provides an update on the status of several outstanding document requests as well as recent document production by the United States:

1. October 1, 1982 Request for Documents
In Connection with Deposition of Dr.
William B. Ennis. On October 22,
1982 this office forwarded this re-
quest to our agency counsel at U.S.D.A.
We have received a response from that
agency. After extensive consultation
with both Dr. Warren Shaw and Dr. Ennis,
the agency has stated that the following
documents either previously have been
produced or are not available from the
agency's files:
 - a. Each document in the possession,
custody, or control of the United
States Department of Agriculture
that (a) mentions chloracne or any
polychlorinated dibenzo-p-dioxin
or both, and (b) was prepared in
1969 or earlier.
 - b. Each document in the possession,
custody, or control of Dr. Ennis
that (a) mentions chloracne or
any polychlorinated dibenzo-p-
dioxin and (b) was published or
prepared in 1969 or earlier.

- c. If not included in the production in response to "1" or "2" above, such records of the United States Department of Agriculture of Agriculture as identify (a) the books, papers and articles in the papers and articles in the possessions of the United States Department of Agriculture between January 1, 1960 and December 31, 1969, that mention or discuss either chloracne or any polychlorinated dibenzo-p-dioxin, or both and (b) the date of acquisition of each such book paper, or article.
- d. Each document listed as an attachment to the Memorandum of a meeting with representatives of USIA, dated March 12, 1965. This memorandum identifies the attachments as follows:

Letter from A.O. Bundy, USIA, to W.A. Godel, ARPA, DOD, March 12, 1963;

Letter from W.A. Godel to W.C. Shaw, ARS, USD, March 15, 1963; Vegetation Control Chemicals Used Extensively in USA, by Mary A. Sanders, USIA, Far East Desk, from information supplied by W.C. Shaw and W.B. Ennis, Jr.

Memorandum from W.C. Shaw to Mary H. Sanders, March 20, 1963, clearing Item 3 for technical accuracy.

- e. Each document in the possession, custody, or control of the United States Department of Agriculture that mentions a meeting between industry, United States Department of Agriculture, and Food and Drug Administration representatives on November 6 and 7, 1969.
- f. Each document in the possession, custody, or control of Dr. Ennis that mentions a meeting between

industry, United States Department of Agriculture, and Food and Drug Administration November 6 and 7, 1969.

- g. Each document in the possession, custody, or control of the United States Department of Agriculture that mentions a meeting of government representatives called by Dr. Lee A. DuBridge on October 28, 1969.
 - h. Each document in the possession, custody, or control of Dr. Ennis that mentions a meeting of government representatives called by Dr. Lee A. DuBridge on October 28, 1969.
- 2. June 18, 1982 Reminder from M. Gordon Concerning USDA. The Soil Conservation Service, Forest Service and Animal & Plant Health Inspection Service all report that either they have previously produced all documents concerning the subject matter in this lawsuit or they do not have any such documents in their files.
 - 3. January 13, 1983 Document Request from L. Rivkin re Agent Pink, Green and Purple Contracts. Mr. Rivkin requested production of all contracts between the United States and Dow concerning Agents Purple, Pink and Green. On January 21, 1983 this office transmitted the request to the Departments of Defense and Commerce. With the responses of those Departments, the United States has completed its efforts in response to this request.
 - a. The Department of Commerce has completed its search, but has not found any responsive documents. Commerce's centralized procurement office requires all that contracts be listed with that office. The Office of Procurement has maintained that system since the early 1960s. Commerce states that there is no evidence that

Commerce ever awarded such a contract. The National Bureau of Standards also could not locate any contracts. The only other agency with any remote connection to the request's subject matter is the International Trade Administration (Office of Industrial Resource Allocation). However, that office merely performs certain Defense Production Act functions and does not award contracts. Since the central repository, the Office of Procurement, had no record of any agreements, it is highly unlikely that the Office of IRA would have any such agreements. No other agency within Commerce has any remote connection with chemical contracts.

- b. The Department of Defense (DOD) also has completed its search for responsive documents. Mr. William Fenner testified that contracts were archived in Maryland. Mr. Fenner confirmed by telephone that he meant the Washington National Records Center in Suitland, Maryland. The Records Center has informed DOD that, in the normal course, it only retains contracts for six years and any earlier contracts were destroyed.

The Defense Logistics Agency (DLA) offices also searched for the contracts, but could not locate any copies. DLA did find the following contract numbers for Agents Orange and Purple although the files had previously been destroyed:

Agent Purple

DA-30-070-CML-1636	November 1961
DA-30-070-AMC-99(A)	December 5, 1962
NY3-1685	

Agent Orange

DSA-400-67-C-1820
DSA-4072-662-PC-409
DSA-400-67-C-4029

DSA-400-67-C-5534
DSA-400-67-C-8032
DSA-400-68-C-4929
DSA-400-68-C-6163

The Defense General Supply Center in Richmond, VA found a 1968 contract for Agent Orange produced by Hercules, Inc. This office has sent that document for microfilming as Batch No. 1967, entitled "Agent Orange Contract with Hercules, Inc. - 1968".

DOD also contacted the Armed Services Board of Contract Appeals. Of the two Dow cases on record, one did not involve herbicides and the file for the other had been destroyed. The latter case came out of the Defense Contract Administration office in Detroit and may have involved the Dow Midland plant. The available information indicated it involved a 1969-1971 contract.

No other DOD agencies were reasonably likely to have these documents within their files.

4. Footnote Material From Operation Ranch Hand

- a. On February 23, 1983 the Air Force transmitted to this office a list of classified documents that Major Buckingham may have referenced in Operation Ranch Hand. Declassification of these documents which do not refer or relate to the specifications, composition or toxicity of phenoxy herbicides or to dioxin will take at least 90 days. The Air Force has been unable to identify the originators of some 300 documents which will considerably slow down the declassification process. We have sent the list for microfilming as Batch No. 1970, entitled "Classified Buckingham Footnote Material unrelated to Specs. or Toxicity."

b. In addition, while compiling the list of classified documents, the Air Force discovered some additional unclassified documents relied upon by Major Buckingham in Operation Ranch Hand. We have sent these documents for microfilming as Batch No. 1971, entitled "Additional Unclassified Ranch Hand Material."

5. January 4, 1983 Request from L. LaPointe, Dow Chemical Co. Although this request emanated from Dow itself, the United States has viewed this request as a discovery request in this action. In this letter, Dow requested information concerning the role of a Government Inspector as it applies to Dow's government contracts for Agents Orange and White.

DOD has provided a copy of a position description for a Quality Assurance Specialist (Chemicals), GS-1910-11 dated February 25, 1977. No position description exists for the time frame requested by Dow. The duties, however, have not appreciably changed and the description provided is representative of the duties during the period in question.

DOD also has provided a copy of Defense Acquisition Regulation Section XIV which outlines the contractor and Government's responsibilities regarding product quality. To sort out the role of the Government Inspector, the terms and conditions of the contracts involved must be considered. In addition, MIL-I-4-5208, Inspector System Requirement, and MIL-Q-9858, Quality Program Requirement are available from the Naval Publication Center, 5801 Tabor Avenue, Philadelphia, PA 19120.

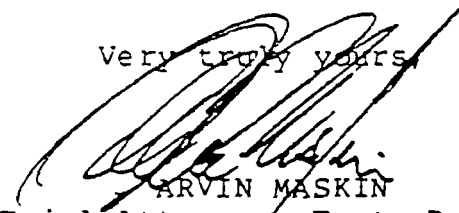
We have sent the documents provided to us by DOD filming as Batch No. 1966, entitled "Response to Dow's Request

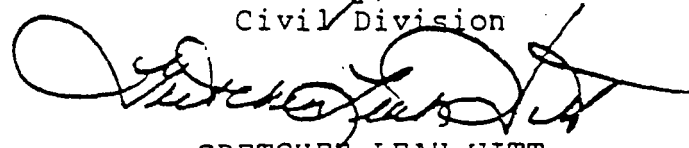
Re Air Force Product Quality Assurance Responsibility." In addition, we have attached the Government's response to Dow's request.

6. Army Document Production re Messrs. Sim, Miller, Cox, Callahan and Other Matters. On February 9, 1983 the Army transmitted to this office some new document production. Some of the production relates to depositions and includes Robert Cox's four notebooks that served as his daily journals while employed at Edgewood Arsenal. This material was sent for microfilming at Batch No. 1968, entitled "Follow-up Production: Sim, Miller, Cox, Callahan depositions and CSL New Find."
7. October 6, 1982 Request from L. Bennett re Dr. Avellino. By letter to this office dated February 9, 1983 the Army has indicated that it will complete its search for the requested documents by the end of the month.
8. December 6, 1982 Request from S. Pierce re Mr. Vocci. By letter to this office dated February 9, 1983 the Army has indicated that it will complete its search for the requested documents by the end of the month.

As always, if you have questions, please do not hesitate to contact us.

Very truly yours,


ARVIN MASKIN
Trial Attorney, Torts Branch
Civil Division


GRETCHEN LEAH WITT
Trial Attorney, Torts Branch
Civil Division

Attachment

9874



U.S. Department of Justice

EXPRESS MAIL

Washington, D.C. 20530

March 11, 1983

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NOTICE TO ALL COUNSEL

Re: In re "Agent Orange" Product
Liability Litigation, MDL No. 381

This Notice responds to Alan White's February 7, 1983 request for production of documents by the United States. Mr. White's request had two parts. The first dealt with the records of Perrine Primate Research Laboratory (Perrine) and the second dealt with the records of the Advanced Research Products Agency (ARPA). The response from the pertinent agencies follows:

1. Perrine: Mr. White requested any documents from Perrine "relating to dioxin, including any research by Perrine, any documents relating to the storage of dioxin at Perrine, and any requests from outside agencies for a sample or dioxin."

As suggested by Dr. Ross, EPA contacted the Health Effects Research Laboratory at Research Triangle Park, NC and the Environmental Monitoring Systems Laboratory at Las Vegas, NV about the records they inherited from Perrine. Neither of those facilities were able to locate any records concerning dioxin that were carried over from the repository activities of Perrine. Any responsive records of Dr. Courtney resulting from her tenure at Perrine were among the records made available for inspection by the parties on January 19, 1983. EPA has not provided copies of raw data (strip recorder charts) from the laboratory at Research Triangle Park. If the parties wish to inspect these records, EPA will make them available on site.

Other EPA facilities did locate some responsive material dating generally from 1973 and 1974. We have sent these documents for microfilming at Batch No. 1981, entitled "EPA Response to Request for Perrine Primate Research Lab. Documents."

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For the information of counsel, contrary to Dr. Ross' testimony, apparently Perrine did not store or distribute any dioxins prior to 1973. This information comes from the Chemistry Branch Chief and Deputy Director of Perrine during the years 1966 to 1973 who had responsibility for the operation of the Pesticide Repository.

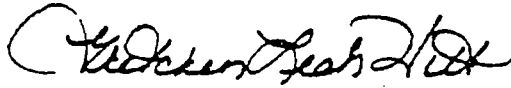
2. ARPA: Mr. White requested that ARPA produce any responsive documents not previously produced that pertain to issues in this litigation. On February 25, 1983 the United States sent out a Notice to All Counsel announcing the discovery of a variety of responsive documents by ARPA. The United States has sent those documents for microfilming as Batch No. 1972, entitled "Unclassified Documents Prepared by Defense Advanced Research Projects Agency," and Batch No. 1973, entitled "Unclassified Herbicide Documents in the Possession of DARPA."

As always, if you have any questions, please contact either of us.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Arvin Maskin", followed by a large, stylized flourish or mark.

ARVIN MASKIN
Trial Attorney, Torts Branch
Civil Division

A handwritten signature in dark ink, appearing to read "Gretchen Leah Witt", followed by a large, stylized flourish or mark.

GRETCHEN LEAH WITT
Trial Attorney, Torts Branch
Civil Division

Cadwalader, Wickersham & Taft

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March 14, 1983

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521 12th Street, N.W.
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Re: In re "Agent Orange" Product
Liability Litigation, MDL No. 381

Dear Arvin:

At the March 7, 1983 pre-trial conference in Uniondale we received the Government's Notice to All Counsel concerning alterations that were made to certain documents produced from Edgewood prior to their production. While defendants appreciate your attempt to compile the available information for the four CS compounds in question, in at least two important respects your response is incomplete.

First, in my letter to you of November 23, 1982, I expressed particular interest in "Compound B" (CS 125413) and requested all documents referring or relating to that compound, including relevant pages from the Industry Liaison Office's Commercial Source Sample Record Log. As you know, there has been ample deposition testimony by present and former Edgewood personnel that for each chemical compound assigned a new CS number, an entry was made in that Log which set forth, among other information, the name of the source for that compound, the employee in the Chemical or Biological Laboratory who requested a sample of that compound, the date that request was made, and the date the requested sample was received. For unexplained

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Arvin Maskin, Esq.

-2-

March 14, 1983

reasons, no excerpt from the Commercial Source Sample Record Log for CS 125413 was furnished or mentioned in your March 7 Notice. Accordingly, we would appreciate receiving a copy of each page from the Log concerning that compound as soon as possible.

Secondly, based on our prior discussions it had been my understanding that the identity of the sources who submitted CS 125413 and CS 66422 to the ILO for consideration would be disclosed as part of your response to our request for information concerning the altered Edgewood documents. That information is obviously essential to us in determining the extent of the knowledge obtained by Edgewood concerning those dioxin compounds. If you believe that information is protected from disclosure by some Government claim of privilege, please assert that claim immediately so that it may be resolved in accordance with the Special Master's recommended procedures for deciding such claims.

Thank you for your continuing assistance in answering the many questions that have arisen in connection with the Edgewood document production.

Very truly yours,



Michael M. Gordon

MMG/mam

BY EXPRESS MAIL

cc: Hon. Sol Schreiber
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* NOT ADMITTED IN NEW YORK

March 14, 1983

Arvin Maskin, Esq.
Torts Branch, Civil Division
United States Department of
Justice
Safeway Building
521 12th Street, N.W.
Washington, D.C. 20530

Re: Agent Orange Litigation

Dear Arvin:

During the deposition of Dr. Francis William Morthland on February 23, 1983, the witness testified that he prepared handwritten notes during, and subsequently prepared a written report of, the meeting held to discuss and evaluate the toxicity of 2,4-D and 2,4,5-T compounds at Edgewood Arsenal on April 26, 1963. The witness also testified that he prepared handwritten notes at, and may subsequently have prepared a written report of, the meeting of the President's Science Advisory Committee on May 9, 1963. The defendants hereby request production of all such documents.

In addition, Dr. Morthland testified that he was an employee of the Army Research Office, Life Sciences Division, Office of the Chief of Research and Development, and that the Army Research Office received copies of Dr. Hoffmann's trip reports. The defendants similarly request production of any documents of, or in the files maintained by, the Army Research Office, and any predecessor or successor,

9879

KELLEY DRYE & WARREN

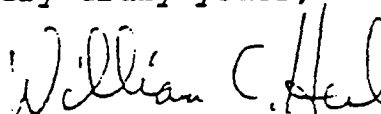
Arvin Maskin, Esq.

-2-

March 14, 1983

relating to dioxin, 2,4,5-T, Agent Purple, Agent Orange or the Hoffmann Trip Report dated October 5, 1959 (including the Report itself) prepared prior to 1970.

Very truly yours,

A handwritten signature in cursive script, appearing to read "William C. Heck".

William C. Heck

WCH:jm

cc: Hon. Sol Schreiber
Attached Service List

9880

BUDD, LARNER, KENT, GROSS, PICILLO & ROSENBAUM

A PROFESSIONAL CORPORATION

COUNSELLORS AT LAW.

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STEVEN A. WEINER
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GARY A. CARBONELLO
JOHN G. GUYET
JOHN P. BEYEL
ALBERT L. PEIA
PETER J. FRAZZA
JAMES M. MASCELLI
ALAN G. WHITE

March 28, 1983

CW&T

Rec'd
WBAH.

Arvin Maskin, Esq.
Department of Justice
Torts Branch, Civil Division
Safeway Building, Room 904D
321-12th Street, N.W.
Washington, D.C. 20530

RE: Agent Orange Litigation

Dear Arvin:

Enclosed please find a copy of a letter from Ralph Wands, Director of the Advisory Center on Toxicology, National Academy of Sciences to the Chief, Preventative Medicine Division, Office of the Army Surgeon General dated August 31, 1966. In this letter Mr. Wands is supplying certain requested information to the Army. The first part of the letter indicates that they requested the information on July 22, 1966. Please have the files of the Preventative Medicine Division searched for any correspondence between the Preventative Medicine Division and the Advisory Center on Toxicology, especially the July 22, 1966 request. We also request any documents relating to the Surgeon General's request.

Also enclosed is a July 6, 1966 letter from Chief, Bureau of Medicine and Surgery, Department of the Navy to the Advisory Center of Toxicology requesting, inter alia, information on the dermatological affects on 2,4,5-T. We request documents from the Department of the Navy relating to this request.

Very truly yours,

Alan G. White

9881

AGW:cc
cc: All Defense Counsel



U.S. Department of Justice

EXPRESS MAIL

JMB:GLWitt:bf
157-0-107

Washington, D.C. 20530

March 30, 1983

Telephone:
(202) 724-6725

NOTICE TO ALL COUNSEL

Re: In Re "Agent Orange" Product
Liability Litigation, MDL No. 381

This Notice confirms information that Mr. Maskin conveyed to the parties on the record at the March 28, 1983 hearing before Special Master Schreiber. At that hearing, Mr. Maskin gave the United States' response to the defendants' request for reconstruction of the distribution list of the Hoffman Report. In addition, this Notice responds to Mr. Gordon's request for additional information concerning certain CS compounds.

1. Hoffman Distribution List. As requested by Dow, the United States has reconstructed the distribution list for the Hoffman Report by matching names with the positions listed on the Report's distribution list. The names given consist of the people who held the positions as of October 5, 1959, the date of the Hoffman Report. In two instances, the Army also has listed a second name where a new person assumed a position shortly after the date of the Report. In two other instances, the Army also has listed the civilian counterpart of the military officer holding the position. The parties should note that, although civilian employees typically would have a long tenure with the institution, military personnel would not.

The United States would like to point out that, despite defendants' insistence that they have no information that could have assisted the United States in assembling this list, the defendants apparently have deposed four of the people named on the list. In addition, a fifth apparently went to work for Dow following his retirement from the military.

The distribution list with the names listed next to the corresponding numbers from the distribution list attached to the Hoffman Report follows:

11-13	Brigadier General (BG) Graydon C. Essman BG Fred J. Delmore assumed command in January 1960
14	Colonel Roy W. Muth
15	Colonel Charles H. McNary
16	Colonel Donald E. Yanka
17	Dr. Seymor D. Silver
18	Colonel David Armitage
19	Colonel Donald G. Grothaus Colonel Laverne A. Parks assumed command in December 1959 Scientific Director Riley D. Housewright
20	William H. Summerson
21	Mr. Saul Hormats
22	Lieutenant Colonel Douglas Lindsay Deputy Director Dr. Van Sim
24	Dr. Friedrich W. Hoffman

2. Commercial Source Compounds. On March 14, 1983 Mr. Gordon made some additional requests for information concerning certain Commercial Source compounds that have been the subject of considerable correspondence between the United States and Mr. Gordon.

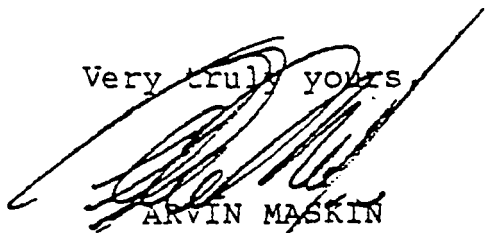
First, Mr. Gordon requested production of all Industrial Liaison Office Commerical Source Sample Record Log for compound 125413. The Army has informed us that compound 125413 is not a "CS" compound. It is a proprietary chemical tested under a separate contract. Consequently, no Commerical Source Sample Record Log exists for this compound.

Second, although the United States has no record of a request for the names of the sources for compounds 125413 and CS66422, from the defendants other than Mr. Gordon's March 14

letter and a recent request at a hearing, the Army is seeking permission from the source to release the names of the sources. We will provide this information to the parties as soon as the companies involved grant permission for release.

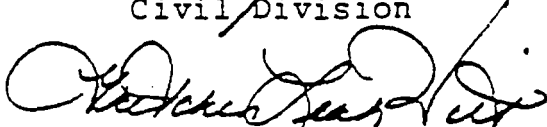
As always, if you have any questions, please call either of us.

Very truly yours



ARVIN MASKIN

Trial Attorney, Torts Branch
Civil Division



GRETCHEN LEAH WITT

Trial Attorney, Torts Branch
Civil Division

Cadwalader, Wickersham & Taft
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April 5, 1983

Arvin Maskin, Esq.
Torts Branch, Civil Division
United States Department of
Justice
Safeway Building
521 12th Street
Washington, D.C. 20530

Re: In re "Agent Orange" Product
Liability Litigation, MDL No. 381

Dear Arvin:

During the deposition of William H. Summerson on March 22, 1983, the witness testified he had in his personal files copies of all correspondence that he sent or received during his term at Edgewood Arsenal. The defendants hereby reiterate their request made at Dr. Summerson's deposition for production of that portion of Dr. Summerson's correspondence that is responsive to Defendants' Phase I First Wave Interrogatories, dated January 15, 1981, or to the subpoena to the United States Army Chemical Systems Laboratory, dated May 17, 1982.

In addition, Dr. Summerson testified that he prepared a trip report for General Delmore's office concerning Summerson's trip to Viet Nam in the mid-1960's. Defendants similarly request production of that trip report.

Very truly yours,

John F. Mariani
John F. Mariani

JFM:fg

cc: Hon. Sol Schreiber
Loretta Anderson, AUSA
Attached Service List

9885

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----x
In re

"AGENT ORANGE"

Product Liability Litigation

DEFENDANTS' REQUEST FOR
PRODUCTION OF DOCUMENTS
DIRECTED TO THE UNITED
STATES OF AMERICA RE:
UNITED STATES ARMY
CHEMICAL CORPS INTEL-
LIGENCE AGENCY

-----x MDL No. 381

PLEASE TAKE NOTICE that, pursuant to Rule 34 of the Federal Rules of Civil Procedure, the undersigned defendants request the United States of America to produce for inspection and copying the documents requested herein which are in the possession, custody or control of the United States Army Chemical Corps Intelligence Agency, the United States Army Foreign Science and Technology Center, and their respective successor agencies or offices, if any, within thirty days of service of this Notice or such other date as may be directed by the Special Master.

DOCUMENTS REQUESTED

In accordance with the definitions and instructions set forth in Defendants' Phase I First Wave Interrogatories (First Set) dated January 15, 1981, a copy of which is annexed hereto as Exhibit A, you are requested to produce the following documents for inspection and copying by defendants:

1. All documents that refer or relate to proposed research, development, testing, evaluation or use of dioxin as a chemical warfare agent.

9886

2. All documents that refer or relate to research, development, testing, evaluation or use of dioxin as a chemical warfare agent.

3. All documents not called for in response to paragraphs 1 or 2 relating to any communication to or from Edgewood Arsenal (including but not limited to all communications to or from Alexander Batlin, Dr. Nathan Gordon, Col. (Dr.) W. Northland (or Morthland), General Stubblefield, or any agent, employee or representative of the United States Army Chemical Corps Intelligence Agency ("CCIA") or any predecessor or successor agency thereof), which refer or relate to dioxin, trichlorophenol, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including Agent Orange, Agent Pink, Agent Purple and Agent Green.

4. All documents not called for in response to paragraphs 1 or 2 relating to any communications to or from Fort Detrick (including but not limited to all communications to or from Alexander Batlin, Dr. Nathan Gordon, Col. (Dr.) W. Northland (or Morthland), General Stubblefield, or any agent, employee or representative of the CCIA or any predecessor or successor agency thereof), which refer or relate to dioxin, trichlorophenol, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including Agent Orange, Agent Pink, Agent Purple and Agent Green.

5. All documents not called for in response to paragraphs 1 or 2 relating to any communication to or from the United States Public Health Service (including but not limited to all communications to or from Alexander Batlin, Dr. Nathan Gordon, Col. (Dr.) W. Northland (or Morthland), General Stubblefield, or any agent, employee or representative of the CCIA or any predecessor or successor agency thereof), which refer or relate to dioxin, trichlorophenol, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including Agent Orange, Agent Pink, Agent Purple and Agent Green.

6. All documents not called for in response to paragraphs 1, 2, 3, 4 or 5 and which refer or relate to dioxin, trichlorophenol, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including Agent Orange, Agent Pink, Agent Purple and Agent Green.

7. All copies of studies, reports, publications and other literature which refer or relate to dioxin, trichlorophenol, 2,4,5-trichlorophenoxyacetic acid, 2,4-dichlorophenoxyacetic acid, or an ester, amine, salt or other form thereof, including but not limited to any of the following:

- (a) Kimmig, J., Schulz, K.H.:
Chlorierte aromatische Zyklische Ather als

Ursache der sogenannten Chlorakne,
Naturwissenschaften 44,337-338 (1957);

- (b) Kimmig, J., Schulz, K.H.:
Berufliche Akne (sog. Chlorakne)
durch chlorierte aromatische zyklische
Ather, Dermatologica 115,540-546 (1957);
- (c) Schulz, K.H.:
Klinische und experimentelle Untersuchungen
zur Aetiologie der Chlorakne, Arch. Klin. Exp.
Dermatol. 206,589-596 (1957);
- (d) Bauer, H., Schulz, K.H., Spiegelberg, U.:
Berufliche Vergiftungen bei der Herstellung
von Chlorphenol-Verbindungen, Arch. Gewerbe-
pathol. Gewerbehyg. 18,538-555 (1961);
- (e) Sandermann, W., Stockmann, H., Casten, R.:
Über die Pyrolyse des Pentachlorphenols,
Chem. Ber. 90,690-692 (1957);
- (f) Bleiberg, J., Wallen, M., Brodtkin, R.,
Appelbaum, I.L.:
Industrially acquired porphyria, Arch.
Dermatol. 89,793-797 (1964); and
- (g) Jones, E.L., Krizek, H.:
A Technic for Testing Acnegenic Potency
in Rabbits, Applied to the Potent Acnegen,
2,3,7,8-Tetrachlorodibenzo-P-Dioxin,
Journal of Investigative Dermatology 511 (1962).

8. All documents that refer or relate to a meeting held to discuss and evaluate the toxicity of 2,4-D and 2,4,5-T compounds on April 26, 1963 at Edgewood Arsenal, Maryland, including but not limited to all minutes of said meeting and all data, reports, medical literature, appendices and other documents referred to in the minutes.

9. All organization charts for each division, branch, section and other unit of the CCIA and all predecessors or successors thereto from January 1, 1956 to January 1, 1972.

10. All documents not called for in response to the preceding paragraphs that are responsive to Defendants' Phase I First Wave Interrogatories (First Set) dated January 15, 1981 (Exhibit A hereto), but which have not yet been produced to the parties by the United States of America in In re "Agent Orange" Product Liability Litigation, MDL No. 381.

Dated: Garden City, New York
October 4, 1982

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To: Attached Service List

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The Counsel of Vietnam Veterans
329 Eighth Street, N.E.
Washington, D.C. 20002

Patricia D. Howard
Chief of the Judicial Panel
on Multidistrict Litigation
1120 Vermont Avenue, N.W.
Suite 1002
Washington, D.C. 20005

YANNAACONE & YANNAACONE

Professional Corporation

Attorneys and Counselors at Law

Victor J. Yannacone (deceased)
Victor John Yannacone, jr.
W. Keith Kavenagh, Ph.D.
Michael T. Sullivan

	Area Code 516
Workers Compensation Division:	475-0231 (nights also)
Retirement & Social Security Division:	654-0231
Medical-Legal & Litigation Division:	654-2299
General Practice Division:	654-2222
Environmental, Consumer &	
Public Interest Law Division:	654-2662

20 April 1983

FILED
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U. S. DISTRICT COURT E.D. N.Y.

★ APR 20 1983 ★

TIME A.M. _____
P.M. _____

Rivkin, Leff, Sherman & Radlery, Esqs.
100 Garden City Plaza
Garden City, New York 11530

re: "Agent Orange" Product Liability Litigation MDL381
Depositions of Dow Corporate Executives

Dear counselors:

In addition to those witnesses whose depositions have already been noticed please arrange to produce the following individuals who are officers and directors of your client, The Dow Chemical Company:

Paul F. Dreffice: Director, President and Chief Executive Officer, Chairman of the Executive Committee, Member of the Investment Policy Committee, Member of the Committee on Directors; and

Robert W. Lundeen: Director, Executive Vice President, Chairman of the Investment Policy Committee, Member of the Executive Committee, Member of the Public Interest Committee, Member of the Committee on Directors; each of whom the plaintiff veterans believe should be aware of the corporate policy concerning the sale of dioxin contaminated products to United States Government Agencies, other chemical companies, and consumers; as well as knowledgeable about the corporate policy concerning disclosure of toxic effects associated with company products and processes. Plaintiff veterans believe Mr. Lundeen should be aware of the problems associated with the buildings and materials involved in the production and handling of chlorinated phenols. Plaintiffs understand that Mr. Lundeen has recently taken the position of public spokesman for Dow Chemical Company on the lack of evidence of risk to human health associated with exposure to dioxin contaminated products.

These witnesses should be produced forthwith.

9894

YANNACONE & YANNACONE

Professional Corporation

Attorneys and Counselors at Law

The need for these additional depositions has been occasioned by the sudden shift in emphasis on government discovery by DOW and the other corporate defendant war contractors. The Plaintiff veterans now intend to establish through the testimony of the DOW Executives named the relationships which existed between the top management of DOW and Government Executives in the Department of Defense, Federal Regulatory Agencies such as the Food and Drug Administration and the Department of Agriculture, and the Executive Offices of the President of the United States.

It should come as no surprise that the Plaintiff veterans contend that not only did the corporate defendant war contractors which include The Dow Chemical Company withhold information from the Department of Defense during the Viet Nam War and the EPA and USDA and the Veterans Administration after the war, but that contacts between executives of Dow and high level federal officials occurred at which DOW executives could have and should have informed the high level decision makers in government about the hazards associated with exposure to TCDD contaminated products, but that in fact no such disclosures were ever made. The Plaintiff veterans also intend to establish that active concealment and misrepresentation about the hazards associated with exposure to dioxin contaminated products continues today.

Very truly yours,

YANNACONE & ASSOCIATES

Victor John Yannacone, Jr.

VJYJr:9

by hand to all parties at Pre-Trial Hearing 20-Apr-83
by regular mail to all other parties on service list

9395

YANNAcone & YANNAcone

Professional Corporation

Attorneys and Counselors at Law

Victor J. Yannacone (deceased)
Victor John Yannacone, jr.
W. Keith Kavenagh, Ph.D.
Michael T. Sullivan

	Area Code 516
Workers Compensation Division:	475-0231 (nights also)
Retirement & Social Security Division:	654-0231
Medical-Legal & Litigation Division:	654-2299
General Practice Division:	654-2222
Environmental, Consumer &	
Public Interest Law Division:	654-2662

20 April 1983

Townley & Updike, Esqs.
Chrysler Building
405 Lexington Avenue
New York City, NY 10174

FILED
IN CLERK'S OFFICE
U. S. DISTRICT COURT E.D. N.Y.

★ APR 20 1983 ★

TIME A.M. _____

re: "Agent Orange" Product Liability Litigation MDL381
Depositions of Monsanto Corporate Executives

Dear counselors:

In addition to those witnesses whose depositions have already been noticed and to which you have raised objections, please add the following individuals:

John W. Hanley: Director, Chairman of the Board and Chief Executive Officer; Chairman of the Executive Committee and Member of the Finance Committee; who the plaintiff veterans believe should be aware of the corporate policy concerning the sale of dioxin contaminated products to United States Government Agencies, other chemical companies, and consumers; as well as knowledgeable about the corporate policy concerning disclosure of toxic effects associated with company products and processes.

Francis E. Reese: Director, Senior Vice President-Facilities & Materiel; who the plaintiff veterans believe should be aware of the problems associated with the buildings and materials involved in the production and handling of chlorinated phenols.

These witnesses should be produced forthwith and there should be no substantial hardship to the corporate Defendant Monsanto.

9896

YANNACONE & YANNACONE

Professional Corporation

Attorneys and Counselors at Law

The need for these additional depositions has been occasioned by the sudden shift in emphasis on government discovery by your client and the other corporate defendant war contractors. The plaintiff veterans now intend to establish through the testimony of the Monsanto Executives named the relationships which existed between the top management of Monsanto and Government Executives in the Department of Defense, Federal Regulatory Agencies such as the Food and Drug Administration and the Department of Agriculture, and the Executive Offices of the President of the United States.

It should come as no surprise that the plaintiff veterans contend that not only did the corporate defendant war contractors which include Monsanto Company withhold information from the Department of Defense during the Viet Nam War and the EPA and USDA and the Veterans Administration after the war, but that contacts between executives of Monsanto and high level federal officials occurred at which Monsanto executives could have and should have informed the high level decision makers in government about the hazards associated with exposure to TCDD contaminated products, but that in fact no such disclosures were ever made. The plaintiff veterans also intend to establish that active concealment and misrepresentation about the hazards associated with exposure to dioxin contaminated products continues today.

It seems disingenuous at best for Townley & Urdike to complain about 7 additional depositions of Monsanto employees when Monsanto and the other corporate defendants have noticed over 60 depositions of government witnesses at this time, with the threat of at least that many more. To complain that Townley & Urdike would have to review "thousands of pages of Monsanto documents" seems to imply that you have not reviewed the Monsanto Company documents before this date. That, of course, can not be the case based on your assurance to the Court that you made diligent production of all documents. The Monsanto argument neatly overlooks their late production of some reasonably significant documents less than two weeks ago that were "overlooked."

We are somewhat surprised at why it requires three or more days on the part of two lawyers at Townley & Urdike to conduct a deposition of a client employee. It also appears somewhat ludicrous for Townley & Urdike --a not inconsequential law firm-- and Monsanto Company --a Fortune 500 corporation-- supported as they both are by competent in-house counsel to complain about the additional burden that 7 depositions will occasion yet ignore the

9897

YANNAKONE & YANNAKONE

Professional Corporation

Attorneys and Counselors at Law

20 April 1983

Townley & Urdike

-Page 3-

substantial hardship that preparing for 60 depositions of government witnesses imposes on the plaintiff veterans and their counsel "who, throughout the last year have been responsible for preparing and defending [government] depositions." To further place the Monsanto position on these additional depositions in proper perspective, we intend to remind the Court that counsel for the veterans involved in those government depositions are the "same group [that] has been and is responsible for, and is deeply engaged in, preparing for and trial and the pretrial order the proof of the [veterans'] specific case (as distinct from the evidence of [the lack of] government knowledge."

On behalf of the plaintiff veterans we too will seek resolution of this issue by the Special Master at the hearing on 20 April 1983 in Uniondale.

Very truly yours,

YANNAKONE & ASSOCIATES

Victor John Yannacone, Jr.

VJYJr:u

by hand to all parties at Pre-Trial Hearing 20-Apr-83
by regular mail to all other parties on service list

9898

Cadwalader, Wickersham & Taft

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★ APR 22 1983

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April 19, 1983

Victor J. Yannacone, Jr., Esq.
Yannacone & Yannacone
P. O. Drawer 109
62 Rose Avenue
Patchogue, New York 11772

Re: In re "Agent Orange" Product Liability
Litigation, MDL No. 381

Dear Victor:

I enclose Diamond Shamrock's Supplemental Index of Documents Responding to Plaintiffs' Interrogatories to Defendants (First Wave), dated April 19, 1983, which supplements the Revised Index of June 25, 1982. The documents referenced by the Supplemental Index are available for microfilming or, as you have done in the past, for review at our offices to identify those documents you would like to order.

Pursuant to the Court's protective order dated February 6, 1981, we will serve within the next several days a Notice of Confidentiality and Updated Index of Confidential Documents that identifies the documents referenced by the Supplemental Index which Diamond Shamrock has designated as "Confidential".

I also enclose copies of Diamond Shamrock Doc. Nos. 00019554-55, 00016190-98, 00016643-48 and 00019517A, which were inadvertently omitted from the documents that were previously sent at your request to Mathias & Carr for microfilming.

If you have any questions concerning the documents referenced by the Supplemental Index, please contact me as soon as possible.

Very truly yours,

Michael M. Gordon
Michael M. Gordon

BY COURIER
MMG/mam

Enclosures

cc(w/Supplemental Index): Hon. Sol Schreiber
Clerk of the Court
Service List

9899

1218

SERVICE LIST

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COPIES OF ALL DOCUMENTS MUST
BE SENT TO:

Clerk of the Panel
Judicial Panel on Multidistrict
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1120 Vermont Avenue, N.W.
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IN CLERK'S OFFICE
U.S. DISTRICT COURT E.D.N.Y.

★ APR 22 1983 ★

TIME A.M. _____
P.M. _____

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----X

In re :

"AGENT ORANGE" :

MDL No. 381

Product Liability Litigation :

-----X

DIAMOND SHAMROCK'S SUPPLEMENTAL
INDEX OF DOCUMENTS RESPONDING
TO PLAINTIFFS' INTERROGATORIES
TO DEFENDANTS (FIRST WAVE),
DATED APRIL 19, 1983

CADWALADER, WICKERSHAM & TAFT
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

One Wall Street

New York, N.Y. 10005

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(212) 908-7000

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DOCUMENT NUMBERS	SOURCE	FOLDER TITLE (OR OTHER FILE DESCRIPTION)	INTERROGATORIES TO WHICH RESPONSIVE
00025137- 00025153	Ag Chem Registration Room	Phenoxy - Aquatic - Including Fish Toxicity	3, 4A, B, C [p. 11] and 4D, E
00025154- 00025231	Ag Chem Registration Room	Phenoxy - Brush Data	4A, B, C [p. 11]
00025406- 00025464	Ag Chem Registration Room	Phenoxy - Rangelands - Ditchbanks, etc.	4A, B, C [p. 11]
00025465- 00025510	Ag Chem Registration Room	Phenoxy - Miscellaneous	4A, B, C [p. 11]
00025547- 00025700	Ag Chem Registration Room	Phenoxy - Weed Data	4A, B, C [p. 11]
00025726- 00025792	Ag Chem Registration Room	2,4-D General	4A, B, C [p. 11]
00025793- 00025810	Ag Chem Registration Room	2,4-D - Registration Status	4A, B, C [p. 11] and 4D, E, T

DOCUMENT NUMBERS	SOURCE	FOLDER TITLE (OR OTHER FILE DESCRIPTION)	INTERROGATORIES TO WHICH RESPONSIVE
00026656- 00026685	Ag Chem Registration Room	2,4,5-TP	3, 4A, B, C [p. 11] and 4D, E, T
00026686- 00026716	Ag Chem Registration Room	2,4,5-T	3, 4A, B, C [p. 11] and 4D, E, T
00026717- 00026747	Files of F.G. Steward	Newark Product Files: Esters - Via Propylene	4A, B, C [p. 11] and 4I, J, P
00026748- 00026916	Files of F.G. Steward	Newark Product Files: Ester - Continuous Process Studies	4A, B, C [p. 11] and 4I, J, P
00026917- 00027014	Files of F.G. Steward	Unititled Binder Containing Product Specifications	4A, B, C [p. 11]
00027015- 00027084	Files of F.G. Steward	Specification Manual - Newark Products	4A, B, C [p. 11]
00027085- 00027103	Files of F.G. Steward	Supervisors' Manual - Lab Procedures for Tests Run by Shift Supervisors	4A, B, C [p. 11] and 4I, P

DOCUMENT NUMBERS	SOURCE	FOLDER TITLE (OR OTHER FILE DESCRIPTION)	INTERROGATORIES TO WHICH RESPONSIVE
0027104- 0027170	Files of F.G. Steward	Newark Product Files: D & T Amines	4A, B, C [p. 11] and 4I, J, P
0027171- 0027223	Files of F.G. Steward	Newark Plant - Ag Chem Division 1968 Standard Cost	4A, B, C [p. 11] and 4I, P
0027782- 0027783	T.R. Evans Research Center Library Files	Thornton F. Holder Correspondence - 1960	4I, P
0027784- 0027805	Files of Operations Manager, Ag Chem Division	Untitled Folder	4A, B, C [p. 11] and 4I, J, P
0027806- 0027856	Archives of Health and Envi- ronmental Affairs Department	Cancelled Plant/Pollution Files: Newark, N.J.	4A, B, C [p. 11] and 4I, J, K, P

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DOCUMENT NUMBERS	SOURCE	FOLDER TITLE (OR OTHER FILE DESCRIPTION)	INTERROGATORIES TO WHICH RESPONSIVE
00027857- 00027865	Former Files of Industrial Hygiene Foundation of America, Inc., Located in Diamond Shamrock Health and Environmental Affairs Department	Diamond Alkali Co., Newark, N.J., Dec. 1955-Jan.1956, First Report on Evaluation of Chloracne- Producing Potential of Various Chlorinated Organic Compounds, For ... By: Westrick, Gross, and Schrenk	3 and 4D, E, T
00027866- 00027875	Former Files of Industrial Hygiene Foundation of America, Inc., Located in Diamond Shamrock Health and Environmental Affairs Department	Diamond Alkali Co., Newark, N.J., Feb. 1956, 2nd Report on Evaluation of Chloracne- Producing Potential of Various Chlorinated Organic Compounds, (6 Samples Designated S,T,U,V,W, and X) - Dated 2/29/56; By: Westrick, Gross, Schrenk	3 and 4D, E, T
00027876- 00027888	Former Files of Industrial Hygiene Foundation of America, Inc., Located in Diamond Shamrock Health and Environmental Affairs Department	Diamond Alkali Co., Newark, N.J., June 1956, "Third Report on Evaluation of Chloracne- Producing Potential of Various Chlorinated Organic Compounds" By: Westrick, Gross, Schrenk	3 and 4D, E, T

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DOCUMENT NUMBERS	SOURCE	FOLDER TITLE (OR OTHER FILE DESCRIPTION)	INTERROGATORIES TO WHICH RESPONSIVE
0027889- 0027902	Former Files of Industrial Hygiene Foundation of America, Inc., Located in Diamond Shamrock Health and Environmental Affairs Department	Diamond Alkali Co., Newark, N.J., July 1957, "Fourth Report on Evaluation of Chloracne- Producing Potential of Various Chlorinated Organic Compounds" By: Westrick, Gross, Schrenk	3 and 4D, E, T
0027903- 0027914	Former Files of Industrial Hygiene Foundation of America, Inc., Located in Diamond Shamrock Health and Environmental Affairs Department	Diamond Alkali Co., Newark, N.J., October 1957, "Fifth Report on Evaluation of Chloracne- Producing Potential of Various Chlorinated Organic Compounds" By: Westrick, Gross, Schrenk	3 and 4D, E, T
0027915- 0027927	Former Files of Industrial Hygiene Foundation of America, Inc., Located in Diamond Shamrock Health and Environmental Affairs Department	Diamond Alkali Co., Newark, N.J., November 1957, "Sixth Report on Evaluation of Chloracne- Producing Potential of Various Chlorinated Organic Compounds" By: Westrick, Gross, Schrenk	3 and 4D, E, T

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DOCUMENT NUMBERS	SOURCE	FOLDER TITLE (OR OTHER FILE DESCRIPTION)	INTERROGATORIES TO WHICH RESPONSIVE
00027928- 00027936	Former Files of Industrial Hygiene Foundation of America, Inc., Located in Diamond Shamrock Health and Environmental Affairs Department	Diamond Alkali Co., Newark, N.J., January 1960, "Seventh Report on Evaluation of Chloracne- Producing Potential of Various Chlorinated Organic Compounds"	3 and 4D, E, T
00027937- 00027950	Former Files of Industrial Hygiene Foundation of America, Inc., Located in Diamond Shamrock Health and Environmental Affairs Department	Diamond Alkali Co., Newark, N.J., June-August 1962, "Eighth Report on Evaluation of Chloracne- Producing Potential of Various Chlorinated Organic Compounds"	3 and 4D, E, T
00027951- 00027959	Former Files of Industrial Hygiene Foundation of America, Inc., Located in Diamond Shamrock Health and Environmental Affairs Department	Diamond Alkali Co., Newark, N.J., Aug.-Sept. 1963, 9th Report on Evaluation of Chloracne-Producing Potential of Various Chlorinated Organic Compounds"	3 and 4D, E, T

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DOCUMENT NUMBERS	SOURCE	FOLDER TITLE (OR OTHER FILE DESCRIPTION)	INTERROGATORIES TO WHICH RESPONSIVE
00027960- 00027962	Diamond Shamrock Patent Department	Issued Patents Binder	4A, B, C [p. 11] and 4P
00027963- 00027993	Diamond Shamrock Law Department	Contracts: Purchasing U.S. Gov't - Def. Supply Agcy.	2B(i) and 4A, B [p. 9]
00027994- 00028007	Diamond Shamrock Law Department	Litigation and Claims Against Diamond Colombia	4D, E, F, Q, T
00028008- 00028009	Diamond Shamrock Law Department	Working Agreement - Newark Plant 1961, 1962, 1963	3 and 4D, F, G, Q
00028010- 00028032	Diamond Shamrock Law Department	Employee Relations: Labor - Niosh TCDD Questionnaire Newark	3 and 4D, F, G, K, Q, T
00028033- 00028094	T.R. Evans Research Center Library Files	Benzene, Tri & Tetrachloro 1954 to	4A, B, C [p. 11] and 4H, I, J, P

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00028095- 00028098	T.R. Evans Research Center Library Files	Benzene, Chlorinated	3 and 4E, I, J, P
00028099- 00028119	Files of Analytical Services, T.R. Evans Research Center	Miscellaneous Documents	4A, B, C [p. 11]
00028120- 00028127	Registration Department, Ag. Chem. Division	Material Safety Data Sheets	4B [p. 11]
00028128- 00028170	Ag. Chem. Commercial Development/Technical Group	Ag. Chem. Literature Master Binder	4A, B, C [p. 11]
00028171- 00028237	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	03-00-677-4E Appropriation Request...1	4A, B, C [p. 11] and 4I, J, P

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00028238- 00028285	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	03-00-6774E Calculations - TCP #3-1	4A, B, C [p. 11] and 4I, J, P
00028286- 00028354	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	Cost Estimates 1960	4A, B, C [p. 11] and 4I, J, P
00028355- 00028394	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	03-00-6774E General Correspondence	4A, B, C [p. 11] and 4I, J, P
00028395- 00028622	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	03-00-6774E TCP General Correspondence...5-1	4A, B, C [p. 11] and 4I, J, P

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00028623- 00028653	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	General Correspondence - FIA Requirements	4A, B, C [p. 11] and 4I, J, P
00028654- 00028656	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	Office - Laboratory - Solvents Building	2B(iii)
00028657- 00028693	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	2,4-D Building	4A, B, C [p. 11] and 4I, J, P
00028694- 00028730	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	Specifications	4A, B, C [p. 11] and 4I, J, P

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0028731- 0028745	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	03-00-6774E Specifications TCP	4A, B, C [p. 11] and 4I, J, P
0028746- 0028808	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	03-00-6774E Design Report	4A, B, C [p. 11] and 4I, J, P
0028809- 0028834	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	Engineering - Progress Reports From Engineers Inc.	4A, B, C [p. 11] and 4I, J, P
0028835- 0028838	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	03-00-6774 Construction Progress Reports	4A, B, C [p. 11] and 4I, J, P

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0028839- 0028897	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-00-6774E Newark Plant Rehabilitation - Preliminary Engineering"	Engineering - Investigation of Explosion	4A, B, C [p. 11] and 4I, J, P
0028898- 0028930	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-39-6739 2,4-D and 2,4,5-T Acid Expansion"	03-39-6739 Appropriation Request	4A, B, C [p. 11] and 4I, J, P
0028931- 0028947	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-39-6739 2,4-D and 2,4,5-T Acid Expansion"	03-39-6739 Appropriation Supplement	4A, B, C [p. 11] and 4I, J, P
0028948- 0028949	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-39-6739 2,4-D and 2,4,5-T Acid Expansion"	03-39-6739 Appropriation Records and Correspondence	4A, B, C [p. 11] and 4I, J, P

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00028950- 00028962	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-39-6739 2,4-D and 2,4,5-T Acid Expansion"	03-39-6739 Capital Cost Estimates	4A, B, C [p. 11] and 4C, J, P
00028963- 00029005	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-39-6739 2,4-D and 2,4,5-T Acid Expansion"	03-39-6739 Correspondence	4A, B, C [p. 11] and 4C, J, P
00029006- 00029037	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-39-6739 2,4-D and 2,4,5-T Acid Expansion"	03-39-6739 Project Review Meetings	4A, B, C [p. 11] and 4C, J, P
00029038- 00029085	Engineering Records (Appropriations) in T.R. Evans Research Center Library For "03-39-6739 2,4-D and 2,4,5-T Acid Expansion"	03-39-6739 Permits	4A, B, C [p. 11] and 4C, J, K, P
00029086- 00029110	Engineering Records (Studies) in T.R. Evans Research Center Library For "NF-00-2 Orienting Cost Estimate for Rebuilding Newark Plant"	NF-00-2 Newark Rehabilitation	4A, B, C [p. 11] and 4C, J, P

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00029111- 00029118	Engineering Records (Studies) in T.R. Evans Research Center Library For "NF-00-2 Orienting Cost Estimate for Rebuilding Newark Plant"	NF-00-2 TCP Autoclave	4A, B, C [p. 11] and 4I, J, P
00029119- 00029152	Engineering Records (Studies) in T.R. Evans Research Center Library For "NF-51-5 Moderniza- tion of 2,4-D and 2,4,5-T Acid Facilities"	NF-51-5 Calculations	4A, B, C [p. 11] and 4I, J, P
00029153- 00029166	Engineering Records (Studies) in T.R. Evans Research Center Library For "NF-51-6 Efficiency Improvement of 2,4-D and 2,4,5-T" -	NF-51-6 Calculations	4A, B, C [p. 11] and 4I, J, P
00029167- 00029210	Engineering Records (Studies) in T.R. Evans Research Center Library For "NF-51-6 Efficiency Improvement of 2,4-D and 2,4,5-T" -	Efficiency Improvement of 2,4-D and 2,4,5-T Study NF-51-6	4A, B, C [p. 11] and 4I, J, P

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0029211- 0029212	Engineering Records (Studies) in T.R. Evans Research Center Library For "00-06-016 Agent Orange Chlorinolysis"	00-06-016 "Agent Orange Chlorinolysis" FLDR 1 of 2	4K
0029213- 0029261	Engineering Records (Studies) in T.R. Evans Research Center Library For "00-06-016 Agent Orange Chlorinolysis"	00-06-016 "Agent Orange Distillation Process Group Central File"	4A, B, C [p. 11] and 4K
0029262- 0029324	Engineering Records (Studies) in T.R. Evans Research Center Library For "03-00-013 Project 'Orange' Study - Muscle Shoals"	Loose Material	4A, B, C [p. 11] and 4I, J, P
0029325- 0029339	Engineering Records (Studies) in T.R. Evans Research Center Library For "03-00-013 Project 'Orange' Study - Muscle Shoals"	03-00-13 Project "Orange"	2B(i), (ii), (iii); 4A, B, C(iv) [p. 9] and 4A, B, C [p. 11]

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0029340- 0029375	Engineering Records (Studies) in T.R. Evans Research Center Library For "03-00-013 Project 'Orange' Study - Muscle Shoals"	Unlabeled	2B(i), (ii), (iii); 4A, B, C(iv) [p. 9] and 4A, B, C, [p. 11]
0029376- 0029377	Engineering Records (Studies) in T.R. Evans Research Center Library For "03-31-008 2,4-D and 2,4,5-T Acid Expansion"	03-31-3 Study Request	4A, C [p. 11]
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0029389- 0029402	Engineering Records (Pictures) in T.R. Evans Research Center Library	Newark Plant Pictures 1960-61 (03-00-6774?)	4I, P
0029403- 0029407	Engineering Records (Pictures) in T.R. Evans Research Center Library	03-39-6739 Design Pictures	4I, P
0029408- 0029733	Engineering Records (Reports) in T.R. Evans Research Center Library	03-00-6744 EDR 325 Engineering Design Report Newark Rehabilitation	4A, B, C [p. 11] and 4I, J, P
0029734- 0030028	Engineering Records (Reports) in T.R. Evans Research Center Library	Newark Expansion 2,4-D and 2,4,5-T Acid, App. 03-39-6739 Eng. Design EDR 376	4A, B, C [p. 11] and 4I, J, P
0030029- 0030031	Des Moines Plant Files (Located in Ag Chem Document Storage)	Des Moines - General	4A, B, C [p. 11]

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00030032- 00030047	Des Moines Plant Files (Located in Ag Chem Document Storage)	Auditor's Report	4A, B, C [p. 11]
00030048- 00030105	Des Moines Plant Files (Located in Ag Chem Document Storage)	Dacamine - Up to 1967	4A, B, C [p. 11]
00030106- 00030119	Des Moines Plant Files (Located in Ag Chem Document Storage)	Dacamine - 1967 thru 19__	4A, B, C [p. 11]
00030120- 00030136	Des Moines Plant Files (Located in Ag Chem Document Storage)	Packaging	4A, B, C [p. 11]
00030137- 00030147	Des Moines Plant Files (Located in Ag Chem Document Storage)	Dacamine	4A, B, C [p. 11]
00030148- 00030160	Des Moines Plant Files (Located in Ag Chem Document Storage)	Dacamine Complaints	4A, B, C [p. 11]

DOCUMENT NUMBERS	SOURCE	FOLDER TITLE (OR OTHER FILE DESCRIPTION)	INTERROGATORIES TO WHICH RESPONSIVE
0030161- 0030168	Des Moines Plant Files (Located in Ag Chem Document Storage)	Dacamine Packaging	4A, B, C [p. 11]
0030169- 0030177	Des Moines Plant Files (Located in Ag Chem Document Storage)	Granules - PG/Sy Up to 1967	4A, B, C [p. 11]
0030178- 0030191	Des Moines Plant Files (Located in Ag Chem Document Storage)	Herbicide Formulations	4A, B, C [p. 11]
0030192- 0030315	Des Moines Plant Files (Located in Ag Chem Document Storage)	Inventory/Production	4A, B, C [p. 11]
0030316- 0030324	Des Moines Plant Files (Located in Ag Chem Document Storage)	Organization Chart	2(iii)
0030325- 0030331	Des Moines Plant Files (Located in Ag Chem Document Storage)	Personnel - Up to 1967	2(iii)

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0030332- 0030379	Des Moines Plant Files (Located in Ag Chem Document Storage)	Products	4A, B, C [p. 11]
0030380- 0030424	Des Moines Plant Files (Located in Ag Chem Document Storage)	Product Packaging	4A, B, C [p. 11]
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0030428- 0030429	Des Moines Plant Files (Located in Ag Chem Document Storage)	Raw Materials	4A, B, C [p. 11]
0030430- 0030433	Des Moines Plant Files (Located in Ag Chem Document Storage)	Warehouse - Pending	4A, B, C [p. 11]
0030434- 0030440	Files of General Manager, Ag. Chem. Division	Management Information - Presentation	2B(iii)

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00030441- 00030505	Files of F.R. Kennedy	Products Formulations - Projects	4A, B, C [p. 11]
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00030571- 00030604	Files of Diamond Shamrock Corporate Insurance Department	Workmen's Compensation Chlor-acne -- Newark Plant	4D, G, Q
00030605- 00030609	Files of Diamond Shamrock Corporate Insurance Department	Workmen's Compensation Newark - 1971-72	4D, G, Q
00030610- 00030670	Files of Diamond Shamrock Corporate Insurance Department	Workmen's Compensation Claims Newark Plant - Chlor-acne	3 and 4D, F, G, K, Q, T
00030671- 00030759	Ag Chem Division Document Storage	NACA - Effects of 2,4,5-T on Man and the Environment	3 and 4D, F, K, Q, T
00030760- 00030762	Files of Diamond Shamrock Health and Environmental Affairs Department	2,4,5-T	4D, G, Q

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0030763- 0030778	Files of Diamond Shamrock Health and Environmental Affairs Department	Agent Orange	4A, B, C [p. 11]
0030779- 0030803	Diamond Shamrock Patent Department	Miscellaneous Patent- Related Materials	4A, B, C [p. 11]
0030804	Files of Biosciences Unit, Engineering Department	Loose Document	4I, P
0030805- 0030812	Ag Chem Division Document Storage	Heritage House Label File	4B [p. 11]
0030813- 0030815	Ag Chem Division Document Storage	Heritage House Label File	4B [p. 11]
0030816- 0030826	Files of F.R. Kennedy	Air Pollution	4A, B, C [p. 11]
0030827- 0030829	Files of F.R. Kennedy	Loose - No Folder	4A, B, C [p. 11]

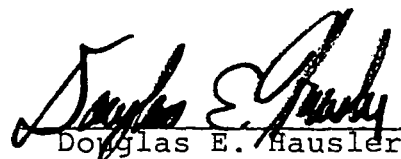
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STATE OF NEW YORK)
 : ss.:
COUNTY OF NEW YORK)

DOUGLAS E. HAUSLER, being duly sworn, deposes and states:

1. I am not a party to this action, am over 18 years of age and reside in Malverne, New York.

2. On April 19, 1983 I served the attached, Diamond Shamrock's Supplemental Index of Documents Responding to Plaintiff's Interrogatories (First Wave), Dated April 19, 1983, on each of the persons named on the annexed service list by depositing true copies thereof, enclosed in postpaid envelopes properly addressed to each of said persons, into an official depository under the exclusive care and custody of the United States Postal Service within the Borough of Manhattan, City, County and State of New York.


Douglas E. Hausler

Sworn to before me this
19th day of April, 1983.


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UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

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IN RE

"AGENT ORANGE"

MDL 381 (All Cases)

PRODUCT LIABILITY LITIGATION

----- X

PLAINTIFFS' ANSWERING BRIEF
ON GOVERNMENTAL KNOWLEDGE

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INTRODUCTION

The defendants have presented their argument in a manner that makes it appear that the plaintiffs have failed to carry their burden of proof in government contractor defense.

This Memorandum furnishes an overview of the separate submissions by the plaintiffs which rebut the Motions for Summary Judgment filed by several of the corporate defendants. Each of those memoranda demonstrates that summary judgment is inappropriate in the context of the hotly contested factual issues in this case. Where there is even the slightest doubt as to whether there is a factual issue to be decided, summary judgment is inappropriate. Dean Construction Co. v. Simonetta Concrete Construction Co., 37 FRD 242 (S.D.N.Y. 1965).

When one considers that this is not the situation, but rather that defendants carry the burden of proof on the motion of summary judgment on the various elements of the government contract defense, the defendants' motions for summary judgment border on the frivolous. Nonetheless, the motions have been made, and the plaintiffs believe that the opportunity for setting the record straight should not be lost.

The defendants have mischaracterized and understated the scope of their own knowledge of the dangers associated with the manufacture and use of Agent Orange. They have similarly sought to create an impression about the scope and depth of government knowledge which is false and misleading. The gulf between the knowledge available to the herbicide manufacturers --the mountain of data, expertise and interpretive capacity which so peculiarly was the province of the chemical industry-- and that available to the government is so great that there is much to be said for the proposition that the court should consider a cross-motion for summary judgment by the Plaintiffs.

We begin by reiterating that the government contract defense requires that defendants establish four elements. See, In Re Agent Orange Product Liability Litigation, 534 F. Supp. 1046, 1055 (E.D.N.Y. 1982):

1. That the defendant supplied the herbicides pursuant to a contract with the government;
2. That the government established the specifications for the herbicides;
3. That the herbicides met the government's specifications in all material respects; and
4. That the government knew as much as or more than the defendant about the hazards to people that accompanies the use of the herbicides.*

Behind the formal requisites of the defense lies a premise which is central to this case and important to the motions under discussion. The words are those of Judge Pratt:

Public policy does require, however that the military's decisions on those vital questions should at least be made on the basis of the readily available information. A supplier should not be insulated from liability for damages that would never have occurred if the military had been apprised of hazards known to the supplier. A supplier, therefore, has a duty to inform the military of known risks attendant to a particular weapon that it supplies, so as to provide the military with at least an opportunity fairly to balance the weapon's risks and benefits.

The plaintiff veterans have contended throughout that Judge Pratt has placed a duty on the supplier to assist in making of the military to whom the material was supplied, as informed and rational a decision-maker as is possible under the circumstances. See, Plaintiffs' Memorandum of Law 8 June 1982. Thus, we are not involved in a game to determine whether a thin slice of information or data which might have touched some aspect of the "Agent Orange" question found its way into the government. The question is, did the government become as informed a decision-maker as they could have been had the chemical company defendants shared their broad base of industrial information.

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The corporate defendants proceed as if the question was whether the deployment of Agent Orange as a chemical defoliant in Viet Nam was a reasonable decision. The thrust of the government contractor immunity defense is that the decision belonged not to the defendants, but to the government. The only question is, did the government have the knowledge, data, and sophistication available to the defendants. We submit that no fair reading of the record will support such a conclusion. Worse yet, the evidence demonstrates mis-statements, half-truths, misrepresentations, falsifications, and an outright conspiracy to deprive the government of the information and to divert them from independently discovering the broad range of risks and methods to avoid them.

In attempting to evaluate the kinds of information which should have been shared with the government or "what kind of information would a rational government decision-maker have wanted to know," it is important that some attention be given to the scope of the defoliation program in Vietnam. This was not a simple weed-killing project. It was the largest defoliation program in the history of man. Huge amounts of defoliant were to be sprayed, heavy concentrations of defoliant were to be used, hundreds of thousands of humans were to come in contact with the defoliant. In this context, if the question is asked how forthcoming about risks, hazards, and risk reduction alternatives should the defendant companies have been or alternatively, how much information would a rational government decision-maker have wanted to have before making the decision to proceed with the defoliation project? The answer is clear. The corporate defendants should have shared all they knew or suspected about the hazards and all they knew about reducing such hazards. The government was entitled to the full dioxin story. Thus, for every government witness that the defendant war contractors would claim had "knowledge," the triable issues are knowledge of what?

1. Did the government witness know of the existence of "Agent Orange?" 9930
2. If the government witness knew of the existence of "Agent Orange," did the witness know that 2,4,5-T was part of "Agent

Orange?"

3. Did the government witness know the results of animal tests establishing the dramatic toxicity of dioxin?

4. Did the government witness know anything about the industrial accidents and/or process problems and/or injuries?

*

5. Did the government witness know the extent of the cleanup problems associated with each such accident or "problem"?

6. Did the government witness know about the precautions workers were required to take in the clean up process such as the need to wear protective gloves, suits, masks, etc.?

7. Did the government witness know of any of the human health hazards associated with exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD or "Dioxin") contaminated products such as 2,4,5-trichloro phenoxyacetic

*In particular was the witness aware of the following facts: (a) In 1937, approximately 400 lumber workers using Dowicide H, a chlorinated phenol, developed, among other illnesses, comedones, cysts and pustules (chloracne), urinary disturbances, skin lesions lasting seven years and marked hyperkeratosis (corneal overgrowth); (b) In 1937, approximately 21 workers at a Dow plant which manufactured chlorinated phenols, developed the same symptoms as the 400 lumber workers; (c) In 1949, approximately 10 workers were exposed to dioxin in the manufacture of 2,4,5-TCP at Nordheim, W. Fahlen and some developed neuralgic pains, heart disorders and chloracne; (d) In 1949, approximately 117 workers were exposed to dioxin in the manufacture of 2,4,5-T, at a Monsanto plant in Nitro, West Virginia and approximately 228 members of their family, as well as medical personnel dealing with the exposed workers, and some of them developed chloracne, and showed evidence of liver damage; (e) In 1954, approximately 31 workers at a C. H. Boehringer Sohn plant were exposed to dioxin in the manufacture of 2,4,5-TCP and 2,4,5-T. Some of them developed liver damage and chloracne; (f) In 1956, approximately 29 workers in a Diamond Alkali (now Diamond Shamrock) plant were exposed to dioxin during the manufacture of 2,4,5-T and some of those exposed developed porphyria cutanea tarda, hyperpigmentation, and hirsutism; (g) In 1964, over 40 workers in a Dow plant in Midland, Michigan were exposed to dioxin in the manufacture of 2,4,5-T, and some of them developed chloracne and complaints of tiredness, weakness, and depression with some reduction in hemoglobin and red cell counts. Some workers with metaplastic changes were examined.

acid (2,4,5-T) and its esters? In particular was the witness aware of systemic physiological effects such as

- (a) chloracne?
- (b) liver damage?
- (c) cancer?
- (d) teratogenicity?

8. Did the government witness know that Agent Orange was contaminated with dioxin and was the witness aware of the extent of such contamination?

9. Did the government witness know anything about 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD or "Dioxin")?

10. Did the government witness know anything about the analytical methods for detecting dioxin contamination in commercial products such as 2,4,5-trichlorophenoxyacetic acid (2,4,5-T) and its esters?

11. Was the government witness aware of the scope, nature, and reliability of defendants' analytical procedures and quality control practices?

12. Did the government witness know anything about other processes available to reduce or avoid the hazards--risk reduction techniques?

One must also determine just how remote was the government witness from the military or the central decision-making process.

In order to complete our inquiry into the balance of knowledge and to establish the truly awesome disparity of knowledge between the corporate defendant war contractors on the one side and the United States military, we must address these self-same questions to the corporate defendant chemical companies. It should come as no surprise that what we have discovered is that the corporate defendants had substantial knowledge of all of the above questions.

The corporate defendant war contractors were masters of the chemical manufacturing arts. They were the primary source of all the information about their phenoxy herbicides, in particular, 2,4,5-trichlorophenoxyacetic acid (2,4,5-T) and its contaminant the deadly dioxin, 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). Instead of turning that information over to responsible and authoritative 9932

government decision-makers in a focused and coherent fashion, they obfuscated, misled, misrepresented, and conspired to hide the full extent of the danger from the government. They seek now to hide behind the tattered bits and pieces of data scattered throughout government bureaucracy and the hints of concern in a few obscure publications of extremely limited circulation to establish their defense. Their effort is disingenuous and their dissembling outrageous given the state of the record.

A. CHEMICAL COMPANY KNOWLEDGE WAS PERVASIVE WITH REGARD TO THE MANUFACTURING PROCESS DIOXIN CONTAMINATION DIOXIN DETECTION METHODS, RISK-REDUCTION TECHNIQUES, AND POTENTIAL HEALTH HAZARDS ASSOCIATED WITH EXPOSURE TO DIOXIN.

The individual briefs set forth in great detail the scope of the knowledge of the defendant Chemical Companies with regard to the knowledge of dioxin contamination of 2,4,5-T, the analytical methods of detecting contamination, the risk-reduction method which could have been utilized and the potential health hazards associated with exposure to dioxin. Although, the knowledge varied somewhat from defendant to defendant, the body of knowledge available in the chemical industry was substantial. Much of it can be characterized as frightening.

It is important, however, to note that the government contract defense does not provide a license for willful ignorance of the state of the art or the state of industry knowledge. What Judge Pratt said with regard to the duty to inform is not inconsistent with this proposition. Thus, Judge Pratt notes that:

"Public policy does require...that the military's decisions on those vital questions should at least be made on the basis of the readily available information..... (emphasis added)

He notes that:

[T]his principle would not impose upon a supplier any duty of testing that was included in the specifications.

The thrust of Judge Pratt's remarks is clear given the context of his opinion. Rightfully concerned that military suppliers have no independent duty to "advance the state of the art," he specifically frees them from an independent duty to tests not included in the specification. But, chemical companies that manufacture compounds with toxic qualities cannot be given blanket license to be ignorant of "readily available" knowledge. Cases are legion that hold experts to the state of the art in the field in which they are expert and rightfully have imputed to them the technology, knowledge, and

literature available of the art in the filed. See eg.

Wright v. Carter Products, Inc., 244 F.2d 53, 57 (1957);
Braun v. Roux Distributing Co., 312 S.W. 2d 758, 763 (MO
1958); 2 Harper & James, Torts Section 28.4, p. 1541; 2
Wigmore, Evidence Section 665(b) p. 784.

To conclude otherwise would lead to the result that chemical companies that were either ignorant or indolent are to be singled out for special reward. "See no evil - hear no evil" is hardly a posture to be encouraged by this Court. Defendant manufacturers were not producing sugar-coated lollipops. They may be charged with the knowledge of the industry literature if they were to engage in the manufacture of dangerous chemical compounds. Since, as we demonstrate government as a non-expert purchaser did not have that knowledge, the imbalance of knowledge remains significant.

Whatever, the final resolution of this question, the presence of significant industry knowledge makes it wholly inappropriate for a claim of ignorance to support a motion for summary judgment.(1) The difference between "known" and "should have known" is a very slender thread. Certainly defendants who bear the burden of proof cannot, in the face of substantial industry knowledge(2), argue that as a matter of established fact they did not know. A jury should be free to conclude that they did, in fact, know what was available through the industry.

(1) See briefs of defendants Thompson-Hayward and Thompson Chemical Co.

(2) See plaintiffs briefs describing knowledge of Dow Chemical Company, Hercules Corporation, and Uniroyal, Incorporated.

B. THE KNOWLEDGE OF GOVERNMENT OFFICIALS WAS INFERIOR TO THAT OF THE DEFENDANT CHEMICAL COMPANIES

Having demonstrated in the individual briefs, the pervasiveness of the knowledge of the Chemical Companies with regard to all aspects of the Agent Orange problem, and the literal stranglehold that the companies had over the informational network, it is hardly worth taking the Court's time with substantial rebuttal of the defense that the military decision-makers had parity of knowledge with the chemical companies.

Nonetheless, it is worthwhile to sample from the rather elaborately set table which the defendants have spread before this court. Again the results are hardly surprising. The defendants have picked and gleaned to create a mirage. It should be given short shrift by this court.

Dr. Charles E. Minarek.

The defendants, for example, spend considerable time on the testimony of Dr. Charles E. Minarek. One is struck by the vagueness of any knowledge that he did have and the many areas in which he had no knowledge whatsoever.

Several examples will demonstrate the point. Dr. Minarek had heard about teratogenicity problems associated with 2,4,5-T and he called Keith Barrons at Dow Chemical Co. to ask whether they had any knowledge of the problem. Dr. Minarek testified:

With regard to risk-reduction techniques, Minarek testified that he had no knowledge that manufacturing procedures could lower the dioxin content of the final product until the Dow meeting with the Department of Defense in 1970. He similarly was unaware that there

were varying levels of dioxin contaminations among the manufacturers.

All chemical companies represented at the 1965 Midland Dow meetings were aware of these facts.

Not only was Dr. Minarek unaware of risk reduction techniques, but he was unaware of the dioxin contamination of Agent Orange.

In fact, he had not heard of dioxin until 1970.

Dr. Minarek was aware of one of the incidents of chloracne at a Dow plant in 1964, but was unaware that both Monsanto and Diamond Alkalai had similar incidents. Even the testimony as to Dr. Minarek's supposed belief in the safety of 2,4,5-T at 1 ppm in 1970 is vague at very best.

When one considers that Dr. Minarek was most probably not privy to Dow's own concern that repeated exposure at one part per million may be dangerous, thus it becomes clear that little is left from the Minarek testimony. He is a vague, uncertain witness, at best ignorant of substantial areas of hazard and risk. Yet, the defendants target him as crucial to the decision-making process. If he was at the vortex of decision making (a proposition plaintiffs severely question) he hardly had the knowledge which can place him in equipoise with the chemical company defendants.

When one turns to other government witnesses the pattern repeats itself, many witnesses knew nothing about or had no interest or concern with dioxin or its harmful effects (See, Bushey, Metcalf, Buckley, Higgenbotham, and Sim). Others did not know that 2,4,5-T was contaminated with dioxin or was hazardous (See, Cox, Higgenbotham, Horton, Summers, Stone, Irish, Melvin, and Housewright). Still others did not know that 2,4,5-T was being used in Viet Nam or did not hear of it until long after defendants supplied their herbicide to the military (See, Buckley, Higgenbotham, Simmons, Courtney, and Housewright). Some government witnesses did not know of any causal link between 2,4,5-T and chloracne or any other injury (See,

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Birmingham, Stokinger, and Higgenbotham).

A large number of witnesses found out about 2,4,5-T or dioxin long after the defendants supplied the contaminated herbicide to the military (See, Minarek, Firestone, Anderson, DuBridge, Bradley, Eckhaus, Falkener, Shead, Shaw, Callahan, Courtney, Irish, Housewright, and Delmore). Several witnesses who had some research effort with regard to 2,4,5-T or dioxin never completed their work nor had their findings verified (See, Bates, Lawton, Groth). Finally and most important, none of the government witnesses had any knowledge with regard to risk-reduction techniques that could reduce dioxin content.

High Level Government Witnesses Uniformly Were
Unaware of the Toxicity of Agent Orange

High level government witnesses were uniformly unaware of the toxicity of Agent Orange.

1. Paul C. Warnke became Assistant Secretary of Defense for Internal Security Affairs under President Lyndon B. Johnson. He reported only to Secretary of Defense McNamara and, in his opinion, the decision to deploy herbicides in Southeast Asia was made by President John F. Kennedy. In his discussions with Secretary McNamara he never heard any conversation about the defoliation program presenting a hazard to human beings, and was never advised of any meeting held by the Dow Chemical Company in Midland, Michigan in 1965.

Mr. Warnke never received any notice from any agency or subdivision thereof during his tenure in office that a possible health hazard could accompany the use of Agent Orange. Mr. Warnke had no recollection of the issue of alleged toxicity of herbicide orange ever being raised at the Cabinet level.

2. Harold Brown was appointed by President John F. Kennedy to be Director of Defense, Research and Engineering and commenced his duties in May of 1961. He held this position until the end of

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September, 1965, at which time he became Secretary of the Air Force until the middle of February, 1969. He was then appointed Secretary of Defense by Jimmy Carter in 1977 until January of 1981.

from the beginning of the defoliation program, the material sprayed was considered to be ordinary weed killer much used in the United States and elsewhere, and the only question of toxicity was the concern that the Viet Cong and the Soviets were alleging that the United States was utilizing chemical warfare.

Mr. Brown belief during his tenure of office was that the spray was not harmful to the livestock or to humans, and it was his personal belief in 1961 that the material being deployed was harmless as far as human beings were concerned. Mr. Brown was of the opinion that President John F. Kennedy personally made the decision to deploy herbicides in Southeast Asia, and he personally further believed that Defense Secretary McNamara shared his understanding that the herbicides sprayed were harmless.

that even after he heard reports from the Viet Cong that the spray was toxic it did not change his opinion that the material was not toxic.

Former Defense Secretary Brown based on his conversations with former Defense Secretary McNamara, it was consistent to assume that the late President Kennedy also believed the materials deployed in Southeast Asia were non-toxic.

Mr. Brown first heard the term "dioxin" after he left the government in 1969.

3. Robert F. McNamara was Secretary of Defense under President Kennedy from January of 1961 to March 1, 1968.

at the time the defoliation program was requested by President Diem of Viet Nam he believed the agents to be deployed were non-toxic. Further, both Secretary of State Rusk and President Kennedy, as well

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as himself, were quite sensitive to the impact of the military operations on the lives of both American troops and the enemy. Secretary McNamara buttressed the fact that President Kennedy made the decision to utilize the defoliation program in Southeast Asia.

Secretary McNamara first heard of the alleged toxicity of the defoliant used in Viet Nam after he left the government in March of 1968. He never heard the term "dioxin" or "chloracne" during his entire period of service as Secretary of Defense.

Secretary McNamara if he had received such information while he was Secretary of Defense, he would have pursued the extent of such potential adverse effects on human beings, but no such knowledge ever came to his attention.

4. Dr. Henry A. Kissinger was Assistant to the President for National Security Affairs under President Nixon in 1969. In 1973 he became Secretary of State of the United States.

Dr. Kissinger's was that the Executive's concern was that nothing was happening in Viet Nam that we would not do in the United States. It was further his belief that the material being deployed was non-toxic and that President Nixon would have had no independent information that he did not see in his office. Dr. Kissinger the decision to terminate the defoliation program was made directly by President Nixon.

The Public Health Service Did Not Discover the Toxicity of 2,4,5-T in the End Product

The Defendants argue that the government acquired virtually conclusive knowledge of the dangers of 2,4,5-T through the investigations of the Division of Occupational Health and Safety, and particularly the Cincinnati office. The refutation of that argument

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requires an analysis too detailed for inclusion in the body of this brief, and it is annexed to Appendix II hereto.

Ultimately, what defendants are contending is that all pieces of disparate information from various parts of government each knowing a little magically come together. This is arrant nonsense. However, even if it had it would not have approached the massive amount of information and expertise in control of the chemical companies, the record supports the conclusion that the government, let alone individual decisionmakers, did not generally or jointly approach the total of the knowledge of the defendants.

C. IF THE IMBALANCE OF KNOWLEDGE EXISTS THEN THE DEFENDANTS ARE BARRED FROM SUMMARY JUDGMENT WITH REGARD TO SPECIFICATIONS AND MATERIAL COMPLIANCE

The development of the facts in this case demonstrate that imbalance of knowledge was extremely serious. The several briefs dealing with the conduct of the chemical defendants also demonstrate that they engaged in falsifications, half-truths, and outright conspiracy to deny the government vital information concerning Agent Orange. We now contend that in this context it would be unfair to allow the defendants the right to tell a jury that the specifications were those promulgated by the government and that they complied with those specifications in all material respects.

Can one fairly say that the specifications were those created by the government when the government was kept in the dark about significant aspects of the manufacturing process? Are specification words jotted down on paper or are they descriptions of a product? Should defendants be permitted in the context of such abysmal government ignorance of the manufacturing process be allowed to tell the jury that the "specification" were those of government.

When one understands what the nature of the government specifications were and how they were formulated the argument that defendants failed to comply becomes even more convincing.

For the military, as well as other bulk purchasers, specifications assure that certain products will be uniform. "Agent Orange" was a mixture of common products which were available to the general public in the same form as provided to the military. Even the lowly ketchup and mustard dispenser commonly used to decorate our hot dogs at a ball game come under an eight page military specification.

The mere fact that such common items come under a military specification makes them no more designed by the government or specially produced by the manufacturer for the government than are the herbicides which are the subject matter of this litigation. The mere existence of military

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specifications is no defense to the claims of the plaintiff veterans that the 2,4,5-T acetic acid and its esters sold to the Department of Defense by the corporate defendants was defective because it was contaminated with 2,3,7,8-tetrachlorodibenzo p-dioxin (TCDD or "dioxin").

In reality, government and military specifications were dictated by what products the corporate defendants as manufacturers of commercial herbicides could make available for use in Southeast Asia during the war in Viet Nam. In determining what materials were to be used, representatives of the Department of Defense routinely contacted the manufacturers in order to determine what herbicides were commercially available. Defense Department knowledge was limited to what could be obtained from the manufacturers.

The 2,4,5-trichlorophenoxy acetic acid and its esters described in the government and military specifications were marketed commercially by the corporate defendants long before the development of any such specifications. Moreover, the manufacturers of herbicides not only controlled what products were to be made available to the military for deployment in Vietnam, they in fact assisted in the writing of those specifications.

Large purchasers of commercial products such as the Department of Defense routinely develop specifications to assure uniform quality and composition of materials. In no way do such purchase specifications constitute a directive to the manufacturer to produce the product in a particular manner, much less include a hazardous level of a substance so toxic as to require extraordinary handling precautions even among sophisticated analytical chemists employed by the corporate defendants in some of the best equipped state of the art laboratories.

Finally, the compliance aspect appears to be a cruel joke. The chemical companies were aware that government had no method for testing for dioxin contamination. The 1965 Midland Meeting insured

that the government would continue in its ignorance. Only the chemical companies were told for private consumption that testing techniques were available that could determine dioxin contamination. Are the defendants who were aware of their individual and industry-wide contamination problem now to be allowed to inform a jury that they "complied" with fraudulently induced government specification?

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D. THE ACTIVE CONSPIRATORIAL CONDUCT OF THE DEFENDANT CHEMICAL COMPANIES GIVES EACH THE GUILTY KNOWLEDGE OF THEIR CO-CONSPIRATORS

What plaintiffs dimly suspected at the outset of this litigation has now been proven beyond question. The defendant chemical companies acted in their self-interest to prevent the military from learning about many of the hazards involved with the production and use of Agent Orange. Among the most serious of these are contained in the exchange of documents between Dow and Hercules concerning the 1965 Midland Meetings in which there is discussion of withholding information from government as to the alarming amount of acnegen [dioxin] and their desire to clean up the industry before the government stepped in to regulate. The full discussion of these memoranda is set forth in the plaintiffs separate briefs dealing with Dow Chemical Company and Hercules, Inc. To these must now be added the document from Hercules, Inc. of September 5, 1967 in which there is clear recognition that government testing capabilities for dioxin was woefully inadequate and inaccurate.

The spectre of a meeting in 1965, several years into the defoliation program in which Dow Chemical Company, Hooker Chemical Corp., Diamond Alkalai Co., Hercules Powder Co., met to discuss the dioxin problem and did not invite the government to participate needs no comment. When one adds to this the follow-up memoranda describing willful concealment there is little question that conspiracy is established.

The last instance of "cover up" was in the withholding from the government of the technology necessary to analyze the products and to detect its deadly impurities. The Air Force was working on a method of analysis, gas chromatography which it hoped would prove more effective than the army's infrared spectrography, analysis and preliminary tests looked promising. The government was well behind the defendants in developing this technology, however.

In a memorandum marked "confidential" and dated September 5, 1967, from M.A. Taves, Synthetic Research Division, to Mr. J.M. Eagan,

Synthetic Department, the government procedure (infrared) was described as

There should be no question that plaintiffs assert that all the participants at that meeting bear conspiratorial responsibility for the dioxin contamination of the others. Dow and Hercules were well aware that Diamond Shamrock and Monsanto had contamination ranging from 10-50 ppm and decided not to reveal this to government. They bear the responsibility of co-conspirators (See, E.G. Bierczynski v. Rogers, 239 A.2d. 218 (Del 1968); Lemons v. Kelly, 239 Ore. 354 397 P.2d. 784 (1964))--and--each day brings to the fore new documents and the list of co-conspirators may yet grow to include other of the named defendants with guilty knowledge of the cover-up.

E. WOULD FULL MILITARY KNOWLEDGE OF THE PRESENCE OF DIOXIN IN DEFENDANTS' HERBICIDE, TOGETHER WITH FULL KNOWLEDGE OF ATTENDANT RISKS, HAVE AFFECTED RATIONAL GOVERNMENT DECISION MAKING.

1. A Preliminary Overview

Dow argued that the government knew as much about dioxin and its implications as Dow knew during the entire period of herbicide deployment in Vietnam. Dow further argues that even if it knew more than the government, the government contract defense is available to it because the government's lack of knowledge did not contribute to its decision to continue to use Agent Orange -- that even if the government had been fully informed from the outset, it would have reached exactly the same decisions regarding deployment of the herbicide.

It bears repeating that the defendant's burden in connection with their motion for summary judgment is not merely to persuade the court that their characterization of the evidence in the case is accurate, but rather to demonstrate that there are no relevant issues of fact for the jury to decide and that the defendant is entitled to judgment as a matter of law. This basic point is reemphasized for two reasons: first, because the defendant's memorandum on this aspect of their argument reads very much like an argument on the facts to the jury; and second, because on its face their argument regarding "what the government would have done if..." is uniquely appropriate for determination by the jury on all of the facts developed at trial.

2. The issue of how a fully informed government would have acted is not relevant to Phase I but is a proximate cause question.

Dow's Reliance in this Phase I on the likely reactions of actual government decision-makers is misplaced; what actual decision-makers would have done, if fully informed, relates to the issue of proximate causation rather than the government contract defense.

Purporting to take direction from this Court's order dated February 24, 1982, in which the court holds that the government contract defense will fail only "if the defendant was aware of hazards that might reasonably have affected the government's decision," (534 F. Supp. at 1057) (emphasis added), defendant Dow weaves into its argument references to the likely decisions of actual decision-makers, elements that should not be considered in this phase of the lawsuit. We submit that the portion of the quotation emphasized above is necessary and sensible to part of the government contract defense in as much as it requires that, to render unavailable the contract defense, the facts known by defendant Dow but not known by the government must be relevant to the government's task of engaging in rational decision-making. Thus, plaintiffs would concede that if Dow happened to know that its herbicide turned yellow in color when mixed with milk -- a feature that we shall assume could in no way affect the welfare of human beings -- Dow's failure to tell the government of this fact would not defeat the government contract defense.

It follows that in sorting out the relevant from the irrelevant differentials in knowledge between Dow and the government, this Court was correct in relying on the basic theme underlying its entire February 24, 1982 order: differentials in knowledge are relevant to the extent they "might reasonably have affected" rational decisions regarding deployment of the herbicide. Stated somewhat differently, Dow would have breached its duty to disclose, and hence would not be entitled to the contract defense it seeks, if it failed to inform the government of facts that "might reasonably have affected" rational governmental decision making.

Beyond the issue of whether Dow breached its duty to disclose, there remains the issue of whether Dow's breach proximately caused the plaintiff's injuries. Plaintiffs submit that further issue might well involve the question of whether Dow's failure to disclose in fact contributed to the government's decision regarding whether and how to continue to deploy the herbicides. In effect, having been shown to have failed to supply the government with adequate knowledge

to support rational decision-making, and thus, having lost the government contractor defense phase of this lawsuit, Dow may wish to argue at some future time that its breach of duty to disclose did not proximately cause the plaintiff's injuries because, impliedly, the actual government with which Dow dealt would have gone ahead and applied the herbicide with full knowledge of the severe risks to personnel, but such an argument would be appropriately raised only at a later phase of this lawsuit, in the context of the subsequent issue of proximate causation. It follows that by questioning "what this decision maker actually would have done" at this phase of the trial, Dow oversteps the bounds of the issue presently before this Court.

Summarizing, Plaintiffs would not deny Dow the opportunity to argue at some later phase of this litigation that even if Dow did breach its duty to supply information that might have affected a rational decision-maker, Dow should not be liable because the actual decision makers with whom it dealt were (impliedly) irrational, and thus would not have been affected by full disclosure of the severe risks to military personnel from using the herbicide. Plaintiffs simply ask that they wait to make that argument until the issue of proximate causation is properly before the Court at a later phase of the lawsuit.

Plaintiffs concede that an underlying premise of this Court's development of the government contractor defense has been that a fully informed government has the right, vis-a-vis affected third persons, to act in any way it chooses without incurring, or its supply contractors incurring, liability. But once a differential in knowledge is shown to have existed between contractor and government -- once the government is shown to have been ignorant rather than informed regarding relevant risks -- we submit that the Court must indulge in a presumption of rationale, rather than irrational, decision making on the part of the government. Once Dow is shown to have breached its duty to disclose, the question in this phase of the trial is whether that breach would have affected rational decision-making. This is a mixed question of fact and law calling for

what is, in essence, a value judgment for the jury. If Dow wants to argue "even if our failure to disclose would have affected rational decision making, it would not have affected this government's decision making," let them do so at a later phase of the lawsuit, when the Court properly addresses the issue of proximate causation.

Plaintiffs position in this regard is supported by traditional rules of law governing, for example, a physicians's duty to disclose to his patient risks attending treatment -- the so-called "informed consent" doctrine. Whether the physician breached his duty of disclosure is determined by reference to what information a reasonable person in the patient's position would require in order to make a rational decision regarding whether to consent to undergoing treatment. If the physician fails to disclose relevant risks, he breaches his duty. The further question of whether this particular plaintiff would have gone ahead and submitted to treatment even if fully informed is a question relating to the issue of proximate cause. See, e.g., Canterbury v. Spence, 150 U.S. App. D.C. 263, 464 F.2d 772 (1972), Scott v. Bradford, 606 p.2d 554, (Ok1. 1979).

These cases clearly support our analysis of the instant case. In this first phase, focusing on an issue relating to defendant's breach of its duty to disclose, the relevant "what if?" question is whether defendant's failure to share information would have affected a rational decision maker. If defendant Dow wants to try to show that the particular decision makers with whom Dow dealt (and whom Dow kept in ignorance) would have gone ahead even if fully informed, let Dow raise that later in connection with the issue of proximate causation.

3. Proximate Causation Questions Are For The Jury.

The issue of whether defendant Dow's failure to disclose would have affected a rational decision-maker is uniquely one for the jury.

By their nature, issues couched in hypothetical, "what would

have happend if?" terms may almost never be resolved ahead of trial, as a matter of law. Because they involve speculation regarding a set of circumstances that never actually occurred, "what if?" questions of this sort are almost always reserved for resolution on all the factual circumstances by the triers of fact. Bearing in mind that to reach this question it must be assumed that the defendant Dow breached its duty to disclose relevant information to the government, Dow's insistence that the inherently speculative question of "what if?" be resolved in its favor as a matter of law is patently groundless. Plaintiffs have not asked for summary judgment. But if this particular issue were to be resolved one way or another by the Court as a matter of law, it should be resolved against, rather than in favor of, the breaching defendant Dow.

F. A HOST OF SERIOUSLY CONTESTED FACTUAL ISSUES ATTEND THE QUESTION AS TO WHETHER THE MILITARY WOULD HAVE ACTED DIFFERENTLY HAD IT BEEN TOLD THE TRUTH ABOUT AGENT ORANGE.

Even if the issue whether the actual decision makers would have acted differently, properly before the Court, as Dow argues, that issue presents myriad questions of fact for the jury.

Dow argues that at some point during the war effort, decision-makers became aware of the adverse effects of Agent Orange. Dow insists that these decision-makers, finally cognizant of the consequences of their acts, continued to use or to advocate the use of the herbicide. For Dow, decisions to use Agent Orange made under these conditions of knowledge demonstrate that the earlier ignorance by the government was irrelevant to any determination concerning the herbicide. This focus on actual decision-makers is misplaced for reasons already noted. Accepting arguendo Dow's framing of the issue, Plaintiffs response is two-fold. First, the extent of the government's knowledge covering hazards even during the later period of time that Dow seeks to use as a benchmark of "informed" governmental conduct is inadequate. Dow's conception of full knowledge does not reflect knowledge of all relevant information. Second, the issue of what the government would have done with all

relevant knowledge is an intricate and difficult one that depends on various facts that are hotly disputed in this litigation. Thus, that issue must be given to the jury and is inappropriate for decision by summary judgment.

Dow contends that the government employed Agent Orange as a matter of military necessity, that it was an effective battlefield, weapon, the potency of which outweighed any cost associated with its use. As evidence of this conscious weighing of risks and benefits, Dow points to the government's continued use of the herbicide even after it was -- in Dow's view -- clear to the government that some toxic effects might accrue. Dow sees support that this was the response of rational decision-making in the statement of Dr. Minarik that he thought dioxin levels of less than 1 ppm were safe and a statement by the Chairman of the Joint Chiefs of Staff that restrictions on dioxin contamination in herbicides were unwarranted. For Dow, the cessation of herbicide use after the government became knowledgeable of associated hazards resulted from "political" concerns irrelevant to the issue of toxicity, e.g. ecological consequences. In effect, Dow argues that an "informed" government, cognizant of all risks, feared adverse public reaction to the destruction of crops but was unmoved by the possibility that the same product could maim its troops.

The obvious problem with these evidentiary assertions in the context of motion for summary judgment is that none of them is undisputed. There exists plentiful evidence that throughout the entire war effort, information concerning dioxin and its consequences did not come to the attention of policy-making officials who decided whether to deploy Agent Orange. Dow's view of the evidence concerning government's knowledge is, at best, out of context and, at worst, simply wrong. In either event, the task of sorting out the conflicting assertions is for the jury and is inappropriate for summary judgment.

Even if one looks solely at the evidence that Dow marshalls

for its position, it is clear that the picture of the government that emerges is by no means one of a fully informed decision-maker, and thus, its conduct with the information it actually possessed does not constitute a model of fully informed decision-making. Dow suggests, for instance, that the government at some late date was aware that Agent Orange probably contained 1 ppm of dioxin, but decided to use the herbicide anyway. Assuming for the moment the veracity of Dow's assertion, this statement, standing alone, has virtually no probative value for the issue of what an informed government would have done. Unless the government was fully informed with respect to the implications of exposure to dioxin, its conduct predicated on a conception, or misconception, of contamination of Agent Orange is not the conduct of an adequately informed decision-maker. If, as Dow contends, the government "knew" of occupational health hazards "such as chloracne" (Dow Brief at 76), but did not know of other serious consequences of the herbicide's use, it is the height of sophistry to take from the jury the issue of what the government would have done on the theory that its conduct reveals the proper answer to that question. If the government "knew" that toxic impurities could accompany the production of Agent Orange, but did not know that the herbicide that it was being supplied contained contaminant levels far in excess of anything remotely approaching levels believed to be "safe," then continued use by the government of that product is not evidence of its knowing approval of the product.

Dow's other evidence demonstrates that the level of governmental knowledge with respect to the full implications of dioxin contamination was meager at best. Dow, for instance, begins its argument with the assertion that "by the mid-1960's" government had the requisite awareness of dioxin contamination and its effects (Dow Brief of 76). Certainly Dow at the time did not believe that the government had sufficient knowledge to make a reasonable decision. Dow's conduct in organizing and abetting a conspiracy of silence among the manufacturers graphically demonstrates its concern in 1965 that relevant information had not reached, and should not subsequently reach, government hands.

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Nor does subsequent government conduct suggest appreciation of the dangers that Dow sought to hide. Dow cites as evidence of government knowledge a warning recommended by the Army Surgeon General's Office in 1968 for insertion in the herbicide specification. That warning stated:

CAUTION! MAY CAUSE SKIN IRRITATION

Avoid Contact With Eyes, Skin and Clothing

(Dow Brief at 70). Given the full implications of Agent Orange use, this warning was the work of fools or knaves. Unless one posits that the Army Surgeon General's Office wanted to mislead the troops, the jury could certainly infer that this warning of "skin irritation" was promulgated by a group that did not comprehend the toxic nature of the substance with which they were concerned. Indeed, the very fact that the Army recommended a precautionary warning for minor adverse effects such as "skin irritation" may well permit the jury to infer sufficient solicitude for the troops that the government would have taken far more drastic steps, including halting use altogether, if it had full knowledge of the herbicide's consequences.

Dow next argues that a Rand Corporation study that dealt with toxicity was referred by Secretary McNamara to the Joint Chiefs of Staff for review. Dow notes that the "Joint Chiefs recommended that the crop destruction program continue without mentioning the toxicity issue." Dow Brief at 80. For Dow, this fact is concrete evidence that a fully informed government did not care about toxicity. But a jury could certainly reject this callous view and conclude instead that the failure to mention toxicity at all emanated from the failure to comprehend the seriousness of the problem, i.e., that the Joint Chiefs, and the government at large, were inadequately informed about the consequences of their actions.

Dow also relies on a memorandum from the Chairman of the

Joint Chiefs of Staff that

(Dow Brief at

In the face of Dow's assertion that it was producing Agent Orange that met this specification, it is clear that those deciding the future of Agent Orange use were uninformed about risk-reducing techniques as well as about the risks themselves. Their conduct, therefore, even at a late date, cannot be looked to as evidence of what government with full information would have done.

Was this information that appears to have been lacking among government officials relevant to an informed decision? The possibility that a jury could find that it was relevant is evidenced by the behavior of those parties who did possess the information. Since the mid-1960's, Dow had information that Agent Orange supplied to the government contained large levels of dioxin, far in excess of anything Dow considered safe or necessary. Dow also knew that its own product would be mixed with that of others into a fungible mass and used in this manner on the battlefield. Dow also possessed information concerning reduction of the contaminant level. What did Dow do with this information? It concealed it from the government and urged others -- its co-defendants -- to do the same. It failed to share with others the information concerning risk reduction. Dow effectively confirmed the sale of contaminated herbicide to the government and, through conspiring to conceal information of the conduct of its co-defendants from the government, adopted that conduct as its own. Why would Dow and its co-defendants have adopted such a course of action? They were clearly aware of what the government would have done had it been fully cognizant of the risks and risk reduction methods known to Dow. An informed government would either have terminated its use of the herbicide or would have imposed restriction on its sale for both governmental and domestic use that would have adversely affected the financial interests of the chemical companies.

Certainly, there did come a time when the government was

sufficiently aware of the hazards of Agent Orange that it ceased using the herbicide. If Dow is correct that subsequent conduct is evidence of what post-behavior would have been, one would think that this fact demonstrates what the government would have done if it had had access to information concerning hazards at an earlier stage. Dow, however, attempts to twist the implications of the government's action by attributing it to "political" as opposed to health-related concerns. It is not germane here to prove precisely what motivated the government to terminate the herbicide program. Plaintiff would only point out that even on this issue there exists a myriad of unresolved fact issues. It would be a rather perverse government that knew as much about Agent Orange as Dow asserts our government did in 1970 but did not consider health hazards to its troops in reaching a decision about the utility of herbicide use. As with all decisions made by government, the decision to terminate use of Agent Orange was surely "political" in the sense that it took into account factors of concern to various constituencies. One would not downplay the ecological and international concerns expressed at that time or the government's reaction to it. A jury, however, could certainly find that these factors alone did not motivate the government. Rather, the cumulative weight of the adverse effects, whether described as "political" or otherwise, precipitated the termination order. Hence, the fact that the government ceased using the herbicide after obtaining additional knowledge of potential health hazards is far more probative of what a fully informed government would have done than Dow concedes.

A final point is in order. Dow's argument on the causation issue has been to create a dichotomy of government's potential reaction to information concerning health hazards of Agent Orange. Dow contends that the issue is simply whether the government would have used the herbicide or not. From this dichotomy, Dow formulates the response that the government would have used the chemical notwithstanding full knowledge of its implications because it was a useful weapon, a military necessity that saved the lives of troops threatened by ambush. As has already been said, even if this dichotomy were valid, it presents many issues of fact for the jury:

THE COURT SHOULD USE THIS OCCASION
TO SIMPLIFY THE ISSUES

If there is any virtue to the present motions, it is that these motions for summary judgment give the Court an opportunity to simplify and focus the issues at trial.

A motion for summary judgment "searches the record." It is well used in large cases to educate the Court concerning the legal and factual issues of the case but it can, of course, be used to grant either full or partial judgment against the moving party.

On the present motion, the defendants' own papers show that there was no web of information of the kind they hoped to uncover when discovery began. At no time did knowledge of what dioxin was in the end product and how it could affect human health filter its way to any responsible military officer in a position to judge whether continued spraying of Agent Orange was in the best interests of the United States and to halt it if it was not.

former Defense Secretary McNamara made it abundantly clear that he would have pursued the matter vigorously if he had known of potential adverse effects on humans of herbicide spraying

Not only he, but Secretary Rusk, President Kennedy and later President Johnson were sensitive to the effect on human life of military operations (McNamara Tr. 13).

By way of contrast, the defendants appear to have enjoyed a very clear, very focused idea of the dangers in the product they were selling.

Under such circumstances, it would seem appropriate at this point in the case to make some preliminary rulings concerning the scope of the evidence and the scope of the arguments that may be made at trial. The peripheral lines of possible information so thoroughly explored in discovery and found fruitless should be ruled out of the case and deleted as part of the burden of trial. If the inquiries of the Office of Occupational Safety led to no new breakthroughs and led

On further reflection, however, it is clear that no such dichotomy constrains the jury. Rather, the jury could find as a fact that the government, possessing all relevant information, could have decided to continue use of Agent Orange, but to modify the manner of use. A jury might find, for example, that the government could have trained troops concerning safer handling of the herbicide and could have placed more precise warnings on cannisters containing the herbicide. Had Dow shared with the government the knowledge that other chemical companies were delivering Agent Orange with highly toxic levels of dioxin, the government could have, at an earlier date, promulgated specifications that limited the permissible amount of contaminants. The silence of Dow and its co-defendants concerning the relevant properties of their own products and those of others effectively deny us from knowing to a certainty what the government would have done with that information. Given that silence, it does not lie in their mouths now to contend that they are entitled, as a matter of law, to an inference that their failure to disclose did not affect governmental behavior in any material way.

to no inquiry on the part of those most particularly affected in the military, then they are irrelevant and should be eliminated now. While it is interesting that the government considered building a plant at Weldon Springs, if that did not lead to any focused knowledge on the part of the rational decision maker, that too should be eliminated.

The Court will never be in a better position than now to view the scope of the contentions and to make these determinations.

Similarly, there are legal issues that can be simplified at this time. Where a defendant chemical company knew that one of its co-defendants had knowledge of the toxicity of the product, did it not have a duty to warn the government that such information existed and to tell it where it could be obtained?

Plaintiffs annex to this brief an outline of issues that they believe can be simplified or clarified at this time. The Court is respectfully requested to consider these proposals.

CONCLUSION

A new and tragic chapter in the history of the Viet Nam War is now written. The evidence is undisputed that the defendant chemical companies who supplied the military with dioxin-contaminated herbicides knowingly poisoned american soldiers and concealed that fact from a trusting military and from all but each other, choosing instead to repeatedly warrant the safety of their product. Defendants' failure to use readily available means of reducing the hazardous dioxin contamination of their herbicides evidenced a callous preference of profit to the health and safety of the troops who served this country, for which defendants should confront their days of reckoning before the juries who hear this case.

Respectfully submitted,

YANNACONE & ASSOCIATES

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APPENDIX I

Plaintiffs' Requested Findings

The summary judgment process has moved this case towards a more concrete definition of the contested factual issues, underlying the government contract defense. It is possible to begin to focus more specifically on the nature of the questions to be addressed in the final pre-trial order and in the jury instructions that must guide them in reaching special verdicts as to the government contract defense.

In this memorandum plaintiffs have presented their views on the meaning of the government contract defense as they believe the Court intended it to be decided by the jury.

Plaintiffs have also demonstrated that the moving defendants have not met their burden of proving that the military knew as much as or more than the defendants about the hazards to people that accompanied the use of the herbicides which the defendants supplied under their contracts with the military for use in Viet Nam during each of the years that such herbicides were used?

Plaintiffs believe that the evidence demonstrates the contrary and that accordingly defendants' motions for summary judgment should be denied. Concurrently with denial of defendants' motions for summary judgment plaintiffs respectfully request the following findings for the guidance of the parties in the preparation of the pre-trial order.

First, the herbicides involved in this lawsuit are not herbicides in general, but the particular herbicides containing varying degrees of dioxin contamination that were supplied by defendants to the military under their contracts and were later mixed together before use in Viet Nam.

Second, the "government" here means the appropriate military

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decision maker because as the Court made clear in its order, the government contract relates to the relationship between the supplier and the military. It is the military who was to be apprised of the hazards and risks known to the supplier, attendant to the particular herbicide supplied to the military 534 F.Supp. at 1055. Furthermore, it is not simply the military's knowledge about the potential formation of dioxin in herbicides, but more importantly, the actual degree of dioxin contamination in the herbicides supplied by defendants to the military, and the latter's knowledge of such actual dioxin contamination. In short, it is not herbicides' potential dioxin and hazards or risks in general, or the government in general, but the specific herbicides sold by these defendants to the military and the specific degree of their dioxin contamination, the risks and hazards, known by the defendants and the military about the herbicides supplied under the contracts and later used in Viet Nam.

Third, it is not just any person in the military who had to be apprised of such hazards and risks, but it must be one whose position and responsibility are such that he had an opportunity fairly to balance the herbicides' risks and benefits as a condition precedent to making the decision to use in Vietnam the particular herbicides supplied by the defendants. Thus, it will be defendants' burden to establish that there was in the military a decision maker who knew what the defendants knew about the herbicides they supplied to the military and the basis for such knowledge and when defendants knew it, and that the decision maker apprised of that knowledge occupied such level of the military authority that he had the responsibility and opportunity fairly to balance the risks and benefits of the specific herbicides supplied by the defendants. That defendants failed to meet this burden appears from their summary judgment submissions which address the general and fail to come to grips with the sharply focused requirements of the government contract defense as formulated by the Court. This is undoubtedly due to fact that no military decision maker, high or low, could possibly have known that defendants deliberately concealed the fact that the herbicides they supplied to the military were contaminated with dioxin and hazardous to human

health and concealed what defendants' could do to reduce such hazard. Nor could the military have known that the defendants misrepresented to the other agencies of government that the specific herbicides they sold to the government were safe to humans.

Fourth, the "knowledge" of the defendants in the context of this case includes all their knowledge relevant to the research, development, design, manufacture, analysis and testing of the specific herbicides sold by the defendants to the military. It includes all knowledge which defendants gained through their own experience and from each other pertinent to the hazards attendant to the herbicides they supplied to the military. Thus, knowledge includes what defendants actually knew or were charged with knowing about their particular herbicide by reason of their expertise and experience as manufacturers, and the state of the art and technology with respect to such herbicides.

Defendants' knowledge must obviously include their trade secrets, proprietary know-how, and confidential information. Knowledge as to the hazards or risks includes not simply defendants' beliefs on such subjects, but the bases for such beliefs, to wit, the data, assumptions, theories, analysis, reasoning, calculations, judgments and conclusions known to, used, or relied on by defendants. To meet their burden, defendants must have shared all knowledge with the military or they must prove that the military decision makers independently acquired such knowledge. Thus, a defendant would not be relieved of its duty to share with the military any knowledge relative to hazard, on which such defendant relied in reaching a belief that its particular herbicide was not hazardous, even if such belief was justified, in defendant's view.

Fifth, "knowledge about the hazards" of necessity also includes defendants' knowledge as to means of reducing the hazards through their analytical capability of detecting and testing for dioxin and use of the manufacturing and other processes which prevent, minimize, or eliminate dioxin.

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Sixth, if defendants establish that the military knew as much or more than the defendants about the hazards accompanying the use of the herbicides supplied by the defendants, defendants would not satisfy their burden, if they did not also disclose to the military, the means which defendants knew of reducing such hazards. As the Court pointed out, the military's decisions on the vital question of whether to use the defendants' herbicides "should at least be made on the basis of the readily available information" 534 F.Supp. at 1055.

"Thus the military would be keenly interested in knowing from the defendants whether there were means of avoiding or reducing dioxin and their attendant health hazards in the herbicides being supplied by defendants and the cost of doing so, so that the military decision maker would be provided with "an opportunity fairly to balance the weapons, risks and benefits." Id.

Accordingly, the defendants were under a duty to share with the military any knowledge defendants possessed as to the means of risk reduction.

Seventh, the phrase "hazards to people that accompanied the use of the herbicides" should not be interpreted to mean hazards only to the users or those otherwise exposed to the finished products.

"Hazards to people" means hazards to all people involved in the manufacture or use of the specific herbicides supplied by the defendants to the military.

The Court clearly intended that this broader meaning be assigned to that phrase. The Court's opinion speaks of "the extent of a supplier's knowledge about the hazards of the product being purchased." 534 F.Supp. 1053.

Since the use of the specific herbicides supplied by the defendants was only made possible by the manufacturing process which preceded it, in assessing the hazards and risks attendant to those herbicides, the military would be interested in knowing what hazards

to human health defendants knew of in connection with the production process. The evidence obtained through plaintiffs' discovery of defendants discloses that if there is dioxin in the intermediate materials involved in the manufacturing process, it will also be present in the finished product unless appropriate steps are taken to remove it. Thus, it was defendants' duty to share with the military such knowledge as defendants possessed with respect to the degree of dioxin contamination present in such intermediate materials and the health problems of their workers encountered during the manufacturing process of the particular herbicides supplied to the military, and to also disclose to the military what steps, if any, were taken by the defendants to remove dioxin from the finished product supplied to the military.

The defendants will be deemed to have violated their duty to warn if they conspired to conceal or in fact, did conceal from the military or did misrepresent to any government agency, what defendants knew about the herbicides they supplied to the military, to wit, that they were contaminated with dioxin in both their intermediate and finished product stages and were hazardous to human health.

Eighth, defendants duty to share its knowledge with the military included its knowledge as to the increased health hazards that would accompany the use of mixed dioxin contaminated herbicides. The evidence shows that the defendants were in communication with each other through meetings, telephone calls and correspondence. They knew that the herbicides each was selling to the military were contaminated with dioxin to varying degrees. They knew that there were means of analyzing, detecting, and removing dioxin from and reducing the health hazards attendant to the herbicides they were supplying to the military. They knew but concealed from the military the fact that the herbicides they were supplying to the military were being mixed before use in Viet Nam so that the herbicides of some defendants (Dow and arcules) although containing lesser degrees of dioxin contamination, would become more contaminated with dioxin as the result of combining them with the herbicides supplied by the other defendants which

contained higher levels of dioxin.

Finally, the issue at this phase of the litigation is not whether the military would have used defendants' herbicides in the Viet Nam War irrespective of the military's knowledge of the presence of dioxin in such herbicides, and irrespective of the military's knowledge of the hazards to human health accompanying the use of defendants' herbicides.

The premise of the government contract defense is that the military was entitled to be informed of the hazards so that it would have an opportunity fairly to balance risks and benefits. Any evidence offered to prove how that balancing judgment and decision would have been struck, or how the military did act or would have acted, if it knew what defendants knew, is irrelevant.

APPENDIX II

Nowhere is the trail of knowledge more actively pursued with less success than in the investigation of the Public Health Service.

Defendants have attempted to paint on a large canvas in broad brush strokes a panorama of the extensive knowledge within the United States Public Health Service of herbicides, the presence of a contaminant in 2,4,5-T (preferably TCDD), and that either in combination or separately they cause chloracne. The background color for the canvas is quite obviously orange. At various critical points the viewer's eye is directed to secondary colors of black comedones and white squares representing widely disseminated field trip and laboratory reports. The canvas painted in the Diego Rivera style, portrays a complete chronology of events and important personages spanning a particularly significant period in history, in this instance from 1949 through the last years of the 1960s.

According to defendants this magnificent canvas was viewed many times by important administrators, experts, and decision makers in other agencies of the Federal Government. The subject matter, of course, of defendants' canvas is gleaned from the deposition transcripts of a number of individuals who served in the United States Public Health Service during the critical 1960s. Even a cursory view raises questions as to the authenticity of the events portrayed. A closer scrutiny reveals that the canvas is more the product of the defendants' artistic imagination than a reflection of reality.

On the far left the defendants' depict a Dr. Louis Schwartz and Dr. Donald J. Birmingham visiting the Monsanto Plant in Nitro, West Virginia in 1949 to observe workers who had developed chloracne as a result of an incident during the manufacture of 2,4,5-T.

Dr. Donald Birmingham, deposed on Thursday, August 26, 1982, testified as follows with reference to the above (at page 21, line 19 through page 24, line 4)

It is quite obvious that, contrary to the assertion of defendants, Drs. Schwartz and Birmingham toured the Nitro facility not as a result of any particular incident and the presence of a number of cases of chloracne, but rather on an information gathering tour by Schwartz for the benefit of Birmingham who might sometime in the future have to deal with occupational disease problems at the on-site industry level. It is also obvious from the transcript that the visitors reviewed the chloracne victims as purely academic interest at the time. Equally obvious is the fact that they were not there expressly for that purpose nor did they follow through with additional research or investigations later. A visit by Dr. Birmingham in 1952 was again for purposes of observation and, although he viewed some chloracne victims, it is apparent from his testimony that he was not

there for that express purpose nor did he engage thereafter in any intensive scientific inquiry as to causal linkage between any chemical and chloracne. (page 27, line 1 through page 29, line 25).

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Other figures loom large on the panoramic canvas of defendants' portrayal of the USPHS. Among them can be seen Dr. George Lawton, who was a resident intern, in fact a third year medical intern, at the Cincinnati facility of the U.S. Public Health Service between 1963 and the end of 1964. It should be noted here that Dr. Lawton, upon leaving that facility in early 1965 to rejoin active service in a Navy facility in Indiana did not discuss or talk with anyone thereafter about his in-training laboratory experience while at the Cincinnati facility.

As for publication of knowledge, Dr. Lawton even disclaims having written a periodic report on his research.

Defendant, Hercules, placing extraordinary emphasis on the testimony of Dr. Lawton to abstractly paint its illusory picture of government knowledge about the hazards to humans associated with the defective herbicides, would have the world believe that the U.S. Public Health Service in 1963 conducted massive testing of 2,4,5-T herbicides under the supervision of Dr. Lawton. His testimony, as summarized from Hercules' moving papers, purportedly establishes that Dr. Lawton initiated a "controlled animal study of various 2,4,5-T herbicides," and that after conducting a literature search that defendant would have inferred exhausted the subject, Dr. Lawton selected the rabbit ear test for chloracne, designed a porphyrin test to detect liver damage and became aware of similarities between human and rabbit responses to the herbicides that were widely reported to the U.S. PHS. (Hercules Brief, pages 51-53)

But, this painting is not only illusory. On closer examination, the canvas is utterly blank. Dr. Lawton never mentions a "controlled animal" study. He simply acknowledges in response to questions from defendant's counsel that sometime in late 1963 or early 1964 he became involved in the study of 2,4,5-trichlorophenoxyacetic acid .

While the inference that defendant would like to have drawn from its selective extrapolation of Dr. Lawton's testimony is that a pre-eminent scientist had established proof positive of harmful effects on humans from a known contaminant and had displayed that proof for all the world to see, the fact is that all that is established is that a third-year intern conducting post-graduate experiments looking for chloracne

abandoned his work for another project and drew no conclusions.

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When Dr. Lawton left Cincinnati, his research project was not completed and was passed on to Dr. David Groth, who abandoned the project. This obviously does not put the imprimatur of the United States Public Health Service or any other government agency on the project as certifying the imputation of knowledge of health hazards to humans associated with the use of Agent Orange.

canvas is that of Dr. Herbert E. Stokinger, deposed on January 17, 1983. He too, was a member of the Cincinnati Group in the United States Public Health Service as chief toxicologist in the Division of Occupational Health between 1951 to 1977. As for Dr. Stokinger's contact with the laboratory researchers who were performing experiments on such compounds as 2,4,5-T, it does not appear that he had much direct contact at all.

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In fact awareness of such early incidences as Nitro, West Virginia and of the knowledge of Dr. Louis Schwartz, which defendants would like to be able to impute to important individuals such as Dr. Stokinger, seems to be impossible to do.

It is of considerable significance in relation to these motions for summary judgment that the reports of field trips by Dr. Schwartz and others were not generally distributed. On the contrary they were returned to the industrial facility marked "confidential", hardly an efficient means of broadcasting knowledge or creating a parity of knowledge. Moreover, Dr. Stokinger's testimony is so exquisitely clear on the purpose of this practice that if a motion for summary judgment is at all proper on this issue, it lies in favor, not of the defendants, but of the plaintiffs. Dr. Stokinger stated:

Regarding Dr. Stokinger's contacts with industrial experts and specific knowledge of chloracne and contaminants in 2,4,5-T, it appears from his direct testimony that the association that defendants would like to make and have everyone believe is incorrect, possibly even a fabrication, that the chemical company defendants knew full well the limits at which their products were manifestly harmful and yet led the government and everyone else to believe that their end products were in no way human health hazards.

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The singular significance of the studies of Dr. Lawton are

83-APR-27 PLAINTIFFS' BRIEF ON GOVERNMENTAL KNOWLEDGE page 64

reduced to insignificance through the mouth of Dr. Stokinger, Chief
toxicologist at the Cincinnati Facility.

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A careful analysis of the transcripts of the testimony of other individuals in the Cincinnati group, for example, Douglas H. K. Lee and Robert J. Anderson, elicit the same type of responses. It appears that little more than what has been reiterated above has come to light.

The original broad brush strokes of the defendants in their portrayal of specific knowledge within the USPHS and its dissemination throughout the Government turns out to be nothing more than a small miniature carried in a locket in the vest pocket of a few individuals in the United States Public Health Service, seen by nobody, signifying nothing.

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

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IN RE

"AGENT ORANGE"

PRODUCT LIABILITY LITIGATION

----- X

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U. S. DISTRICT COURT E.D.N.Y.

★ MAY 2 1983 ★

TIME A.M.
P.M.
MDL 381 (All Cases) -----

PLAINTIFFS MEMORANDUM AS TO
DEFENDANT MONSANTO'S KNOWLEDGE
ABOUT MANUFACTURING PROCESS,
DIOXIN AS CONTAMINANT DETECTION METHODS,
RISK REDUCTION METHODS,
AND HEALTH HAZARDS ASSOCIATED
WITH EXPOSURE TO DIOXIN

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**PLAINTIFFS MEMORANDUM AS TO
DEFENDANT MONSANTO'S KNOWLEDGE
ABOUT MANUFACTURING PROCESS,
DIOXIN AS CONTAMINANT DETECTION METHODS,
RISK REDUCTION METHODS,
AND HEALTH HAZARDS ASSOCIATED
WITH EXPOSURE TO DIOXIN**

Perhaps the most malevolent participant in the Chemical Company conspiracy to withhold from the Government and the general public the toxic effects of the dioxin content in their 2,4,5-T is the Monsanto Chemical Company.

It was in 1949, at their Nitro, West Virginia plant that Monsanto was first alerted to the existence of a contaminant present in their 2,4,5-T process. As a result of the "process upset", (Monsanto's term), workers participating in the refinement of sodium trichlorophenol (the precursor of 2,4,5-T) were exposed to the product. Ultimately, more than 200 workers in the 2,4,5-T department began to develop manifestations of toxic exposure.

Multiple workers' compensation claims were filed in which there were made acute complaints of liver damage, peripheral neuropathy, chloracne and severe systemic effects.

As a matter of fact, R. Emmet Kelly, M.D., for many years the Director of the Monsanto Medical Department and the person whose responsibility it was to investigate and supervise Nitro workers' complaints, in his deposition, acknowledged the causal relationship between 2,4,5-T exposure and claims of peripheral neuropathy, nerve demyelination, chloracne, and even

As was reported in the confidential Monsanto final report on 2,4,5-T terminating January of 1969:

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In 1969, Dr. Oettel at Badische expressed the opinion that tetrachlorodibenxodioxane (TDD) was the chloracnegenic material. In 1969, Dow presented an analytical method for the determination of TDD to representatives of Monstanto and Hercules Power and presumably to other interested parties. With the availability of the analytical method, Monsanto began to monitor various process streams in the Nitro plant. This program has continued to the present date."(1)

So serious was the problem that even in 1968, 50 years following the incident, after the medical director was informed that there had been no new chloracne cases since October of the previous year, he responded to that information by asking

(2)

Through the 1950's, Monsanto continued to be alerted to the problem of worker 2,4,5-T exposure. A 1955 confidential memorandum acknowledged widespread employee toxic reaction. It stated,

(3)

In 1964, Monsanto sent to Dow for analysis, Monsanto's 2,4,5-T. The dioxin content of the sample showed three to ten ppm's. (As high as this amount was, it was nowhere near the huge amount of toxic contamination of the Monsanto product that further analysis was about to reveal.) On the 24th day of February, 1965, the Medical Director, Kelly, spoke to his Dow counterpart, V.K. Rowe. Rowe acknowledged that Dow had 20 cases of chloracne and admitted that he was sure that dioxin was the cause. (4) The Memorandum clearly reveals that Dow's motivation for its secret March meeting was hardly salutary; since Dow suggested a

in an attempt to eliminate the contamination before the

(4) Of course the Public Health Service couldn't get into the act unless they found out about the toxic contaminant, a discovery that the conspiring chemical companies mightily tried to avoid. It was only one month later that V.K. Rowe wrote the infamous March 19 secret communication to certain 2,4,5-T manufacturers in which he alluded to the dioxin content of 2,4,5-T as

(5)

How toxic was Monsanto's 2,4,5-T? Enormously so. In a September 14, 1965, interdepartmental memo which was then filed in the "Confidential Folder," Monsanto admitted that

(6) That amount was 50 times greater than the one ppm dioxin which Dow claimed was safe (although plaintiff's evidence establishes that even 1 ppm is toxic).

Did Monsanto remove this acknowledged enormously toxic contaminant from 2,4,5-T? No. In a confidential communication dated almost four years later, Monsanto acknowledged that

(7)

Monsanto knew for 20 years before 1969 that the 2,4,5-T that they produced contained toxic impurities that were clearly and dramatically hazardous to humans. Their knowledge emanated from their own personal experiences, from the reports of industrial problems from other chemical companies producing the same product and from confidential exchanges from the manufacturers.

At the very time that they first began to produce Agent Orange, Monsanto discovered and was able to isolate dioxin as the toxic ingredient. There is no question that Dioxin was viewed by all as highly toxic. They knew that the 2,4,5-T sold by them to the government was being used in Viet Nam. Did Monsanto ever inform any

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governmental officer with regard to the risks of dioxin contamination associated with Agent Orange or the methods of dioxin control? No.

In their Verified Answer to the Plaintiffs' Interrogatories, Monsanto has admitted that they were not responsible for, familiar with, or participating in any warnings to the United States Government. (8) (Supplemental Answer to Interrogatory 2B(vi)).

Respectfully submitted,

YANNAcone AND ASSOCIATES

BY: _____

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

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U.S. DISTRICT COURT E.D.N.Y.

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IN RE

★ MAY 2 1983 ★

"AGENT ORANGE"

~~TIME 3:31 P.M.~~ (All Cases)

PRODUCT LIABILITY LITIGATION

----- X

PLAINTIFF'S MEMORANDUM AS TO
DEFENDANT DIAMOND SHAMROCK CORPORATION'S
KNOWLEDGE ABOUT MANUFACTURING PROCESS DIOXIN
AS CONTAMINANT, DETECTION METHODS,
RISK REDUCTION METHODS, AND HEALTH HAZARDS
ASSOCIATED WITH EXPOSURE TO DIOXIN
PLAINTIFFS' MANAGEMENT COMMITTEE

PLAINTIFFS' MANAGEMENT COMMITTEE

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PLAINTIFF'S MEMORANDUM AS TO DEFENDANT DIAMOND SHAMROCK CORPORATION'S
KNOWLEDGE ABOUT MANUFACTURING PROCESS DIOXIN AS CONTAMINANT,
DETECTION METHODS, RISK REDUCTION METHODS, AND HEALTH HAZARDS
ASSOCIATED WITH EXPOSURE TO DIOXIN

1. Documents submitted by Diamond Shamrock Corporation and testimony of the Defendant's own witnesses graphically demonstrate that there was an enormous amount of information exchanged relating to the contaminant involved herein, its manufacture, its means of analysis, methods of elimination, and last, and perhaps most importantly, knowledge by the defendants of the extent of contamination in the product sold to the government by Diamond.

2. The historical experience of Diamond Shamrock Corporation with 2,4,5-T is encapsulated in communication from Richard W. McBurney, M.D., dated March 27, 1963, addressed to Mr. Frank W. Jarvis, Vice-President of Diamond Shamrock Corporation,

This letter

refers to a building of ancient vintage where 2,4,5-T acid processing actually takes place and advises

At one time, approximately 40 of the 72 workers in the plant were affected by chloracne. Paragraph 5 of page 1 states,

3. This concern expressed by Dr. McBurney, however, does not begin and end with the problem of chloracne in the production workers. there was a growing concern about a medical condition known as porphyria cutanea tarda. This is a disease of the blood forming elements of the body in

which the hemoglobin of the red blood cells is broken down and, essentially, the spleen, liver, and kidneys are effected to a greater or lesser extent, depending upon the ingestion of such a chlorinated benzene. One of the physicians working on behalf of Diamond Shamrock at the Newark plant, Dr. Bleiberg, conducted a test on four men who had suffered the longest from chloracne only to find that two of these men had positive porphyn reactions in their urine.

4. Eugene Bak in the mid 1960's became production manager of the Diamond Shamrock Newark plant Bak was advised of health problems with the workers in the Newark plant when he first came to Newark and reported to Francis Kennedy, Plant Manager He felt chloracne was a serious health problem when he became production manager certainly half the workers in Acid and T-Ester Building were effected by chloracne the management suspected that the health hazard also included porphyria among the workers at Newark and that there was some positive findings in the urine specimens of these workers chloracne and liver problems existed in the Newark plant and he was concerned about it The plant manager for Diamond Shamrock at Newark considered chloracne to be a serious health problem while functioning in that capacity the same products were sold to the public that were suspected to cause chloracne in workers

5. these same products were sent overseas as Agent Orange Given the admitted knowledge of Diamond Shamrock's production manager, it is shocking to consider the complete lack of disclosure to the Government of the information possessed by Diamond Shamrock

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6. Having established the existence of and knowledge of health hazards, not only in the production stages of the product, but in the final product itself, consider the interchange of this information between Diamond Shamrock and the other defendants in this law suit. The deposition testimony of Edward Lee Chandler, taken on February 8, 1983, indicates that in 1957, Chandler became manager of the technical service department of Diamond Shamrock which was a liaison between the technical development of products and the sales of same.

At that time, Mr. Guidi was the manager of the Newark plant.

Diamond Shamrock's concern with the loss of two sizeable customers, Riverdale Chemical and Quaker City Tree, both of whom complained of chloracne problems with the use of the final products sold to them by Diamond Shamrock. The dermatological problem was so severe to the employees of these companies that Diamond lost them as customers.

7. Considering Diamond Shamrock's concern over the loss of customers because of health hazards and the use of their esters, it is not surprising that we see Francis Kennedy and Edward Lee Chandler on a list of invitees to the now infamous Dow-Midland Conference of March 24, 1965,

In that invitation

Rowe directly addresses the toxicological problems caused by the presence of certain highly toxic impurities in certain samples of 2,4,5-T. He does not confine these problems to any single company, but rather admits that the problem was industry-wide and that the

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purpose of the meeting itself was to deal with the toxicological and analytical aspects of this problem. It is indisputable that as of that date, Dow had possessed a method of analysis which it was willing to share with the invitees throughout the industry. Dr. Chandler never denied receiving this letter from Rowe, or in fact speaking to Rowe prior to his attendance at the meeting. He readily admitted attending this meeting.

It is obvious, first, that Dow Chemical was sharing with the rest of the industry the severe health hazards; secondly, Dow advised the industry that they had identified the causative agent as dioxin; thirdly, Dow had developed a new analytical method with a sensitivity level of 1 ppm; fourthly, Dow advised the industry of its intention to set a limit at that time of 1 ppm dioxin on this material; fifthly, Chandler admits that Dow had analyzed materials from other companies including Diamond Shamrock and found amounts as high as 10 ppm. of dioxin in the 2,4,5-T acid. The last paragraph in this exhibit reconfirms the purpose, industry-wide, of the Midland meeting of March 24, 1965, where Mr. Chandler concludes

Having considered the universality of the health problem of 2,4,5-T esters and the need throughout the industry to cooperate to some extent to alleviate this problem, what steps, if any, did Diamond Shamrock take to eliminate the contaminant dioxin from the T ester which comprised half of the Agent Orange product. Kennedy returned to the Newark Plant after attending the Dow conference at Midland on March 24, 1965 with the knowledge that there was a problem involving dioxin that had to be solved

Incidentally, Mr. Kennedy kept abreast of the chemical literature and he never came across the results of the Dow-Midland meeting in any

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of the literature

never saw a report of the meeting anywhere other than Edward Lee Chandler's report

8. It is significant that from the time Dow gave Diamond Shamrock the means of analyzing its product in March of 1965, it was not until September of 1967 that a purification column was installed on the production floor and put into use

Lastly, and perhaps most significantly, by Diamond Shamrock's own analysis from January to March of 1968, it was running 3.8 ppm dioxin and related compounds in its 2,4,5-TCP. In October through December 1968, it ran 9 ppm. Nevertheless, production continued, and the product was sold to the government. In the affidavit of Francis R. Kennedy, sworn to March 27, 1980, he speaks eloquently of the government's need for Agent Orange, but is absolutely silent on Diamond Shamrock's need for purification of a contaminated product that it knew that it was selling to the government without disclosure of the contamination problems. What effect, if any, does the performance of Diamond Shamrock corporation have on the moving parties herein? Did the concern expressed by Dow in the Midland meeting in March of 1965 terminate its concern of the contaminant which it knew at that time was industry wide? Or in fact did the purported concern for this serious health problem continue among the various moving defendants well beyond the Dow conference? An answer to that can clearly be seen in

Mr. Farnhan was convinced that no one else in the industry had done anything to remove the contaminant from their 2,4,5-T. Dow was extremely frightened that this situation might explode.

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Obviously, it was not the intention of Hercules, Dow, and others to disclose a problem of health to its customer, the United States Government, but rather to try and induce the industry at large to "clean-up" ("cover-up?") its product before the government found out about the health hazard. What greater evidence is needed of the conspiracy of silence where the industry admittedly knew of a health problem, unknown to the government, than Mr. Farnhan's own words of precaution that Dow is fearful if the government learned of the alarming amounts of acnegen, the entire industry would suffer.

Respectfully submitted,

YANNACONE & ASSOCIATES

BY _____

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FILED
IN CLERK'S OFFICE
U.S. DISTRICT COURT E.D.N.Y.
★ MAY 3 1983 ★
TIME A.M. _____
P.M. _____

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----X

In re

"AGENT ORANGE"

Product Liability Litigation

-----X

: MDL No. 381
:
: NOTICE OF CONFIDENTIALITY
: AND SECOND UPDATED INDEX
: OF CONFIDENTIAL DOCUMENTS
: OF DEFENDANT DIAMOND
: SHAMROCK CORPORATION

CADWALADER, WICKERSHAM & TAFT
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UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

-----X
In re : MDL No. 381
"AGENT ORANGE" : NOTICE OF CONFIDENTIALITY AND
Product Liability Litigation : SECOND UPDATED INDEX OF
CONFIDENTIAL DOCUMENTS OF
DEFENDANT DIAMOND SHAMROCK
CORPORATION
-----X

Defendant Diamond Shamrock Corporation ("Diamond Shamrock"), pursuant to the Protective Order regarding Production of Confidential Documents by Defendants dated February 6, 1981 (the "Confidentiality Order"), annexes hereto a Notice of Confidentiality (Exhibit A) and Second Updated Index of Confidential Documents (Exhibit B) for those documents which Diamond Shamrock has designated as "CONFIDENTIAL".

In accordance with paragraph 14 of the Confidentiality Order, Diamond Shamrock reserves its right to prepare and distribute further notices of confidentiality and indexes as the need arises, and to avail itself of the procedures set forth in the

Confidentiality Order for the documents identified therein.

Dated: New York, New York
April 29, 1983

CADWALADER, WICKERSHAM & TAFT

By Wendell B. Alcorn, Jr.
A Member of the Firm
Attorneys for Defendant
Diamond Shamrock Corporation
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New York, New York 10005
(212) 908-7000

TO: ATTACHED SERVICE LIST
HON. SOL SCHREIBER

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00026948					Typed list	Specifications for Amine Formulations
00026993	MR			2/65	Typed spec sheet	2# Dacamine-D
00026994	MR			5/65	Handwritten spec sheet	2# Dacamine-T Brush Killer
00026995	MR			5/65	Handwritten spec sheet	1#-1# Dacamine-D/T Brush Killer
00026996	MR			2/65	Typed spec sheet	4# Dacamine-D
00026997	MR			5/65	Handwritten spec sheet	4# Dacamine-D Non-Emulsifiable Conc.
00026998	MR			2/65	Typed spec sheet	4# Dacamine-T

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00026999	MR			5/65	Handwritten spec sheet	4# Dacamine-T Non-Emulsifiable Conc.
00027000	MR			5/8/64	Typed spec sheet	4# Dacamine-TP
00027001	MR			5/65	Handwritten spec sheet	4# Dacamine-TP Non-Emulsifiable Conc.
00027002	MR			2/65	Typed spec sheet	2#-2# Dacamine-D/T
00027003	MR			5/8/64	Typed spec sheet	4# Dacamine MCP
00027004	MR			5/18/64	Typed spec sheet	Swift's Formula No. 2
00027012	R.G. Light R.F. Lindemann	F.R. Kennedy	W.E. Hill, Jr.	5/26/64	Typed chart pg. 2	Specifications

10003

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0027030	G.L. Pratt			6/13/67	Typed spec sheet	2.67# Butyl-D Weed Killer
0027031	G.L. Pratt			6/13/67	Typed spec sheet	3.34# Butyl-D Weed Killer
0027032	G.L. Pratt			6/13/67	Typed spec sheet	4# Butyl-D Weed Killer
0027033	G.L. Pratt			6/13/67	Typed spec sheet	6# Butyl-D Weed Killer
0027034	G.L. Pratt			6/13/67	Typed spec sheet	6# Butyl-D Weed Killer-Oil Soluble
0027035	G.L. Pratt			6/13/67	Typed spec sheet	4# Butyl-T Brush Killer
0027036	G.L. Pratt			6/13/67	Typed spec sheet	6# Butyl-T Brush Killer
0027037	G.L. Pratt			6/13/67	Typed spec sheet	2#/2# Butyl D-T Brush Killer

10009

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027038	G.L. Pratt			6/13/67	Typed spec sheet	3.34# Isopropyl-D Weed Killer
00027039	G.L. Pratt			6/13/67	Typed spec sheet	3.34# Isopropyl-T Brush Killer
00027040	G.L. Pratt			6/13/67	Typed spec sheet	2#/2# Isopropyl D/T Brush Killer
00027041	G.L. Pratt			6/13/67	Typed spec sheet	2# 2-Ethyl Hexyl-D Weed Killer
00027042	G.L. Pratt			6/13/67	Typed spec sheet	2# 2-Ethyl Hexyl-D Weed Killer with Green Dye
00027043	G.L. Pratt			6/13/67	Typed spec sheet	2# 2-Ethyl Hexyl-D Weed Killer-Invert
00027044	G.L. Pratt			6/13/67	Typed spec sheet	4# 2-Ethyl Hexyl-D Weed Killer
00027045	G.L. Pratt			6/13/67	Typed spec sheet	4# Ethyl Hexyl-D Weed Killer

10010

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027046	G.L. Pratt			6/13/67	Typed spec sheet	4# 2 Ethyl Hexyl-D Weed Killer-Invert Emulsion
00027047	G.L. Pratt			6/13/67	Typed spec sheet	6# 2-Ethyl Hexyl-D Weed Killer
00027048	G.L. Pratt			6/13/67	Typed spec sheet	2# 2# Ethyl Hexyl-T Brush Killer-Invert Emulsion
00027049	G.L. Pratt			6/13/67	Typed spec sheet	4# 2-Ethyl Hexyl-T Brush Killer
00027050	G.L. Pratt			6/13/67	Typed spec sheet	4# 2EH-T Brush Killer Special Hard Water Formulation
00027051	G.L. Pratt			6/13/67	Typed spec sheet	4# 2-Ethyl Hexyl-T Brush Killer-Oil Soluble
00027052	G.L. Pratt			6/13/67	Typed spec sheet	4# 2 Ethyl Hexyl-T Brush Killer-Invert Emulsion

10011

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027053	G.L. Pratt			6/13/67	Typed spec sheet	6# 2-Ethyl Hexyl-T Brush Killer
00027054	G.L. Pratt			6/13/67	Typed spec sheet	6# 2-Ethyl Hexyl-T Brush Killer-Oil Soluble
00027055	G.L. Pratt			6/13/67	Typed spec sheet	6# 2 Ethyl Hexyl-T Brush Killer Special Hard Water Formulation
00027056	G.L. Pratt			6/13/67	Typed spec sheet	1#/1# 2-Ethyl Hexyl- D/T Brush Killer
00027058	G.L. Pratt			6/13/67	Typed spec sheet	Invert 1#/1# 2 Ethyl Hexyl-D/T Brush Killer
00027059	G.L. Pratt			6/13/67	Typed spec sheet	1-1/3#-2/3# 2 Ethyl Hexyl-D/T
00027060	G.L. Pratt			6/13/67	Typed spec sheet	1-1/3#-2/3# 2- Ethyl Hexyl-with Green Dye

10012

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027062	G.L. Pratt			6/13/67	Typed spec sheet	1-1/3#-D/1/3#-T (2 EH) Plus 1/3# Silvex-T Brush Killer
00027064	G.L. Pratt			6/13/67	Typed spec sheet	2#/2# 2 Ethyl Hexyl-D/T Brush Killer
00027065	G.L. Pratt			6/13/67	Typed spec sheet	Invert 2#/2# 2 Ethyl Hexyl-D/T Brush Killer
00027066	G.L. Pratt			6/13/67	Typed spec sheet	2-2/3# - 1-1/3# 2-Ethyl Hexyl-D/T Brush Killer
00027067	G.L. Pratt			6/13/67	Typed spec sheet	3#/3# 2-Ethyl Hexyl-D/T Brush Killer
00027069	G.L. Pratt			6/13/67	Typed spec sheet	3#/3# 2-Ethyl Hexyl D/T Brush Killer Oil Soluble
00027070						Duplicate of #00000776

10019

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027071	G.L. Pratt			6/13/67	Typed spec sheet	4# DACAMINE, Weed Killer
00027072	G.L. Pratt			6/13/67	Typed spec sheet	4# DACAMINE, Brush Killer
00027073	G.L. Pratt			6/13/67	Typed spec sheet	2#/2# DACAMINE D/T Brush Killer
00027074	G.L. Pratt			6/13/67	Typed spec sheet	2# Dimethylamine-D
00027077	G.L. Pratt			6/13/67	Typed spec sheet	6# Dimethylamine-D Weed Killer (Crude)
00027078	G.L. Pratt			6/13/67	Typed spec sheet	4# Triethylamine-T Amine Weed Killer
00027079	G.L. Pratt			6/13/67	Typed spec sheet	2#/1# Amine D/T
00027081	G.L. Pratt			6/13/67	Typed spec sheet	2#/2# Amine D/T Brush Killer

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027082	G.L. Pratt			6/13/67	Typed spec sheet	Swift's Formula #2
00027083	G.L. Pratt			6/13/67	Typed spec sheet	Swift's Formula #2
00027084	G.L. Pratt			6/13/67	Typed spec sheet	4# Silvex Weed Killer
00027104	M. Rosenfeld	F.G. Steward	F.R. Kennedy J.R. Croxton	9/17/69	Typed memo	4" Alkanolamine-D Formulation & Notes
00027105					Handwritten sheet	4# Alkanolamine-D
00027139	MR			3/68	Handwritten specs	2# DMA-D
00027183				1/68	Typed cost sheet	4# Dimethylamine-D
00027184				1/68	Typed cost sheet	Crude 6# Dimethylamine-D

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027185				1/68	Typed cost sheet	4# T-Amines
00027186				1/68	Typed cost sheet	Swift Form #2
00027193				1/68	Typed cost sheet	4# Dacamine D
00027194				1/68	Typed cost sheet	2# 2# Dacamine D/T
00027195				1/68	Typed cost sheet	Singleshot
00027197				1/68	Typed cost sheet	2.67 Butyl D
00027198				1/68	Typed cost sheet	2.67# Butyl-D
00027199				1/68	Typed cost sheet	3.34# Butyl-D

91001

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027200				1/68	Typed cost sheet	6# Butyl-D O/S
00027201				1/68	Typed cost sheet	2# 2-EH-D
00027202				1/68	Typed cost sheet	4# 2-EH-D
00027203				1/68	Typed cost sheet	4# Butyl T
00027204				1/68	Typed cost sheet	3.34 Iso-T
00027205				1/68	Typed cost sheet	6# 2-EH-T
00027206				1/68	Typed cost sheet	4# Silvex Emul. Conc.
00027207				1/68	Typed cost sheet	2# 2# Butyl Brush Killer

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10018

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027208				1/68	Typed cost sheet	1-1/3# - 2/3# 2EH Brush Killer
00027209				1/68	Typed cost sheet	1# 1# 2-EH Brush Killer
00027210				1/68	Typed cost sheet	3# 3# 2-EH Brush Killer
00027211				1/68	Typed cost sheet	2# 2-EH-T Invert B/K
00027212				1/68	Typed cost sheet	4# 2-EH-T Invert
00027215				2/68	Typed Interim Standard	1-1/3# - 1/3# 2EH D/T - 1/3# Silvex TP
00027975	RLS			9/10/69	Typed Data Sheet (Blank)	Dacthal Spraying Data Sheet
00030048					File folder cover	

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030049						Duplicate of #00015204
00030050						Duplicate of #00015222
00030051- 00030052						Duplicate of #00015220-00015221
00030053	R.A. Guidi	R.A. Remerscheid		2/9/66	Typed memo	DACAMINE Inventories
00030054	J.C. Kelly	R.L. Dezember W.W. Mosley E.G. Osborne J.P. McCabe W.A. Cunningham R.J. Orlik C.W. Feinberg W.H. Pierson J.E. Mitchell	J.O. King H.A. Branson	11/24/65	Typed memo	Warehouse Inventories of Herbicides
00030055	Bill				Handwritten note	Dacamine 4D
00030056	J.E. Mitchell	H.A. Branson	J.C. Kelly	12/7/65	Typed memo	American Warehouse Memorandum - Dacamine Formula- tions 11/24/65

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030057	J.C. Kelly	J.P. McCabe R.L. Dezember E.G. Osborne J.E. Mitchell R.J. Orlik		1/7/66	Typed memo	Warehouse Inventory of DACAMINE
00030058	W.H. Lough- ridge Bel Chemical & Supply Co.	W.A. Cunningham		12/15/65	Typed letter	Dacamine Inventory
00030059	Bill Mosley	J.C. Kelly		12/16/65	Typed memo	Poston Warehouse Inventory of Dacamine
00030060	C. Feinberg	J.C. Kelly	J.O. King H.A. Branson	12/10/65	Typed memo	Warehouse Inventory of Dacamine Formu- lations
00030061	R.J. Orlik	J.C. Kelly		1/11/65	Typed memo	Allison Whse. Phoenix Dacamine Inventory
00030062	J.E. Mitchell	J.C. Kelly	H.A. Branson File	2/1/66	Typed memo	Dacamine Formu- lations in Lindsey Warehouse Salt Lake City
00030063	J.C. Kelly	R.A. Guidi	J.O. King	2/8/66	Typed memo	Union Whse.
00030064	J.O. King	J.S. Cort, Jr.		8/6/65	Typed memo	Dacamine Sales

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030065- 00030067						Duplicate of #00015345-00015346A
00030068						Duplicate of #00008970
00030069						Duplicate of #00015420
00030070	J.S. Cort, Jr.	R.A. Remerscheid	J.O. King F.R. Kennedy J.C. Kelly	2/25/64	Typed memo	DACAMINE Containers
00030071- 00030072	R.A. Remerscheid	J.S. Cort, Jr.	J.O. King F.R. Kennedy J.C. Kelly	2/20/64	Typed memo	Dacamines
00030073						Duplicate of #00015426
00030074- 00030075						Duplicate of #00015429
00030076	J.S. Cort, Jr.	R.A. Remerscheid	J.O. King M.F. Wilkerson	2/26/63	Typed memo	Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030077- 00030078	R.A. Remerscheid	J.S. Cort, Jr.	F.R. Kennedy J.O. King M.F. Wilkerson	12/24/63	Typed memo	Dacamine Formulations
00030079- 00030080					Typed chart	Dacamine Sales- 1963 - Des Moines, Plant
00030081	J.S. Cort, Jr.	R.A. Remerscheid	M.F. Wilkerson J.O. King	12/19/63	Typed memo	Dacamine Labels
00030082						Duplicate of #00015507
00030083						Duplicate of #00015494
00030084- 00030090						Duplicate of #00015495-00015501
00030091- 00030094						Duplicate of #00015502-00015505
00030095						Duplicate of #00015506

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0030096- 0030097						Duplicate of #00009930-00009931
0030098- 0030103						Duplicate of #00009932-00009937
0030104- 0030105	T.O. Evrard R.J. Marrese			2/16/62	Typed report	<u>Dacamine: Oleic</u> <u>1,3 Propylene</u> <u>Diamine Salts of</u> <u>2,4-D and 2,4,5-T</u>
0030106					File folder cover	
0030107						Duplicate of #00015602
0030108- 0030109	Merle E. Engleka	J.P. McCabe	R.A. Bruckman R.A. Guidi	8/6/70	Typed memo	Work on 2-2 Dacamine for State Bid
0030110	F.G. Steward	J.P. McCabe	R.A. Guidi F.R. Kennedy M. Rosenfeld	9/19/69	Typed memo	Special Dacamine - ID/IT
0030111	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy	9/12/63	Typed memo	Competitive Oil- Soluble Amine - D Formulations

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030112						Duplicate of #00019395
00030113	R.A. Remerscheid	C.L. Troph	R.A. Guidi G.L. Pratt	4/3/69	Typed memo	Dacamine 4T Labels
00030114	R.A. Guidi	R. Chonoles	J.O. King R.A. Remerscheid	3/31/69	Typed memo	Old DACAMINE Formulations
00030115	RAG	JOK		3/28/69	Handwritten cover memo	Dacamine Formulations
00030116						Duplicate of #00015027
00030117- 00030119						Duplicate of #00017756-00017758
00030138						Duplicate of #00030056
00030139						Duplicate of #00030058

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0030141						Duplicate of #00030060
0030142						Duplicate of #00030059
0030144						Duplicate of #00030062
0030146						Duplicate of #00030061
0030147						Duplicate of #00030063
0030149	R.A. Remerscheid	J.W. Daniel	E.L. Chandler R.A. Guidi J.O. King J.A. Latting G.A. Lawrence	7/23/68	Typed memo	Complaint DAC 249 - Dacamine 2D/2T
0030150	J.W. Daniel	J.O. King E.L. Chandler J.A. Latting G.A. Lawrence R.A. Remerscheid R.A. Guidi J.W. Daniel		7/8/68	Complaint Status Report	DACAMINE 2D/2T

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030179	B.A. Sprayberry	E.L. Chandler	Paul W. Nadig R.A. Remerscheid R.A. Guidi R.L. Urbanowski	5/17/67	Typed memo	Crop Rider 80-WOW (Des Moines 5/5/67- 5/11/67).
00030180- 00030181	B.A. Sprayberry	Paul N. Nadig	R.A. Remerscheid R.L. Urbanowski R.A. Guidi	3/16/67	Typed memo	80% Wetttable Powders of 2,4-D and 2,4,5-T
00030193- 00030196					Typed report	Monthly Inventory Ag Chem Division February 1972
00030197- 00030199					Typed report	Monthly Inventory Helena Chem. Co. January 1972
00030200- 00030202					Typed report	Monthly Inventory Helena Chemical Co. December 1971
00030203- 00030205					Typed report	Monthly Inventory Ag Chem Division November 1971

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030206- 00030208					Typed report	Monthly Inventory Ag Chem Division October 1971
00030209- 00030211					Typed report	Monthly Inventory Ag Chem Division September 1971
00030212- 00030214					Typed report	Monthly Inventory Ag Chem Division August 1971
00030215- 00030219					Typed report	Monthly Inventory Ag Chem Division April 1971
00030220	F.R. Kennedy	C.H. Gilbert		3/30/71	Typed memo	Des Moines Raw Material Inventory
00030221- 00030222					Typed report	Monthly Inventory Ag Chem Division August 1970
00030223- 00030224			R.A. Guidi J.O. King P. McCabe D. Brakman G. Rauch G. Laverance	2/12/70	Typed memo	Inventory - Des Moines Plant

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00030225				11/69	Typed invoice	Ag Chem Division
00030226- 00030227	F.G. Steward	R.A. Remerscheid	F.R. Kennedy A.M. Hauser	12/1/69	Typed memo	Shipment to Des Moines
00030228	F.G. Steward	R.A. Remerscheid	F.R. Kennedy A.M. Hauser	10/1/69	Typed memo	Shipment to Des Moines
00030229	F.G. Steward	R.A. Remerscheid	F.R. Kennedy A.M. Hauser	10/15/69	Typed memo	Shipment to Des Moines
00030230- 00030235					Typed report	Monthly Inventory Biochemicals Division
00030236- 00030242				2/28/70	Typed report	Monthly Inventory Biochemicals Division
00030243- 00030249					Typed report	Inventory/Budget
00030250- 00030255					Typed report	Monthly Inventory Biochemicals Division September 1969

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030256	C.T. Baldanza	L.E. Rauch	W.H. Bricker W.J. Byrne C.H. Gilbert R.A. Guidi J.O. King R.A. Remerscheid	10/8/69	Typed memo	Final Production Levels - 1970 Budget
00030257- 00030262				8/31/69	Typed report	Monthly Inventory Biochemicals Division August 1969
00030344	R.A. Guidi	G.A. Lawrence	M.E. Engleka R.A. Bruckman H.A. Branson R.E. Gilmore J.P. McCabe	7/17/70	Typed memo	Dacamine/Silvex Formulation
00030346	M. Engleka	R.A. Guidi	G.D. Munger G.A. Lawrence H.A. Branson R.A. Bruckman	7/17/70	Typed memo	DACAMINE/Silvex Formulation
00030347	R.A. Guidi	M.E. Engleka	G.D. Munger G.A. Lawrence H.A. Branson R.A. Bruckman	6/9/70	Typed memo	DACAMINE/Silvex Formulation

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030348	G.A. Lawrence	R.A. Guidi G. Donald Munger	H.A. Branson	5/1/70	Typed memo	Weed-D-Con
00030365	R.A. Remerscheid	J.P. McCabe	R.A. Guidi F.R. Kennedy M.E. Engleka	12/24/69	Typed memo	Milt Rosenfeld's Recent Visit to Des Moines
00030366- 00030367	Milt Rosenfeld	R.A. Remerscheid		12/19/69	Typed memo	Des Moines Trip
00030368- 00030370	Milt Rosenfeld	R.A. Remerscheid		12/19/69	Typed memo	Lab Work Projects Progress Report
00030371- 00030373	R.A. Remerscheid	R.A. Guidi	M.E. Engleka	10/1/69	Typed memo	Phenoxy Emulsi- fiable Concentrates
00030374	C.H. Gilbert	Ray Guidi		10/13/69	Handwritten note	Dacamine

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030444	F.R. Kennedy	J.C. Kelly		1/9/64	Handwritten chart	Emulsifiers
00030453	A. Casatelli	J. Burton	C. Feinberg J.O. King	6/25/59	Typed memo	Field Project #7 at V.P.I.
00030454- 00030455	C. Feinberg	J.O. King	J. Burton A. Casatelli G.F. Ham	6/16/59	Typed memo	Field Project #6 at Blacksburg, Virginia
00030456	C. Feinberg	G.F. Ham	J. Burton A. Casatelli J.O. King	5/18/59	Typed memo	Field Project #6
00030457	G.F. Ham	J.O. King	C. Feinberg J. Burton D.M. Warburton H.S. Weiner	5/18/59	Typed memo	Herbicide Formula- tion Project - V.P.I.

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000149- 00000150	M. Rosenfeld	F. Gordon Steward	R. Chonoles G.L. Pratt	6/19/69	Typed memo	4# Singleshot Formulation
00000151	Gordon	Bob	M. Rosenfeld	5/1/69	Handwritten memo	Replacement for Emulsifier
00000152	E.G. Weierich	F. Gordon Steward	J. Fleming	4/29/69	Typed letter	Answer to Steward's Request for Substi- tute for Emulsifier
00000154	F. Gordon Steward	E. Weierich	R. Chonoles J. Flemming G.L. Pratt	3/10/69	Typed memo	Substitute Amine For Singleshot
00000162	F.G. Steward			1/8/68	Cost sheet	Singleshot
00000164- 00000165	M. Rosenfeld	F.G. Steward	F.R. Kennedy B.A. Sprayberry	11/6/67	Typed memo	Singleshot
00000166	M. Rosenfeld	F.G. Steward	F.R. Kennedy B.A. Sprayberry	9/14/67	Typed memo	Singleshot-Patent Situation
00000167	M. Rosenfeld	F.G. Steward	F.R. Kennedy	8/15/67	Typed memo	Patent Infringement- Singleshot

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00000168	F.G. Steward	F.R. Kennedy	M. Rosenfeld
00000169	F.G. Steward		
00000170- 00000171	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld
00000173	F. G. Steward		
00000174	Gordon	Gene	

DATE	TYPE DOCUMENT	SUBJECT
7/26/67	Typed memo	Patent Infringement- Singleshot
1/17/63	Cost sheet	Singleshot
6/22/67	Handwritten note	Patent Infringement- by Singleshot-Armour Decamine Patent
4/3/67	Handwritten memo	Crop Rider 322 Costs
3/29/67	Handwritten memo	Crop Rider 322

DOCUMENT
NUMBERS

AUTHOR

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00000175	M. Rosenfeld	F.G. Steward
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00000176	R.L. Urbanowski	F.G. Steward
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00000177	Gordon	Milt
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00000178	R.A. Guidi	F.R. Kennedy
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00000179		
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00000180- 00000181	M. Rosenfeld	F.G. Steward
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F.R. Kennedy R.A. Guidi	3/23/67	Typed memo	Crop Rider 322-the Results of Test
R.A. Guidi F.R. Kennedy B.A. Sprayberry	3/21/67	Typed memo	Crop Rider 322 Singleshoot
	3/20/67	Handwritten memo	Crop Rider 322
	2/27/67	Typed memo	Request for "Cold Storage Stability Data" for Crop Rider 322
		Typed cost sheet	2,4-D Acid and Emulsifier
F.R. Kennedy	1/3/67	Typed memo	Singleshoot-Progress Report on Search Through Armour Ethomeens to Find a Suitable Replacement for Atlox G-3780A

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000249					Typed instructions	Tentative Specifica- tion of Dacamine Emulsifiable Concen- trate
00000404- 00000411	F. Gordon Steward	S. Greenbaum	R. Chonoles W.A. Goodloe G.M. Salvatto	2/19/69	Handwritten report	Ester Production at Newark
00000434- 00000435	Pratt	F.R. Kennedy	R.A. Guidi E.J. Ferretti	2/68	Handwritten list prepared by Greens Bayou	Itemizing the Dacthal Plant Rehabilitation for Central Engineering
00000651					Typed chart	Agricultural Chemicals Division Plant Capacities - 1967
00000652					Typed data	Agricultural Chemicals Division Conversion Data- 1967
00000653	R.L. Urbanowski	H.V. Jackson F.G. Steward	R.A. Guidi F.R. Kennedy J.R. Trocki	12/18/67	Typed memo	Plant Capacities and Conversion Data

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000654						Duplicate of #00000651
00000655						Duplicate of #00000652
00000657- 00000659	R.L. Urbanowski	F.G. Steward	R.A. Guidi F.R. Kennedy	9/22/66	Typed memo and attached table and data	Newark Plant Capacity
00000758	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner P.E. Johnson	7/10/69	Typed memo	Dacamine emulsifiers

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000759	P.E. Johnson	P.J. Koskey	J.A. Ignatoski B.D. Knoblock F.G. Steward H.S. Weiner	7/11/69	Typed memo	Substitution of Ingredients in Proprietary Herbicides
00000760	F. G. Steward	P.E. Johnson	R. Chonoles R.A. Guidi P.J. Koskey M. Rosenfeld H.S. Weiner	5/26/69	Typed memo	Dacamine Raw Materials
00000761	Milt	Gordon		3/31/69	Handwritten memo	Emulsifiers for Dacamines in Mexico
00000762	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner	3/10/69	Typed memo	Dacamine Emulsifiers
00000763	F. Gordon Steward	Valentin Contreras Flores, Inferdinosa	R. Chonoles P.J. Koskey	3/10/69	Typed letter	Sample of Emulsifier
00000764- 00000765	Milt Rosenfeld	F. Gordon Steward	R. Chonoles	2/27/69	Handwritten memo	Dacamine in Mexico
00000766	Gordon	M.R.		2/13/69	Handwritten memo	Dacamine in Mexico

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00000767	Paul J. Koskey	F. Gordon Steward	B.D. Knoblock H.S. Weiner	1/31/69	Typed memo	Dacamine Emulsifiers
00000768	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner	12/13/68	Typed memo	Dacamine Manufacture in Mexico
00000769	F.G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock M. Rosenfeld H.S. Weiner	11/27/68	Typed memo	Dacamine Manufacture in Mexico
00000770	F. Gordon Steward	Valentin Contreras Flores, Inferdinosa	R. Chonoles R.A. Guidi B.D. Knoblock P.J. Koskey H.S. Weiner	11/27/68	Typed letter	Sample of Amine and 2# Dacamine
00000771	Paul J. Koskey	F.G. Steward	B.D. Knoblock R.A. Guidi H.S. Weiner	11/19/68	Typed memo	2,4-D Acid - Polaquimia - Additional Samples
00000773- 00000775	F. G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock H.S. Weiner M. Rosenfeld	11/5/68	Typed memo	Dacamine Manufacture in Mexico

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00000776	G.L. Pratt		
00000777	Supplier		
00000779	Paul J. Koskey	F. Gordon Steward	B.D. Knoblock H.S. Weiner V. Contreras R.A. Guidi
00000780	F. Gordon Steward	Valentin Contreras Flores, Inferdinosa	R. Chonoles R.A. Guidi B.D. Knoblock S.S. Savage H.S. Weiner
00000781	R.A. Guidi	F.R. Kennedy	S.S. Savage B.D. Knoblock H.S. Weiner Valentine Contreras Flores
00000782	Gordon	M.R.	

00001

DATE	TYPE DOCUMENT	SUBJECT
6/13/67	Typed report	Spec. No: 71-3231 Product: 2# Dacamine- D Weed Killer (Oil Soluble)
	Printed chart	Aromatics/Solvency Tests
10/9/68	Typed memo	Dacamine Manufacture in Mexico
9/23/68	Typed letter	Raw Materials for Manufacture of Dacamine
9/3/68	Typed memo	Dacamine - Mexico
9/10/68	Handwritten memo	Dacamine Raw Material Samples

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00000905	F. Gordon Steward		
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00000913	F. Gordon Steward		
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00000916	A.M. Hauser		
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00000921	F. Gordon Steward		
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00000926	A.M. Hauser		
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00000931	F. Gordon Steward		
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94004

DATE	TYPE DOCUMENT	SUBJECT
2/9/66	Typed report (p. 2)	Operating Comments Plant Technical Jan. 1966
3/9/66	Typed report (p. 2)	Operating Comments Plant Technical Feb. 1966
4/13/66	Typed report (p. 2)	Summary of Variances March 1966; Agric. Chemicals Div. - Newark Plant
4/13/66	Typed report (p. 2)	Operating Comments Production March 1966
5/11/66	Typed report (p. 2)	Summary of Variances April 1966
5/9/66	Typed report (p. 2)	Operating Comments Plant Technical April 1966

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00000935	A.M. Hauser		
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00000940- 00000941	F. Gordon Steward		
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00000947	A.M. Hauser		
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00000952	F. Gordon Steward		
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00000961	F. Gordon Steward		
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00000970- 00000971	F. Gordon Steward		
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DATE	TYPE DOCUMENT	SUBJECT
6/8/66	Typed report (p. 2)	Summary of Variances May 1966
6/8/66	Typed report (pp. 2&3)	Operating Comments Plant Technical May 1966
7/13/66	Typed report (p. 2)	Summary of Variances June 1966
7/13/66	Typed report (p. 2)	Operating Comments Plant Technical June 1966
8/10/66	Typed report (p. 3)	Operating Comments Plant Technical July 1966
9/6/66	Typed report (pp. 2&3)	Operating Comments Plant Technical August 1966

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00000981- 00000982	F. Gordon Steward		
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00000983	A.M. Hauser		
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00000991	F. Gordon Steward		
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00000995	A.M. Hauser		
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00000999- 00001000	F. Gordon Steward		
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10042

DATE	TYPE DOCUMENT	SUBJECT
10/12/66	Typed report	Pages 2 and 3 of something re: Esters and Dacamines
11/9/66	Typed report (p. 1)	Summary of Variances October 1966
11/9/66	Typed report (p. 2)	Operating Comments Plant Technical October 1966
12/7/66	Typed report (p. 3)	Summary of Variances November 1966
12/7/66	Typed report (pp. 2&3)	Operating Comments Plant Technical November 1966

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
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00001007	A.M. Hauser		
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00001011	E. Bak		
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00001013- 00001014	F. Gordon Steward		
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00001023- 00001025	F. Gordon Steward		
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00001026	FGS		
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10043

DATE	TYPE DOCUMENT	SUBJECT
1/11/67	Typed report (p. 2)	Summary of Variances December 1966
1/11/67	Typed report (p. 2)	Operating Comments Production December 1966
1/11/67	Typed report (pp. 2&3)	Operating Comments Plant Technical December 1966
2/8/67	Typed report	Operating Comments Plant Technical January 1967
2/8/67	Typed data	Operating Data January 1967

DOCUMENT
NUMBERS

AUTHOR

ADDRESSEE

00001035- F. Gordon
00001036 Steward

00001037 FGS

00001046- F. Gordon
00001048 Steward

00001049 FGS

00001061- F. Gordon
00001063 Steward

00001064 FGS

00001067 A.M. Hauser

1004

COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
	3/8/67	Typed report	Operating Comments Plant Technical February 1967
	3/8/67	Typed data	Operating Data February 1967
	4/12/67	Typed report	Operating Comments Plant Technical March 1967
	4/12/67	Typed data	Operating Data March 1967
	5/10/67	Typed report	Operating Comments Plant Technical April 1967
	5/10/67	Typed data	Operating Data April 1967
	6/7/67	Typed report (p. 3)	Summary of Variances May 1967

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
00001073- 00001075	F. Gordon Steward		
00001076	FGS		
00001084- 00001086	F. Gordon Steward		
00001087	FGS		
00001096	F. Gordon Steward		
00001107- 00001109	F. Gordon Steward		
00001110			

10043

DATE	TYPE DOCUMENT	SUBJECT
6/7/67	Typed report	Operating Comments Plant Technical May 1967
6/7/67	Typed data	Operating Data May 1967
7/12/67	Typed report	Operating Comments Plant Technical June 1967
7/12/67	Typed report	Operating Data June 1967
8/9/67	Typed report (p. 2)	Operating Comments Plant Technical July 1967
9/13/67	Typed report	Operating Comments Plant Technical August 1967
9/13/67	Typed data	Operating Data August 1967

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
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00001119- 00001121	F. Gordon Steward		
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00001122	FGS		
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00001129- 00001131	F. Gordon Steward		
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00001132	FGS		
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00001140- 00001141	F. Gordon Steward		
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00001169- 00001171	F. Gordon Steward		
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00001172	FGS		
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1000

DATE	TYPE DOCUMENT	SUBJECT
10/11/67	Typed report	Operating Comments Plant Technical September 1967
10/11/67	Typed data	Operating Data September 1967
11/8/67	Typed report	Operating Comments Plant Technical October 1967
11/8/67	Typed data	Operating Data October 1967
12/13/67	Typed report (pp. 2&3)	Operating Comments Plant Technical November 1967
2/7/68	Typed report	Operating Comments Plant Technical January 1968
2/7/68	Typed data	Operating Data January 1968

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
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00001180- 00001181	F. Gordon Steward		
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00001193- 00001195	F. Gordon Steward		
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00001196	FGS		
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00001197	A.M. Hauser		
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00001206- 00001209	F. Gordon Steward		
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00001210	FGS		
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00001211	A.M. Hauser		
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100

DATE	TYPE DOCUMENT	SUBJECT
3/12/68	Typed report (pp. 2&3)	Operating Comments Plant Technical February 1968
4/10/68	Typed report	Operating Comments Plant Technical March 1968
4/10/68	Typed data	Operating Data March 1968
5/7/68	Typed report (p. 1)	Summary of Variances April 1968
5/8/68	Typed report	Operating Comments Plant Technical April 1968
5/8/68	Typed data	Operating Data April 1968
6/11/68	Typed report (p. 1)	Summary of Variances May 1968

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
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00001219- 00001221	F. Gordon Steward		
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00001222	FGS		
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00001231- 00001233	F. Gordon Steward		
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00001234			
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00001243	F. Gordon Steward		
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00001253- 00001254	F. Gordon Steward		
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10043

DATE	TYPE DOCUMENT	SUBJECT
6/11/68	Typed report	Operating Comments Plant Technical May 1968
6/12/68	Typed data	Operating Data May 1968
7/10/68	Typed report	Operating Comments Plant Technical June 1968
	Typed data	Operating Data June 1968
8/7/68	Typed report (p. 2)	Operating Comments Plant Technical July 1968
9/11/68	Typed report	Operating Comments Plant Technical August 1968

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
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00001255	FGS		
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00001257	A.M. Hauser		
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00001262- 00001264	F. Gordon Steward		
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00001265	FGS		
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00001266	A.M. Hauser		
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3409

DATE	TYPE DOCUMENT	SUBJECT
9/11/68	Typed data	Operating Data August 1968
	Typed report (p. 2)	Summary of Variances September 1968
10/9/68	Typed report	Operating Comments Plant Technical September 1968
10/9/68	Typed data	Operating Data September 1968
	Typed report (p. 1)	Summary of Variances October 1968

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
00001285- 00001287	F. Gordon Steward		
00001288	FGS		
00001459- 00001460	F.G. Steward	P.J. Koskey	R. Chonoles R.A. Guidi B.D. Knoblock H.S. Wiener
00001727	M. Rosenfeld	F.G. Steward	R. Chonoles R.L. Urbanowski
00001730	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi
00001731			

10050

DATE	TYPE DOCUMENT	SUBJECT
12/11/68	Typed report	Operating Comments Plant Technical November 1968
12/11/68	Typed data	Operating Data November 1968
5/21/69	Typed memo	Trichlorophenol & Sodium Trichlorophenate Polaquimia, S.A.
12/24/68	Typed memo	Proposed Solvent
3/21/68	Typed memo	Dacthal
	Handwritten chart	Dacthal

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE
00001732- 00001733	JM	F.G.
00001747	M. Rosenfeld	F.G. Steward
00001748- 00001749	F. Gordon Steward	F.R. Kennedy
00001750- 00001752	M. Rosenfeld	F.G. Steward
00001756	Milton Rosenfeld	V.P. Kuceski
00001757	Milton Rosenfeld	Wiese

10031

COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
F.R.	3/8/68	Handwritten memo & invoice	Inventory of Termil
F.R. Kennedy B.A. Sprayberry	11/7/67	Typed memo	New Product - Imidazoline
M. Rosenfeld	10/20/67	Handwritten memo	Meeting with NOPCO
F.R. Kennedy	10/12/67	Typed memo	Dacthal (with attached charts)
M.H. Wiese F.R. Kennedy F.G. Steward	9/18/67	Typed letter	Proposed Solvent
F.R. Kennedy F.G. Steward	8/31/67	Typed letter	Proposed Solvent

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00001763	F. Gordon Steward	C. Gustafson	F.R. Kennedy	4/26/67	Typed memo	Hexachlorobenzene
00001764	K. Shaffert			11/18/53	Typed report	Abstract of Joint Army/Navy Specifica- tion H257 for Hexa- chlorobenzene
00001765	M. Rosenfeld	J. Burton	W.J. Esselstyn	8/4/58	Typed memo	Hexachlorobenzene
00001766	M. Rosenfeld	J. Burton		10/10/58	Typed memo	Hexachlorobenzene
00001767- 00001768	J.M.	F.R.K.	F.G. Steward	3/31/67	Handwritten memo	Telephone Conversa- tion with Supplier
00001769	M. Rosenfeld	F.G. Steward	F.R. Kennedy	1/6/67	Typed memo	Solvent
00001770	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.L. Urbanowski	12/13/66	Typed memo	Treflan
00002262						Duplicate of #000003755
00003251- 00003252	M. Rosenfeld	F.G. Steward	R.A. Guidi F.R. Kennedy J.P. McCabe	10/7/69	Typed memo	Dacamine Emulsification
00003253- 00003256	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. P. t	2/28/69	Typed memo	Dacamine-4D Progress report

10053

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00003479- 00003480						Duplicate of #00001459-00001460
00003481- 00003482						Duplicate of #00001459-00001460
00003755- 00003756	F.R. Kennedy	R.A. Guidi		1/11/68	Typed memo and attached graph	Cost Breakdown for Gov't "Orange"
00003757- 00003758						Duplicate of #00003755-00003756
00003793	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	9/3/65	Typed memo	Gov't Butyl D/T Mixture

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004058- 00004060				10/8/65	Handwritten figures	245-T Acid 84,000# STD
00004061- 00004063						Duplicate of #00004058-00004060
00004067	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	9/3/65	Typed memo	Gov't Butyl D/T Mixture
00004070- 00004074				7/13/65	Handwritten notes	U.S. Gov't Invitation to Bid
00004222- 00004227				January 1968	Typed and handwritten form	Monthly Inventory Report
00004228- 00004246				1/68	Handwritten information	Formulation Processes

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004507	S.B. Greenbaum	R. Chonoles		2/28/69	Typed memo	Preparation of Isopropyl Esters
00004508	S.B. Greenbaum	F. G. Steward	R. Chonoles	2/27/69	Typed memo	Method for Prepara tion of Isopropyl Esters
00004509	S.B. Greenbaum	F.G. Steward		2/28/69	Typed memo	Addendum to #00004508
00004511- 00004518						Duplicate of #00000404-00000411
00004519- 00004520	F. Gordon Steward	R.A. Guidi	F.R. Kennedy	8/4/66	Typed memo	Butyl-D Ester Plant
00004561- 00004562						Duplicate of #00004519-00004520

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004563	F.G. Steward			8/3/66	Handwritten diagram	Butyl-D Ester Plant 5.4 mm lb/yr
00004620	C.L. Troph	All Field Sales Personnel All Tech Servicemen	R.L. Dezember C.J. Galley P.B. Grosscup R.A. Guidi M. Hochberg J.A. Ignatoski G.L. Pratt J.O. King R.L. Urbanowski	2/6/69	Typed memo	Dacamine Wax Bar
00004621- 00004624	M. Rosenfeld	F.G. Steward	R. Chonoles T.J. Neidlinger G.L. Pratt	3/4/69	Typed memo with hand- written attachments	2,4-D Bars
00004625	Gordon	Mike		8/16/68	Handwritten memo	Amine for Dacamines
00004626	Supplier	F. Gordon Steward	Supplier's Representatives	8/12/68	Typed letter	Sample of Amine for Dacamines

10001

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004629	F.G. Steward			5/21/68	Handwritten inventory	Inventory of Special Dacamine Formulations
00004631	F. Gordon Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld T.J. Neidlinger	8/8/68	Typed memo	Dacamine Bars
00004632- 00004633	F.G. Steward			8/8/68	Handwritten inventory	Inventory of Special Dacamine Formulations
00004635	F. Gordon Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld	8/9/68	Typed memo	Dacamine Bar Field Tests
00004636						Duplicate of #00004632
00004637	F. Gordon Steward	Supplier	F.R. Kennedy M. Rosenfeld R.L. Urbanowski	8/9/68	Typed letter	Sample of Amine for Dacamines
00004638	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	6/20/68	Handwritten memo	Dacamine Bars

82001
10058

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004642	F.G. Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld	6/24/68	Typed memo	Dacamine Bars
00004643- 00004644	F.G. Steward			6/24/68	Handwritten inventory	Inventory of Special Dacamine Formulations
00004646	F.G. Steward	R.L. Urbanowski	F.R. Kennedy F.J. Neidlinger M. Rosenfeld	4/26/68	Typed memo	Dacamine Bars
00004648	M. Rosenfeld	F.G. Steward	F.R. Kennedy F.L. Urbanowski	1/3/68	Typed memo	Dacamine Bars
00004649	Gordon	Mike		3/27/68	Handwritten memo	Amine Sample for Dacamines
00004650- 00004651	F. Gordon Steward	F.R. Kennedy	E. Bak M. Rosenfeld	3/27/68	Handwritten memo	Amine for Dacamines
00004652	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy	4/4/68	Typed memo	Amine for Dacamines
00004653	R.A. Guidi	F.R. Kennedy R.A. Remerscheid	L.L. Henson	2/14/68	Typed memo	Dacamine
00004654	L.L. Henson	R.A. Guidi		2/28/68	Typed memo	Amine for Dacamines

0000

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00004655	Dr. E.L. Chandler	Dr. E.F. Woodward	C.H. Lighthouse H.A. Batley J.S. Cort R.A. Guidi H.E. Everson F.R. Kennedy	3/27/68	Typed memo	Dacamine Formulations
00004656	R.A. Guidi	M. Rosenfeld	E.G. Weierich F.R. Kennedy R.L. Urbanowski		Typed memo	Dacamine Emulsifiers
00005079- 00005081	Paul H. Schuldt Boyce Thompson Inst. Yonkers, N.Y.	L. Gordon Utter	Dr. Chandler	11/21/60	Typed letter & attached chart	Volatility Tests on Esters
00005083	J.R. Clark	R.A. Guidi	F.R. Kennedy	11/3/60	Typed memo	D&T Esters from Supplier's Alcohols
00005085	R.A. Guidi	E.G. Osborne	T.O. Evrard J.O. King	12/21/60	Typed memo	4# Lo-V Fomulation for use with Liquid Fertilizer
00005086	J.R. Clark	F.R. Kennedy	R.A. Guidi T.O. Evrard	12/19/60	Typed memo	4# 2EH-D for Liquid Fertilizer

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00005190- 00005192	J.R. Clark	R.A. Guidi	F.R. Kennedy CF File #147	11/2/60	Typed memo	Precipitates in Low Volatile Ester Formulations
00005193	J.R. Clark	R.A. Guidi	F.R. Kennedy CF File #146	11/19/60	Typed memo	Precipitates in Ester Formulations
00005194	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	12/12/67	Handwritten memo	Amine for Dacamines
00005195	M. Rosenfeld	F.G. Steward	F.R. Kennedy	11/6/67	Typed memo	Amine for Dacamines
00005196	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/10/67	Typed memo	Amine for Dacamines
00005262	J.R. Clark	M. Rosenfeld	J.A. Borrer R.A. Guidi F.R. Kennedy	10/13/61	Typed memo	3.34# Isopropyl-T
00005281- 00005282	J.R. Clark	M. Rosenfeld	R.A. Guidi F.R. Kennedy CF #153	3/10/61	Typed memo	Invert Emulsions of 2EH-T
00005416- 00005417	A.C.	J. Burton	J. Ginos C. Feinberg R. Guidi J. Browne	11/5/57	Handwritten memo	Esterification of Isopropyl-D Esters

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00005457- 00005458	J.C. Kelly	R.A. Guidi	J.O. King H.S. Weiner	2/16/61	Typed memo and attached memos	Revised Requirements of 2,4-D
00005540	F.R. Kennedy	J.S. Cort, Jr.		6/24/64	Typed memo	Dry 2,4-D Appropriation
00005549	F.R. Kennedy	V.C. Cayton	J.S. Cort, Jr.	5/6/64	Typed memo	Drying D-Acid
00005550	V.C. Cayton	F.R. Kennedy	J.S. Cort, Jr.	5/4/64	Typed memo	Drying Facilities for D Acid
00005568	V.C. Cayton	F.R. Kennedy		5/19/64	Typed memo	Drying D-Acid
00005577	R.F. Lindemann	F.R. Kennedy		3/25/63	Typed memo	Availability of Dry Acid for Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00005578						Duplicate of #00005577
00005579						Duplicate of #00005577
00005580						Duplicate of #00005577
00005581						Duplicate of #00005577
00005724- 00005726				10/7/57	Handwritten notes	2,4-D Costs
00006463	R.A. Remerscheid	F.R. Kennedy	M. Rosenfeld	7/29/64	Typed memo	Sludge - 1964 Ester Formulations

10083

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007585	F.G. Steward	G.L. Pratt	R. Chonoles R.L. Dezember R.A. Remerscheid	4/22/69	Typed memo	Dacamine 4D Batch Numbers DM-108 and DM-122
00007593	F. Gordon Steward	R. Chonoles	G.M. Salvatto	10/29/68	Handwritten memo	Dacamine-4 Complaint
00007594- 00007596	G.M. Salvatto	F.G. Steward		10/16/68	Handwritten memo	Sediment Formation in Dacamine-4D
00007597	Gordon	Mike		7/23/68	Handwritten memo	Dacamine Complaint
00007601						Duplicate of #00007597
00007613	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	1/17/69	Typed memo	Dacamine - 4D Complaint

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007641	F.G. Steward	F.R. Kennedy	R.A. Guidi R.A. Remerscheid	7/25/68	Typed memo	Dacamine Complaint
00007744	F.R. Kennedy	B.A. Sprayberry	R.A. Guidi H.A. Branson	6/9/67	Typed memo	Dacamine Complaint
00007772	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	11/2/67	Typed memo	Dacamine Complaint
00007969- 00007970						Duplicate of #00000149-00000150
00007971- 00007972						Duplicate of #00000149-00000150
00007975						Duplicate of #00000151
00007976						Duplicate of #00000152
00007982						Duplicate of #00000154

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007984	F.R. Kennedy	R.A. Guidi		11/21/67	Typed memo	Emulsifier for Singleshot
00007985						Duplicate of #00000176
00007988						Duplicate of #00000175
00007989						Duplicate of #00000178
00007991						Duplicate of #00000166
00007992	R.A. Guidi	F.R. Kennedy	J.O. King	1/8/68	Typed memo	Emulsifier for Singleshot
00007994	E.L. Chandler	J.O. King	J.S. Cort, Jr. R.A. Guidi F.R. Kennedy H.A. Branson J.L. Freer	12/5/67	Typed memo	Emulsifier for Singleshot

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00007995	J.O. King	R.A. Guidi	E.L. Chandler F.R. Kennedy	11/29/67	Typed memo	Singleshot
00007996- 00007997						Duplicate of #00000164-00000165
00007998						Duplicate of #00000168
00007999	Gordon	Mike		6/29/67	Handwritten memo	Singleshot
00008000		Gordon		6/28/67	Handwritten memo	Singleshot
00008001						Duplicate of #00000169
00008002- 00008003						Duplicate of #00000170-00000171

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00008014	R.A. Guidi	F.R. Kennedy	J.O. King	1/25/68	Typed memo	Singleshot
00008015	F.R. Kennedy	R.A. Guidi	E.L. Chandler M. Rosenfeld	2/19/68	Typed memo	Singleshot Labels
00008017	Mike	M.R.			Handwritten notes	Singleshot Labels
00008024- 00008025						Duplicate of #00000180-00000181
00008026- 00008027						Duplicate of #00000164-00000165
00008029						Duplicate of #00000166
00008030						Duplicate of #00000167

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00008031						Duplicate of #00000167
00008032						Duplicate of #00000168
00009302	F.R. Kennedy	C. Feinberg		9/24/63	Typed memo	Competitive Oil- Soluble Amine-D Formulations
00009303	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy	9/12/63	Typed memo	Competitive Oil- Soluble Amine-D Formulations
00009514						Duplicate of #00000175
00009664- 00009668	W.J. Esselstyn	J. Burton	L.J. Polite, Jr.	5/29/59	Typed memo and attached Technical Information Bulletin	Technical Information Bulletin Diamond Organic Products

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00009896	G. Claudio	F.R. Kennedy	A.F. Marks	10/23/74	Typed memo	2,4-D Acid for Dacamines
00009899	G. Claudio	A.F. Marks	F.R. Kennedy G.D. Munger	7/29/74	Typed memo	Newark 2,4-D Acid
00009907	C.D. Hildebrecht	P.H. Schuldt	R.S. DePablo C.L. Dunning R.L. Urbanowski	2/11/65	Typed memo	Vapor Pressures of 2,4-D Products.
00009930- 00009937	V.C. Cayton	F.W. Jarvis		3/19/62	Typed memo & attached report	Dacamines
00009951	C.L. Dunning	E.L. Chandler	D.E. Stallard	12/27/61	Typed memo	Amine for Dacamines

10070

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00009954	D.E. Stallard	C.L. Dunning	H.E. Everson J.O. King P.H. Schuldt L.G. Utter	7/19/61	Typed memo	Meeting with the Chlorinated Products Division - July 18, 1961
00009986	J.L. Hazen	R.W. Fraley	J.A. Ignatowski A.F. Marks D. Spranklin D. Swallow	11/19/79	Typed memo	Formulation of Fallek-Lankro Technical 2,4-D Acid
00009988- 00010006					Typed memo & attached tables and graphs	Study of Method for Analysis of Diamond Shamrock 2,4-D Formulated Products
00010010- 00010012						Duplicate of #00005079-00005081
00010014	J.R. Clark	L.G. Utter	R.A. Guidi F.R. Kennedy	10/26/60	Typed memo	Volatility Data

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00010042	A.L. Galloway	R.A. Remerscheid	J.A. Borrer G.F. Ham E.L. Chandler L.G. Utter H.S. Weiner	3/4/60	Typed memo	PG Granules
00010179	A. Casatelli C. Feinberg	L.G. Utter	J. Burton	8/1/57	Typed memo	Possible New Amine Formulations
00010302- 00010304	F.G. Steward			7/69	Typed memo & attached chart	Operating Comments Plant Technical
00010629	P.L. Orwick	H.C. Staton	L.E. Limpel A.F. Marks B.L. Sogor J.T. Waddington Central Files	10/9/78	Typed memo	Assay of 2,4-D
00010632- 00010633	G. Claudio	F.R. Kennedy	H.H. Harris J.A. Ignatoski A.F. Marks G.D. Munger	11/20/73	Typed memo	Amine 2D/2T
00010634	A.F. Marks	H.H. Harris	F.R. Kennedy G.D. Munger	11/20/73	Typed memo	Amine 2D/2T Confiden- tial Statement

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00010646	A.F. Marks	F.R. Kennedy	G. Claudio G.D. Munger J.B. McCabe	10/18/72	Typed memo	Amine 2D/2T State of Pennsylvania Bid
00010681	R.L. Urbanowski	E.L. Chandler	J.S. Cort, Jr. R.A. Guidi F.R. Kennedy J.O. King R.A. Remerscheid B.A. Sprayberry M.F. Wilkerson	12/28/65	Typed memo	Dacamine Labels
00010728	R.J. Marrese	R. Davis	P.H. Schuldt D.M. Warburton J.O. King	12/18/62	Typed memo	Dacamines and Potential Patentability
00010737	A.L. Galloway	R. Davis	P.H. Schuldt D.M. Warburton	10/10/62	Typed memo	Dacamines-Dacamine Patentability
00010790- 00010791	P.H. Schuldt	L.G. Utter	E.L. Chandler	1/13/61	Typed memo & attached table	Relative Volatility of 2,4-D and 2,4,5-T Esters

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00010793- 00010795						Duplicate of #00005079-00005081
00010805	L.P. Scoville	R.P. Mueller	C.C. Brumbaugh T.F. Holder W.R. Taylor J.A. Wilson	8/5/60	Typed memo	Proposed License Agreement for Amines
00010808	E.L. Chandler	L.P. Scoville		8/4/60	Typed memo	License Agreement for Amines
00010810- 00010821	R.P. Mueller	C.C. Brumbaugh T.F. Holder L.P. Scoville W.R. Taylor J.A. Wilson		8/3/60	Typed memo & attached agreement form	Proposed License Agreement for Amines
00010853- 00010854	L.G. Utter	J.E. McCalob	T.F. Holder E.L. Chandler E.G. Osborne	12/17/59	Typed letter	2,4-D and 2,4,5-T

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0010861	J.H. Dereich	D.M. Warburton	T.F. Holder	10/27/58	Typed memo	Amine Esters and Salt of 2,4-D
0010910	A.L. Galloway	J. Burton	D.J. Porter L.G. Utter	5/26/58	Typed memo	Experimental Herbi- cide Formulations
0010912- 0010913	A.L. Galloway	D.J. Porter	J. Burton C. Feinberg J.O. King L.J. Polite, Jr. L.G. Utter	5/9/58	Typed memo	Herbicide Conference in Newark
00010915- 00010917	A.L. Galloway			4/29/58	Typed memo (3 copies)	Volatility Screening Tests
00010931	G.F. Ham	L.J. Polite, Jr.	J. Burton G. Feinberg A.L. Galloway D.J. Porter M.J. Skeeters R.C. Sutter L.G. Utter D.M. Warburton	2/14/58	Typed memo	Oil-Soluble Amine Salts of 2,4-D and 2,4,5-T

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00010946

J. Burton

Mr. Warburton

C. Feinberg
L.J. Polite
D.J. Porter
M.J. Skeeters
R.C. Sutter

2/3/58

Typed
memoOil Soluble Amine
Salts of 2,4-D and
2,4,5-T00010947-
00010948A.G.
CasatelliD.J.
WarburtonJ. Burton
C. Feinberg
L.J. Polite
D.J. Porter
R.C. Sutter

2/3/58

Typed
memoOil Soluble Amine
Salts of 2,4-D &
2,4,5-T Acids

00010971

Typed
reportBlack Leaf Research &
Development Progress
Report No. 3
11/1/57 - 11/30/57

00010974

D.J. Porter

J. Burton

A.L.
Galloway
L.G. Utter

10/16/57

Typed
memo

Amine Salts

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00011147- 00011149	G.H. Burris	J. Burton	J.J. Lukes D.J. Porter M. Rosenfeld J.R. Trocki Lab File CF File	6/15/55	Typed memo	Formulation of Amine Salt Concentrate
00011150- 00011152	G.H. Burris	J. Burton	A. Floresta J.J. Lukes D.J. Porter J.R. Trocki Lab File CF File	6/15/55	Typed memo	Preparation of Amine Salt Concentrate of 2,4,5-T Acid
00011816- 00011820	R.L. Urbanowski	L.S. Weiner	J.S. Cort V.C. Cayton	1/20/65	Typed memo	Diamond Pesticide Granules
00011821	R.L. Urbanowski	E.L. Chandler	V.C. Cayton J.O. King	12/16/64	Typed memo	Dacthal, 2,4-D

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00012790- 00012802	C.L. Troph	W.H. Bricker	C. Baldanza R. Guidi J. King J. McCabe	7/25/69	Typed memo with graphs	Phenoxy Herbicides- Purchasing Technicals
00012862- 00012863				8/20/64	Typed notes	Appropriation Re- quest for Dry 2,4-D Facilities at Newark
00012874						Duplicate of #00010931
00012875	L.J. Polite	J.J. Burton	R.J. Orlik D.J. Porter R.C. Sutter C.L. Troph L.G. Utter D.M. Warburton	2/13/58	Typed memo	Oil Soluble Amine Salts
00012876						Duplicate of #00010946
00012877- 00012878						Duplicate of #00010947-00010948

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00013067					Handwritten notes	
00013203	F.R. Kennedy	R.A. Guidi		7/18/67	Typed chart	Yearly Sales by Product-- 1960 through 1967
00013210- 00013211						Duplicate of #00004519-00004520
00013212						Duplicate of #00004563
00013650- 00013655	F.G. Steward			11/4/66	Typed memo (2 copies)	Operating Instruc- tions 2# and 4# Dacamine-D
00013656- 00013670						Duplicates of #00013650-00013655

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00013722- 00013724						Duplicate of #00013656-00013658
00013732- 00013734	F.G. Steward			12/17/65	Typed memo	Preliminary Operating Instructions 2# and 4# Dacamine-D
00013965	A. Casatelli			9/15/58	Handwritten graph	Tech Iso-T and Solvent Re-melt Temperatures
00014001- 00014002						Duplicate of #00004519-00004520
00014003						Duplicate of #00004563
00014359- 00014362					Typed memo	Newark Product Control Test Procedures-Dacamines
00014363- 00014366						Duplicate of #00014359-00014362

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
000014464					Typed memo	Alcohols (Section IV)
00014489						Duplicate of #00014464
00014490						Duplicate of #00014464
00014626					Blank form (typed)	Amine Batch Record (attached to #00014621-00014622)
00014678- 00014680	C.L. Troph	M.C. Heisele		11/15/72	Typed memo	2,4-D Process
00014814	R.A. Guidi	R.J. Marrese	P.H. Schuldt J.O. King	10/9/62	Typed memo	Dacamine Formulations - Patent Rights
00014815	Supplier of Amine Sample	Ray Guidi	(bcc) J.O. King	8/10/62	Typed letter	Sample of Amine for Dacamines
00014816	R.A. Guidi	RFL MR			Handwritten note	Re: Attached Correspondence (#00014817-00014823) and 10/9/62 Meeting

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014817	R.J. Marrese	R.A. Guidi	P.H. Schuldt J.O. King	10/5/62	Typed memo	Attached Correspondence Re: Patent Rights in Dacamine D & T Formulations
00014818	R.J. Marrese	Roy Davis	P.H. Schuldt D.M. Warburton J.O. King	10/5/62	Typed memo	Dacamines
00014819	Roy Davis	R.J. Marrese	P.H. Schuldt D.M. Warburton	10/4/62	Typed memo	Dacamines
00014820	R.J. Marrese	Roy Davis	D.M. Warburton P.H. Schuldt	10/3/62	Typed memo	Patent Position With the Dacamines
00014821	R.J. Marrese	D.M. Warburton	Dr. Paul Schuldt J.O. King	10/2/62	Typed memo	Cover to Attached Report (#00014822-00014823)
00014822- 00014823	R.J. Marrese	FILE	E.L. Chandler J.O. King	9/28/62	Typed memo	Mtg. at Research to Discuss DACAMINE Chemistry (9/25/62)

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014824- 00014826	Roy Davis	C.L. Troph	W.H. Bricker J.O. King G.L. Pratt	6/2/69	Typed memo	Licenses for Amines
00014827	GLP	Mike				Routing Slip
00014828	R. Chonoles	Supplier of Amines	R.A. Guidi F.G. Steward	4/15/69	Typed memo	Amine for Dacamines
00014829	C.L. Troph	Roy Davis	G.L. Pratt	4/16/69	Typed memo	Patents re Amines
00014830	M. Rosenfeld	F.G. Steward	F.R. Kennedy J.A. Ignatowski	10/2/69	Typed memo	Dacamine Repackaging
00014831- 00014838	Supplier of Chemical Products				Printed brochure	Supplier's Products
00014839	Supplier of Amines				Printed ad	Amines
00014840	M. Rosenfeld	F.G. Steward	F.R. Kennedy G.L. Pratt J.P. McCabe	9/17/69	Typed memo	Special Dacamine - 1D/1T

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014841- 00014842	J. Synek	A.L. Galloway	R.A. Guidi M. Hochberg J.A. Ignatowski J.O. King P.H. Schuldt	3/13/69	Typed memo & attached cost comparison	Dacamine 4D
00014843	F.G. Steward	G.L. Pratt	R. Chonoles M. Rosenfeld	3/14/69	Typed memo	Amine for Dacamines
00014844	G.L. Pratt	Supplier of Amines	(bcc) R.A. Guidi R. Chonoles	4/7/69	Typed letter	Lab Evaluation of Amines
00014845	G.L. Pratt	R. Chonoles	R.A. Guidi	4/3/69	Typed memo	DACAMINE Report, F.G. Steward to G.L. Pratt, Dated 3/3/69
00014846					Handwritten figures	
00014847					Handwritten calculations	Break-Even Point
00014848- 00014849				1968	Typed summary	Summary of All 1968 Dacamine 4D Complaints
00014850- 00014863					Typed summary	Complaints & Remarks Re: Dacamine & Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014864				10/8/69	Typed tentative specification	DACAMINE Emulsifiable Concentrate
00014865						Duplicate of #00014864
00014866- 00014867						Duplicate of #00003251-00003252
00014868- 00014871						Duplicate of #00003253-00003256
00014872- 00014873						Duplicate of #00003251-00003252
00014874- 00014877						Duplicate of #00003253-00003256
00014878	Al DiDario	R.L. Urbanowski	E.L. Chandler W.A. Cunningham E.G. Osborne	7/6/68	Typed memo	Field Testing of DACAMINE Formulations
00014879	F.G. Steward	R.L. Urbanowski	F.R. Kennedy M. Rosenfeld	4/3/68	Typed memo	Dacamine Field Testing

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014880	F.G. Steward	Supplier of Amines	F.R. Kennedy M. Rosenfeld R.L. Urbanowski	4/3/68	Typed memo	Amine for Dacamines
00014881	F. Gordon Steward	Supplier of Amines	F.R. Kennedy M. Rosenfeld R.L. Urbanowski	4/3/68	Typed letter	Evaluation of Amine for Dacamines
00014882						Duplicate of #00004655
00014883	F.G. Steward	R.L. Urbanowski	F.R. Kennedy A. DiDario M. Rosenfeld	4/26/68	Typed memo	Dacamines for Field Testing
00014884	Joseph Synek	G.L. Pratt	R. Chonoles A.L. Galloway R.A. Guidi M. Hochberg H.C. Klein M. Rosenfeld P.H. Schuldt	1/14/69	Typed memo	Dacamine Improvement Program
00014885	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	3/26/69	Typed memo	Amine for Dacamines
00014886- 00014887	Supplier of Amines	Geoffrey Pratt	Lou Henson	1/17/69	Typed letter	Amine for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014888- 00014898	E.A. Wainio	G.L. Pratt	M. Rosenfeld J.O. King R.A. Guidi	1/22/69	Typed memo & attached chemical abstracts	Literature Search- Proposed New Product
00014899- 00014900	G.L. Pratt	FILE	M. Hochberg R. Chonoles F.G. Steward J. Synek J.A. Ignatowski L.L. Henson	1/29/69	Typed memo	Visit by Representa- tive of Amine Supplier
00014901- 00014906	G.L. Pratt	J.C. Kelly	R.A. Guidi R.L. Urbanowski Cleveland File Concord File	11/29/66	Typed memo & attached telex, DACAMINE label, salt content	DACAMINE 2D/2T for Greece
00014907- 00014932	Supplier of Amines	G.L. Pratt			Typed letter & attachments	New Price Schedule for Amines
00014933- 00014934	J.A. Ignatoski	E.L. Chandler	G.L. Pratt R.L. Urbanowski	10/10/68	Typed memo	DACAMINE Formulations
00014935	J.A. Ignatoski	E.L. Chandler	J.O. King R.L. Urbanowski	8/6/68	Typed memo	DACAMINE Formulation

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014936	F.R. Kennedy	E.L. Chandler	R.A. Guidi H.O. Scott R.A. Remerscheid	11/28/67	Typed memo	DACAMINE Labels
00014937	E.L. Chandler	F.R. Kennedy	R.A. Guidi H.O. Scott R.A. Remerscheid G.L. Pratt	12/1/67	Typed memo	DACAMINE Labels
00014938	G.L. Pratt	F.G. Steward	R.A. Guidi R.L. Urbanowski J.O. King E.L. Chandler F.R. Kennedy	11/27/67	Typed memo	Specification for DACAMINE
00014939					Business card	Name of Representa- tive of Amine Supplier
00014940	G.L. Pratt	F.G. Steward	M. Hochberg R.A. Guidi H.C. Klein R. Chonoles M. Rosenfeld J. Synek P.H. Schuldt	1/13/69	Typed memo	DACAMINE Improvement Program
00014941- 00014943	J. Synek	P.H. Schuldt		1/2/69	Typed memo	Dacamine 4D Emulsifiable Concentrate

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014944- 00014950	A.L. Galloway			1/2/69	Typed memo	Confidential Specs
00014951- 00014955	G.L. Pratt	C.T. Baldanza E.L. Chandler J.W. Daniel R.L. Dezimmer P.B. Grosscup R.A. Guidi M. Hochberg J.A. Ignatowski J.O. King T.J. Neidlinger P.H. Schuldt C.L. Troph R.L. Urbanowski M.F. Wilkerson		12/11/68	Typed memo	DACAMINE REVIEW Research & Technical Service Meeting 12/12/68
00014956- 00014959	M. Rosenfeld	F.G. Steward	R. Chonoles R.A. Guidi G.L. Pratt	12/6/68	Typed memo	Dacamine History
00014960					Handwrittwn calculations	1969 Sales Forecast
00014961	G.L. Pratt	H.C. Klein	M. Hochberg M.F. Wilkerson R.A. Guidi R. Chonoles	12/9/68	Typed memo	DACAMINE Profitability

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0014962	J.C. Kelly	R.A. Remerscheid	H.A. Branson J.O. King R.A. Remerscheid	11/12/68	Typed memo	Dacamine Products in Warehouse
0014963	M. Rosenfeld	F.G. Steward	R. Chonoles J.A. Ignatowski G.L. Pratt	9/30/68	Typed memo	Dacamine-2D
00014964	R.R. Irani	J.L. Fordham		11/7/68	Typed memo	Dacthal and New Products
00014965	J.O. King	G.L. Pratt		12/9/68	Typed memo	Proposed New 2,4-D Product
00014966						Duplicate of #00001747
00014967	G.L. Pratt	Betty Waines	Rosenfeld J.O. King R.A. Guidi	12/27/68	Typed memo	Literature Search re Proposed New Product
00014968					Handwritten notes	Amine for Dacamines
00014969- 00014970	R.A. Guidi	M.F. Wilkerson	J.O. King J.C. Kelly F.R. Kennedy	2/24/66	Typed memo	Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014971	P.N. Lutz	John M. Sanders	C.L. Dunning R.L. Urbanowski	6/22/66	Typed memo	Quality Control on Dacamine
00014972- 00014973						Duplicate of #00014933-00014934
00014974- 00014981	R. Chonoles	H.C. Klein	R.A. Guidi G.L. Pratt F.G. Steward	11/8/68	Typed memo & attachments	4# Dacamine-D
00014982- 00014983	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi R.A. Remerscheid	5/24/66	Typed memo	Off-Grade Dacamines
00014984	R. Chonoles	H.C. Klein	R.A. Guidi F.R. Kennedy	12/9/68	Typed memo	Dacamine
00014985- 00014987	G.L. Pratt	R.A. Guidi	M. Hochberg R.L. Urbanowski C.L. Troph J.O. King E.L. Chandler M.F. Wilkerson J.A. Ignatoski R. Chonoles M. Rosenfeld F.G. Steward S. Greenbaum H. Klein F.R. Kennedy	11/26/68	Typed memo	Newark Plant, Harrison Plant Visit Nov. 6 & 7, 1968, re Dacamine and Other Products

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014988- 00014990					Handwritten notes	Label Revisions Dacamine & Dacamine 4D
00014991	M. Rosenfeld	F.G. Steward	R. Chonoles - G.L. Pratt	1/17/69	Typed memo	Dacamine Samples for Field Tests
00014992	J.A. Ignatowski	J.O. King	E.L. Chandler R.A. Guidi R.A. Urbanowski G.L. Pratt	8/21/68	Typed memo	Dacamine 4D Formulation
00014993						Duplicate of #00000154
00014994	M. Rosenfeld	F.G. Steward	R. Chonoles J.A. Ignatoski G.L. Pratt	8/27/69	Typed memo	Dacamine Repackaging
00014995	Supplier of Amines			9/17/69	Typed price list	Prices of Amines
00014996	Supplier of Amines				Printed ad	Amines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00014998	R. Chonoles	H.C. Klein	R.A. Guidi F.G. Steward	4/17/69	Typed memo	Amine for Dacamines
00014999						Duplicate of #00014828
00015000	R. Chonoles	R.A. Guidi		3/27/69	Typed memo	Amine for Dacamines
00015001	G.L. Pratt	F.G. Steward	R.A. Guidi J.A. Ignatoski	4/7/69	Typed memo	Amine for Dacamines
00015002	Gordon	Bob		4/14/69	Handwritten memo	Dacamine Patent
00015003	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	3/26/69	Typed memo	Amine for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015014	T.L. Curry	R.L. Urbanowski	E.L. Chandler H.A. Branson R.J. Orlik	1/3/69	Typed memo	Dacamine Strength
0015015	H.A. Branson	T.L. Curry	R.J. Orlik R.L. Dezember	5/9/69	Typed memo	Dacamine Strength
0015016	T.L. Curry	H.A. Branson		6/13/69	Typed memo	Dacamine Requirements
0015017	F.G. Steward	G.L. Pratt	R. Chonoles R.A. Guidi M. Rosenfeld	7/16/69	Typed memo	Dacamine & Dacamine 4-D Formulations
0015018- 0015019						Duplicate of #00014933-00014934
0015020	J.A. Ignatoski	E.L. Chandler	J.O. King R.L. Urbanowski	8/6/68	Typed memo	Dacamine Formulations
0015021- 0015023	M.R.			1/69	Handwritten figures	Specs of Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015004- 00015005	U.S. Patent Office				Patent reprint	Plant Hormone Herbicides
00015006- 00015009	U.S. Patent Office				Patent reprint	Plant Hormone Herbicides
00015010						Duplicate of #00014840
00015011						Duplicate of #00014994
00015012	J.A. Ignatoski	Milt Rosenfeld	H.A. Branson T.L. Curry R.J. Orlik	7/24/69	Typed memo	Dacamine Repackaging
00015013	J.A. Ignatoski	H.A. Branson	T.L. Curry R.J. Orlik	7/7/69	Typed memo	Dacamine Repackaging

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)
0015014	T.L. Curry	R.L. Urbanowski	E.L. Chandler H.A. Branson R.J. Orlik
0015015	H.A. Branson	T.L. Curry	R.J. Orlik R.L. Dezember
0015016	T.L. Curry	H.A. Branson	
0015017	F.G. Steward	G.L. Pratt	R. Chonoles R.A. Guidi M. Rosenfeld
0015018- 0015019			
0015020	J.A. Ignatoski	E.L. Chandler	J.O. King R.L. Urbanowski
0015021- 0015023	M.R.		

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56001

DATE	TYPE DOCUMENT	SUBJECT
1/3/69	Typed memo	Dacamine Strength
5/9/69	Typed memo	Dacamine Strength
6/13/69	Typed memo	Dacamine Requirements
7/16/69	Typed memo	Dacamine & Dacamine 4-D Formulations
		Duplicate of #00014933-00014934
8/6/68	Typed memo	Dacamine Formulations
1/69	Handwritten figures	Specs of Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015024	Gordon	Bob	Mr. Rosenfeld	7/8/69	Handwritten memo	Dacamines
00015025						Duplicate of #00015000
00015026						Duplicate of #00014885
00015027	R. Chonoles	R.A. Guidi		3/20/69	Typed memo	Substandard Dacamine
00015028						Duplicate of #00000762
00015029						Duplicate of #00000763
00015030- 00015031						Duplicate of #00000764-00000765
00015032- 00015035						Duplicate of #00004621-00004624

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015036	R. Chonoles	R.A. Guidi		3/3/69	Typed memo	Dacamine Improvement Program
00015037- 00015041	F.G. Steward	G.L. Pratt	R. Chonoles R.A. Guidi M. Hochberg J.A. Ignatoski M. Rosenfeld G. Salvatto P.H. Schuldt J. Synek C.L. Troph	3/3/69	Typed memo	Dacamine Improvement Program
00015042						Duplicate of #00014845
00015043- 00015044	G.M. Salvatto	F.G. Steward	R. Chonoles G.L. Pratt M. Rosenfeld	3/3/69	Typed memo	Dacamine Quality
00015045- 00015047						Duplicate of #00015612-00015615 (p. 3 of 4-page memo missing)
00015048						Duplicate of #00004620
00015049						Duplicate of #00000767

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015050						Duplicate of #00014991
00015051- 00015056	Milt Rosenfeld	F. Gordon Steward	R. Chonoles	1/9/69	Handwritten memo	D-Acid Bars
00015058- 00015061						Duplicate of #00014956-00014959
00015062	Gordon	Bob		12/20/66	Handwritten memo	Dacamine Bars
00015063	Gordon	G.L. Pratt	R. Chonoles M. Rosenfeld	12/16/68	Handwritten memo	Amine for Dacamine
00015064						Duplicate of #00014961
00015065						Duplicate of #00014984
00015066	Milton Rosenfeld	Supplier of Solvent	R. Chonoles F.G. Steward	11/26/68	Typed letter	Request for Specs on Solvent
00015067- 00015069						Duplicate of #00014985-00014987

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015070	F.G. Steward	G.L. Pratt	R. Chonoles	11/8/68	Typed memo	Dacamine Complaint
00015071- 00015073						Duplicate of #00014974-00014976
00015074	G.L. Pratt			6/13/67	Typed specs	DACAMINE 4D
00015075- 00015076	T.J. Neidlinger	All Tech Service Reps All Regional Sales Managers All Salesmen R.L. Urbanowski Gordon Steward Milt Rosenfeld Robert Chonoles J.O. King		10/25/68	Typed memo	Dacamine Bar Research Program
00015077	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt	10/22/68	Typed memo	Dacamine Complaint
00015078	G.L. Pratt	F.G. Steward	R.A. Guidi J.A. Ignatoski	10/7/68	Typed memo	Dacamine Samples
00015079						Duplicate of #00014963

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015080- 00015082	F. Heisele	F. Gordon Steward	R. Chonoles E. Bak	9/26/68	Handwritten memo	Preparing Dacamine
00015083- 00015084	Frank Heisele	F. Gordon Steward	R. Chonoles E. Bak	9/26/68	Handwritten memo	Wet Dacamine 4D
00015085	R.L. Urbanowski	F.G. Steward	R.A. Guidi T.J. Neidlinger R. Chonoles	9/25/68	Typed memo	Dacamine Bars
00015086						Duplicate of #00000780
00015087	Gordon	Bob		9/19/68	Handwritten memo	Dacamine Raw Materials for Mexico
00015088						Duplicate of #00000781
00015089						Duplicate of #00004635

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015090						Duplicate of #00004631
00015091						Duplicate of #00007641
00015092	Illegible	Gene			Handwritten memo	'68 Requirements
00015093	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy J.C. Kelly	6/25/68	Typed memo	Dacamine & Dacamine 4D Requirements
00015094	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy	6/21/68	Typed memo	Dacamine & Dacamine 4D Requirements
00015095						Duplicate of #00004642
00015096	Gordon	Mike		5/29/68	Handwritten memo	Amine for Dacamines
00015097						Duplicate of #00014883

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015098						Duplicate of #00004646
00015099- 00015100	Gordon	Mike		4/18/68	Handwritten memo	Dacamine Samples For Field Tests
00015101						Duplicate of #00014883
00015102						Duplicate of #00014879
00015103						Duplicate of #00014881
00015104						Duplicate of #00014880
00015105						Duplicate of #00014880
00015106						Duplicate of #00014879

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015107	M. Rosenfeld	R. Leibling	F.R. Kennedy F.G. Steward	4/1/68	Typed memo	Emulsifier for Dacamines
00015108- 00015109	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/12/67	Typed memo	Amines for Dacamines
00015110	R.A. Guidi	F.R. Kennedy		10/20/67	Typed memo	Emulsifier for Dacamines
00015111- 00015112						Duplicate of #00001748-00001749
00015113	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	2/5/68	Handwritten memo	Amine/Acid Ratio for Dacamine
00015114	Milt Rosenfeld	F. Gordon Steward	F.R. Kennedy	1/16/68	Handwritten memo	Dacamine
00015115	Leo M. Heath			1/16/67	Handwritten lab analysis	Dacamine 2-D Prep. By M.R.
00015116						Duplicate of #00014937
00015117						Duplicate of #00015113

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015118						Duplicate of #00015114
00015119						Duplicate of #00015115
00015120						Duplicate of #00014937
00015121	R.L. Urbanowski	F.G. Steward	R.A. Guidi J.O. King T.J. Neidlinger F.R. Kennedy	3/21/68	Typed memo	Dacamine Bars
00015122	R.A. Remerscheid	J.C. Kelly	R.A. Guidi F.R. Kennedy J.O. King	3/13/68	Typed memo	Dacamine Formulations & 2,4-D Acid Requirements
00015123- 00015124	R.A. Remerscheid	F.R. Kennedy	R.A. Guidi	2/27/68	Typed memo & attached figures	Des Moines Require- ments - Dacamine & Dacamine 4D
00015125	R.A. Guidi	F.E. Woodward	E.L. Chandler C.H. Lighthipe H.A. Batley H.E. Everson F.R. Kennedy J.S. Cort, Jr.	3/8/68	Typed memo	Dacamine Formulations

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015126	F.E. Woodward	E.L. Chandler	C.H. Lighthipe J.S. Cort R.A. Guidi H.E. Everson F.R. Kennedy	3/4/68	Typed memo	Dacamine Formulations
00015127	F.R. Kennedy	R.A. Guidi		3/1/68	Typed memo	Field Testing- Dacamines
00015128	Gordon	Mike		2/29/68	Handwritten memo	Field Testing of Dacamines
00015129	Mike	FGS		2/26/68	Handwritten memo	Dacamine Field Testing
00015130	E.L. Chandler	C.H. Lighthipe		2/21/68	Typed memo	Dacamine Formulations
00015131	J.S. Cort, Jr.	C.H. Lighthipe	H.E. Everson E.L. Chandler F.R. Kennedy	2/13/68	Typed memo	Dacamine Formulations
00015132	Supplier of Emulsifier	Michael Kennedy	Eugene Bak	2/6/68	Typed letter	Emulsifier for Dacamine
00015133	Gordon	F.R. Kennedy	M. Rosenfeld	2/2/68	Handwritten memo	Dacamine Bars

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015134	M. Rosenfeld	F.G. Steward	R. Chonoles T.J. Neidlinger G.L. Pratt	1/17/68	Typed memo	Dacamine Bars
00015135						Duplicate of #00004648
00015137	F. Gordon Steward	M. Rosenfeld	F.R. Kennedy	12/20/67	Handwritten memo	Dacamine Compatibility with Diesel Fuel
00015138					Typed note	Cover to #s 00015139-00015141
00015139- 00015141				3/27/67	Typed notes	Excerpts From Lab Notebook re Dacamine Bars
00015142	F.R. Kennedy	R.A. Guidi		12/8/67	Typed memo	Dacamine Moisture Specification
00015143	F.R. Kennedy	F.G. Steward		12/1/67	Typed memo	Dacamine Bars

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015144						Duplicate of #00014938
00015145- 00015146	F. Gordon Steward	F.R. Kennedy	M. Rosenfeld	10/20/67	Handwritten memo	Dacamine-2D Amine/Acid Ratio
00015147	F.R. Kennedy	R.A. Remerscheid		11/14/67	Typed memo	IR Analysis of Dacamine
00015148	F.R. Kennedy	R.A. Guidi		11/10/67	Typed memo	Dacamine Bars
00015149- 00015150	Milt Rosenfeld	Dr. B. Sprayberry		4/5/67	Handwritten memo	Dacamine Bars
00015151- 00015154	R.A. Guidi	M. Rosenfeld		10/18/67	Typed memo & attached patent application	Dacamine Bar
00015155- 00015156	F.G. Steward	G.L. Pratt	F.R. Kennedy R.A. Remerscheid M. Rosenfeld	11/7/67	Typed memo & specifi- cation	Specification for Dacamine
00015157- 00015158						Duplicate of #00015145-00015146

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015159- 00015160	M. Rosenfeld	F. Gordon Steward	F.R. Kennedy	10/12/67	Typed memo	New Dacamine Formulation
00015161	M. Rosenfeld	F.G. Steward	F.R. Kennedy H.A. Branson	9/13/67	Typed memo	Special Dacamine Formulation
00015162- 00015163	M.C. Heisele	F.R. Kennedy	R.A. Guidi R.A. Remerscheid E. Bak F.G. Steward	8/31/67	Typed memo	4# Dacamine-D
00015164	M. Rosenfeld	F.G. Steward	F.R. Kennedy H.A. Branson	8/21/67	Typed memo	Special Dacamine- 4T Mixture
00015165	R.A. Guidi	F.R. Kennedy		7/5/67	Typed memo	Amines For Dacamine
00015166	F.G. Steward	L.L. Henson	F.R. Kennedy	5/22/67	Typed memo	Raw Material For Dacamines
00015167	R.A. Remerscheid	F.R. Kennedy		3/1/67	Typed memo	Dacamine Shipments
00015168	J.C. Kelly	F.R. Kennedy	R.A. Guidi J.O. King	2/28/67	Typed memo	Dacamine-D Shipments to Des Moines
00015169	F.R. Kennedy	J.C. Kelly	R.A. Guidi	2/24/67	Typed memo	Dacamine-D Shipments to Des Moines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015170	F.R. Kennedy	R.A. Remerscheid		2/21/67	Typed memo	Dacamine Tank Car Shipments
00015171	F.R. Kennedy	R.A. Guidi		2/17/67	Typed memo	1.4# Dacamine
00015172	F.R. Kennedy	J.C. Kelly	R.A. Guidi	2/14/67	Typed memo	1.4# Dacamine-D
00015173	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi R.A. Remerscheid	2/9/67	Typed memo	Cold Temperature Stability of Dacamines Shipped to Des Moines
00015174	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	2/2/67	Typed memo	Dacamine Compatibi- lity with Fertilizer
00015175	R.A. Guidi	W.H. Pierson	F.R. Kennedy R.A. Remerscheid J.O. King B.A. Sprayberry	10/24/66	Typed memo	Dacamine 4D with Fertilizer
00015176	F.G. Steward	F.R. Kennedy	R.A. Guidi M. Rosenfeld	1/31/67	Typed memo	Changes in Dacamine Formulations
00015177	F.G. Steward	F.R. Kennedy	R.A. Guidi E. Bak M. Rosenfeld	1/25/67	Typed memo	Emulsifiers For Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015178	M. Rosenfeld	F.G. Steward	R.A. Guidi F.R. Kennedy	1/25/67	Typed memo	Emulsifiers For Dacamines
00015179	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	1/25/67	Typed memo	Dacamines From Monsanto Acid
00015180	F.R. Kennedy	R.A. Guidi		1/16/67	Typed memo	Dacamine Samples
00015181	F.G. Steward	F.R. Kennedy	R.A. Guidi M. Rosenfeld	1/9/67	Typed memo	Changes in Dacamine Formulations
00015182	M. Rosenfeld	F.G. Steward	F.R. Kennedy H.A. Branson	1/5/67	Typed memo	Dacamines
00015184	F.G. Steward	L.L. Henson	F.R. Kennedy R.A. Guidi A.T. Hohnhold M. Rosenfeld	12/28/66	Typed memo	Raw Materials For Dacamines
00015185	Gordon	Mike		11/29/66	Handwritten memo	Solvents for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015186- 00015188	B.A. Sprayberry	F.R. Kennedy	M.F. Wilkerson R.A. Guidi E.L. Chandler Milt Rosenfeld	11/23/66	Typed memo	Solvents For Dacamines
00015189- 00015192	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	11/29/66	Typed memo	Dacamines
00015193	F.G. Steward	A.T. Hohnhold	F.R. Kennedy R.A. Guidi L.L. Henson M. Rosenfeld	11/29/66	Typed memo	Amine For Dacamines
00015194- 00015195	F.G. Steward	F.R. Kennedy	R.A. Guidi M. Rosenfeld	11/29/66	Typed memo	Changes in Dacamine Formulations
00015196	F.G. Steward	F.R. Kennedy	M. Rosenfeld	11/14/66	Typed memo	Amines For Dacamines
00015197	R.A. Guidi	F.R. Kennedy				Routing Slip to #00015198-00015199
00015198- 00015199	C.T. Baldanza	J.S. Cort, Jr.	R.A. Guidi M.F. Wilkerson	11/2/66	Typed memo	Dacamine Distribution Costs

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015200	F.R. Kennedy	R.A. Guidi	B.A. Sprayberry	10/31/66	Typed memo	Amines for Dacamines
00015201	M. Rosenfeld	F.G. Steward	F.R. Kennedy	10/26/66	Typed memo	Dacamine Fertilizer Mixture
00015202	F.G. Steward	E. Bak	F.R. Kennedy M. Rosenfeld	10/24/66	Typed memo	Dacamine Quality Control
00015203	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	10/13/66	Typed memo	Dacamine - Fertilizer Mixes
00015204	B.A. Sprayberry	F.R. Kennedy	R.A. Guidi T.L. Chandler	10/4/66	Typed memo	Dacamine/Silvex
00015205	B.A. Sprayberry	R.A. Remerscheid	F.R. Kennedy R.A. Guidi H.A. Branson E.L. Chandler J.O. King	9/30/66	Typed memo	Dacamine Fertilizer Mixture
00015206	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Remerscheid	9/27/66	Typed memo	Dacamine - Fertilizer Mixes
00015207	R.A. Remerscheid	H.A. Branson	R.A. Guidi F.R. Kennedy J.O. King	9/19/66	Typed memo	Dacamine - Fertilizer Mixes

CUMENT MBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
015208	H.A. Branson	R.A. Remerscheid	J.O. King	9/12/66	Typed memo	Dacamine-Fertilizer Mixes
015209	Indiana State Chemist, Dept. of Biochemistry, Agricultural Experiment Station, Lafayette, Ind.			9/9/66	Typed form	Herbicide Inspection Report for Dacamine
015210	R.A. Remerscheid	F.R. Kennedy				Routing Slip
015211- 015212				9/7/66	Typed forms	Ester Formulation (of 4# Dacamine)
015213	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	9/9/66	Typed memo	Dacamine-Fertilizer Mixes
0015214	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy	8/19/66	Typed memo	DACAMINE With Fertilizer
0015215	F.R. Kennedy	L.L. Henson		9/2/66	Typed memo	Solvent
0015216	F.R. Kennedy	R.A. Guidi		9/2/66	Typed memo	Glass Slides of Dacamine Formulation Shipment - 1961

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015217	R.A. Remerscheid	H.A. Branson	R.A. Guidi F.R. Kennedy	9/2/66	Typed memo	Dacamine-Fertilizer Mixes
00015218	L.L. Henson	F.R. Kennedy		8/31/66	Typed memo	Solvent for Dacamines
00015219	F.R. Kennedy	R.A. Guidi		8/31/66	Typed memo	Quality Control For Dacamine Formulations
00015220- 00015221	B.A. Sprayberry	R.A. Guidi	R.A. Remerscheid F.R. Kennedy J.O. King E.L. Chandler	7/29/66	Typed memo	Quality Control For Dacamine Formulations
00015222	R.A. Guidi	F.R. Kennedy R.A. Remerscheid		8/19/66	Typed memo	Quality Control For Dacamine Formulations
00015223	Supplier of Amine	F. Gordon Steward		8/17/66	Typed letter	Amine for Dacamines
00015224	F.G. Steward	F.R. Kennedy	M. Rosenfeld	8/17/66	Typed memo	Dacamine Formulation
00015225	F.G. Steward	B.A. Sprayberry	F.R. Kennedy	7/21/66	Typed memo	Amine for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015226- 00015227	Gordon	Mike		6/4/66	Handwritten memo	Amine For Dacamines
00015228	F.G. Steward	F.R. Kennedy	M. Rosenfeld	5/27/66	Typed memo	Emulsifier for Dacamines
00015229	M. Rosenfeld	F.G. Steward	F.R. Kennedy	5/27/66	Typed memo	Emulsifier for Dacamines
00015230						Duplicate of #00015228
00015231- 00015232						Duplicate of #00014982-00014983
00015233- 00015234	M. Rosenfeld	F.G. Steward	F.R. Kennedy	5/24/66	Typed memo	Emulsifiers for Dacamines
00015235	M. Rosenfeld	F.G. Steward	F.R. Kennedy	5/23/66	Typed memo	Amine for Dacamines
00015236	R.A. Remerscheid	T.J. Neidlinger	E.L. Chandler J.O. King H.A. Branson W.H. Pierson R.A. Guidi B.A. Sprayberry F.R. Kennedy M. Rosenfeld	5/20/66	Typed memo	Dacamine Complaint

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015237- 00015240	R.A. Guidi	F.R. Kennedy R.A. Remerscheid	J.L. Hoblit J.R. Trocki	5/18/66	Typed memo & attached Helpful Hints #24 & #34	Dacamine in Fertilizer Solutions and Proper Technique For Mixing a Dacamine Spray
00015241	F.G. Steward	B. Krienke	F.R. Kennedy	3/25/66	Typed memo	Analysis of Dacamine-HT
00015242	F.G. Steward	F.R. Kennedy	E. Bak	3/23/66	Typed memo	Dacamine Production - 1966
00015243	F.R. Kennedy	R.A. Guidi		3/18/66	Typed memo	Amines for Dacamine
00015244	J.C. Kelly	Gene Bak	F.R. Kennedy R.A. Guidi J.O. King	3/18/66	Typed memo	Dacamine Formulations
00015245						Duplicate of #00015243
00015246- 00015249	M. Rosenfeld	F.G. Steward	F.R. Kennedy	3/4/66	Typed memo	Amines for Dacamines
00015250	F.R. Kennedy	J.O. King	R.A. Guidi	3/11/66	Typed memo	Dacamine Formulations

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015251	R.A. Remerscheid	J.C. Kelly	R.A. Guidi F.R. Kennedy	3/11/66	Typed memo	2,4-D Dry Acid Requirements
00015252	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy M. Rosenfeld	3/9/66	Typed memo	Dacamine and Dacamine 4D Formulation
00015253	Gordon	Mike		3/8/66	Handwritten memo	Solvent
00015254- 00015255	Mike	Gordon		3/8/66	Handwritten memo (2 copies)	Solvent Sample
00015256	R.A. Guidi	R.A. Remerscheid	F.R. Kennedy M. Rosenfeld	1/27/66	Typed memo	Solvent
00015257	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	1/31/66	Typed memo	Solvent for Dacamines
00015258	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	3/3/66	Typed memo	Solvent for Dacamines
00015259- 00015260	B.A. Sprayberry	Supplier of Solvent	M.F. Wilkerson R.A. Guidi R.A. Remerscheid	2/22/66	Typed letter & attached specs	Solvent Sample

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015261- 0015262	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy M. Rosenfeld	3/3/66	Typed memo	Dacamine and Dacamine 4D Formulation
0015263					Typed chart	Dacamine Sample Treatments
0015264- 0015265	R.A. Remerscheid	R.A. Guidi	F.R. Kennedy	3/2/66	Typed memo & attached recap sheet	Dacamine and Dacamine 4D Formulation
0015266	R.A. Guidi	J.O. King	F.R. Kennedy R.A. Remerscheid B.A. Sprayberry	2/25/66	Typed memo	Dacamine Emulsifiers
0015267	J.O. King	R.A. Guidi	R.A. Remerscheid B.A. Sprayberry F.R. Kennedy	2/23/66	Typed memo	Dacamine Emulsifiers
0015268	M. Rosenfeld	F.G. Steward	F.R. Kennedy	2/24/66	Typed memo	Dacamine Formulations
0015269	R.A. Guidi	F.R. Kennedy			Typed note	Jobs
0015270- 0015271						Duplicate of #00014969-00014970

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015272	F.G. Steward	F.R. Kennedy	M. Rosenfeld	2/24/66	Typed memo	Dacamine Formulation
00015273	Mike	Gordon		2/21/66	Handwritten note	Clearing of Sample
00015274	Gordon	Mike		2/22/66	Handwritten memo	Clearing of Sample
00015275	F.R. Kennedy	R.A. Guidi	F.G. Steward M. Rosenfeld	2/23/66	Typed memo	Dacamine Formulation
00015276	J.C. Kelly	J.O. King	F.R. Kennedy R.A. Guidi M.F. Wilkerson	2/18/66	Typed memo	Dacamine
00015277	M. Rosenfeld	E. Bak	F.R. Kennedy F.G. Steward	1/26/66	Typed memo	Storing of Amines
00015278					Typed form	Purchase Requisition
00015279- 00015280	M. Rosenfeld	E. Bak	F.R. Kennedy	1/14/66	Typed memo & attached specs	Solvents

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015281	L.M. Heath			1/7/66	Handwritten lab analysis	Des Moines 2# Dacamine
0015282	F.G. Steward	E. Bak	F.R. Kennedy M. Rosenfeld	1/3/66	Typed memo	Storing of Amines
0015283- 0015284				2/28/66	Handwritten charts	Dacamines: Raw Materials, Containers & Labels
0015286	F.R. Kennedy	R.A. Guidi	J.S. Cort, Jr. J.O. King	12/30/65	Typed memo	Dacamine Formulations
0015287- 0015291	M. Rosenfeld	E. Bak		12/27/65	Typed memo	Dacamines - Report on Experiments Run re Formulation
0015292- 0015294						Duplicate of #00013732-00013734

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015295	F.G.S.			12/20/65	Blank typed form	Dacamine Batch Sheet
00015296	R.A. Remerscheid	M. Rosenfeld	F.R. Kennedy	12/16/65	Typed memo	Assays of Dacamines
00015297	F.R. Kennedy	R.A. Remerscheid	R.A. Guidi	12/9/65	Typed memo	Dacamine Formulations
00015298- 00015300	R.A. Remerscheid	F.R. Kennedy	R.A. Guidi M. Rosenfeld	11/19/65	Typed memo	Dacamine Formulations
00015301	M. Rosenfeld	E. Bak	F.R. Kennedy F.G. Steward	11/15/65	Typed memo	4# Dacamine-D Formulation
00015302	F.R. Kennedy	R.A. Guidi		11/9/65	Typed memo	Dacamine Labeling
00015303	Mike			11/7/65	Handwritten memo	Shipment of Dacamine 4D in Early 1966
00015304					Handwritten figures	Dacamine Production Requirements

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015305	J.C. Kelly	F.R. Kennedy	W.J. Byrne	10/28/65	Typed memo	Dacamine Formulations
00015306	M. Rosenfeld	E. Bak	F.R. Kennedy	9/22/65	Typed memo	Emulsifier for Dacamines
00015307	R.A. Remerscheid	J.S. Cort, Jr.	F.R. Kennedy	9/16/65	Typed memo	Dacamine Formulation
00015308	Supplier of Solvent	Solvent Distributor		9/10/65	Typed letter	Solvent for Dacamines
00015309	J.W. Daniel	F.R. Kennedy	J.S. Cort	7/21/65	Typed memo	Labels
00015310- 00015311	S.S. Szabo Boyce Thompson Instit. For Plant Research, Inc. Diamond Alkali Fellowship	Dr. Schuldt Mr. Sprayberry Mr. Kennedy Dr. Chandler Mr. King Mr. Cort Mr. Davis Dr. R.L. Schauer Dr. Limpel		8/26/65	Typed memo	Volatility Test On Dacamine
00015312	W.A. Goodloe	E. Bak		6/30/65	Typed memo	Dacamine Formulations
00015313	J.S. Cort, Jr.	All Ag Chem Division Personnel		6/28/65	Typed memo	Heritage House

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015314	F.R. Kennedy	J.S. Cort, Jr.		6/21/65	Typed memo	Dacamine Formulation- Heritage House
00015315	R.L. Dezember	J.O. King	F.R. King	6/15/65	Typed memo	Dacamine Formulation- Heritage House
00015316- 00015317	M. Rosenfeld	E. Bak	F.R. Kennedy	6/17/65	Typed memo	Dacamine - D/T Concentrate Formulation
00015318	J.S. Cort, Jr.	F.R. Kennedy	J.C. Kelly R.A. Remerscheid	5/28/65	Typed memo	Dacamine Inventory at Newark
00015319	J.O. King	J.S. Cort, Jr.	F.R. Kennedy R.A. Remerscheid J.C. Kelly	5/27/65	Typed memo	Dacamine Inventory at Newark
00015320	F.R. Kennedy	J.S. Cort, Jr.		5/3/65	Typed memo	Packaged Inventory of Dacamine Formulations
00015320A	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	4/28/65	Typed memo	Packaged Inventory of Dacamine Formulations
00015321				4/28/65	Handwritten notes	Dacamine Inventory

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015322	J.S. Cort, Jr.	F.R. Kennedy	J.O. King	4/28/65	Typed memo	Emulsifier for Dacamines
00015323	M. Rosenfeld	E. Bak	F.R. Kennedy B. Sprayberry	4/14/65	Typed memo	Solvents for Dacamine-D
00015324	F.R. Kennedy	J.S. Cort, Jr.		4/9/65	Typed memo	Dacamine Emulsifier
00015325					Handwritten notes & figures	
00015326	Mike	WGH		3/11/65	Handwritten memo	Inventory on Chemicals From Dacamine Production
00015327	J.C. Kelly	All Ag Chem Specialists	F.R. Kennedy R.A. Remerscheid M.F. Wilkerson J.O. King	3/8/65	Typed memo	Dacamine Formulations
00015328	F.R. Kennedy	B.A. Sprayberry		3/4/65	Typed memo	Dacamine Extendability
00015329	B.A. Sprayberry	F.R. Kennedy		2/19/65	Typed memo	Dacamine Extendability

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015330	F.R. Kennedy	J.O. King	J.S. Cort, Jr. J.C. Kelly R.A. Remerscheid	3/4/65	Typed memo	Dacamine Samples
00015331	J.C. Kelly	F.R. Kennedy	J.S. Cort, Jr. J.O. King	3/2/65	Typed memo	Dacamine Samples
00015332	H.P. Woods	J.C. Kelly	F.R. Kennedy J.O. King J. Jacobs R.A. Remerscheid	3/3/65	Typed memo	Dacamine Promotional Program
00015333	B.A. Sprayberry	All Ag Chem Specialists		2/19/65	Typed memo	Non-Volatility of Dacamine
00015334	J.C. Kelly	H.P. Woods	R.A. Remerscheid F.R. Kennedy K.Y. Lyttle J.O. King	2/18/65	Typed memo	Dacamine Promotional Program
00015335	J.C. Kelly	All Ag Chem Specialists	J.O. King M.F. Wilkerson R.A. Remerscheid F.R. Kennedy	2/18/65	Typed memo	DACAMINE - Promotional Program

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015336	J.S. Cort, Jr.	F.R. Kennedy	J.C. Kelly J.O. King	2/18/65	Typed memo	DACAMINE Production 1965 - Newark
00015337	F.R. Kennedy	B.A. Sprayberry		1/25/65	Typed memo	Dry Dacamine-D Salt
00015338	M. Rosenfeld	E. Bak	F.R. Kennedy	1/21/65	Typed memo	Dry Dacamine-D Salt
00015339	J.S. Cort, Jr.	R.A. Remerscheid	B.A. Sprayberry E.L. Chandler F.R. Kennedy J.O. King M.F. Wilkerson	1/15/65	Typed memo	New Dacamine Formulations
00015340	F.R. Kennedy	J.S. Cort, Jr.		1/7/65	Typed memo	Dacamine Production
00015341- 00015342				1/6/65	Typed memo	Dacamine Formulation
00015343	B.A. Sprayberry	M.F. Kennedy		1/8/65	Typed memo	New Dacamine Formulations
00015344						Duplicate of #00015343

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015345- 00015346A	B.A. Sprayberry	E.L. Chandler	J.S. Cort M.F. Wilkerson J.O. King F.R. Kennedy M. Rosenfeld E. Bak R.A. Remerscheid	1/8/65	Typed memo	New Dacamine Formulations
00015347	Wm. Tobin	Mr. Kennedy Mr. Hill	-	1/7/65	Typed memo	Dacamine Pumping Operations
00015348- 00015349						Duplicate of #00015341-00015342
00015350					Handwritten notes	Dacamine-4D
00015352- 00015353	B.A. Sprayberry	E.L. Chandler	J.S. Cort M.F. Wilkerson J.O. King F.R. Kennedy M. Rosenfeld R.A. Remerscheid	12/28/64	Typed memo	Dacamine-4D Formulation

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015354	B.A. Sprayberry	R.A. Remerscheid	E.L. Chandler J.S. Cort F.R. Kennedy J.O. King M.F. Wilkerson	12/15/64	Typed memo	Dacamine Assay
00015355	L.D. Metcalfe	B.A. Sprayberry	M.R. McCorkle R.A. Reck W.W. Abramitis F.R. Kennedy R.A. Remerscheid	12/11/64	Typed letter	Dacamine Analysis
00015356	B.A. Sprayberry	E.L. Chandler	R.A. Remerscheid F.R. Kennedy J.O. King	12/10/64	Typed memo	Dacamine Analysis
00015357	B.A. Sprayberry	E.L. Chandler	J.S. Cort J.O. King F.R. Kennedy R.A. Remerscheid	12/10/64	Typed memo	Dacamine Analysis Demonstration
00015358	F.R. Kennedy	J.C. Kelly		12/4/64	Typed memo	Technical Silvex Procurement
00015359	J.C. Kelly	F.R. Kennedy		12/2/64	Typed memo	Technical Silvex Procurement
00015360	F.R. Kennedy	J.C. Kelly		11/27/64	Typed memo	Technical Silvex Procurement

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015361	B.A. Sprayberry	E.L. Chandler	J.O. King R.A. Remerscheid R.F. Kennedy	11/25/64	Typed memo	Dacamine Complaints
00015362		E.L. Chandler F.R. Kennedy J.O. King E.R. Luoma R.A. Remerscheid B.A. Sprayberry		11/25/64	Typed report	Complaint Status Report for Drum of Dacamine
00015363		E.L. Chandler F.R. Kennedy J.O. King E.R. Luoma R.A. Remerscheid B.A. Sprayberry		11/23/64	Typed report	Complaint Status Report for Drum of Dacamine - Cover to #00015364
00015364	E. Luoma	M.F. Kennedy		9/10/64	Typed report	Complaint Report for Drum of Dacamine
00015365	E.R. Luoma	J.O. King	R. Remerscheid	10/9/64	Typed memo	Dacamine Complaint Sample
00015366- 00015367	R.A. Remerscheid	Dr. E.L. Chandler	J.O. King Dr. B.A. Sprayberry M. Rosenfeld F.R. Kennedy	10/22/64	Typed memo	Dacamine Complaint Sample

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015368	J.O. King	R.A. Remerscheid	Dr. E.L. Chandler F.R. Kennedy M. Rosenfeld Dr. B.A. Sprayberry	11/9/64	Typed memo	Dacamine 4-D Complaint Sample
00015369- 00015370	R.A. Remerscheid	J.O. King	Dr. E.L. Chandler Dr. B.A. Sprayberry F.R. Kennedy M. Rosenfeld	11/13/64	Typed memo	DACAMINE 4-D Complaint Sample
00015371- 00015372						Duplicate of #00015369-00015370
00015373	M. Rosenfeld	E. Bak	F.R. Kennedy R.A. Remerscheid	11/13/64	Typed memo	2# Silvex Specs
00015374						Duplicate of #00015368
00015375	R.A. Remerscheid	M. Rosenfeld	F.R. Kennedy	10/27/64	Typed memo	2# Silvex Formulation

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015376- 00015377						Duplicate of #00015366-00015367
00015378	R.A. Remerscheid	M. Rosenfeld	F.R. Kennedy	9/29/64	Typed memo	Dacamine Complaint Samples
00015379	F.R. Kennedy	J.C. Kelly	J.O. King	9/11/64	Typed memo	Silvex
00015380	J.C. Kelly	R.A. Remerscheid F.R. Kennedy	J.O. King	8/21/64	Typed memo	Silvex
00015381	J.C. Kelly	J.O. King		8/11/64	Typed memo	Silvex
00015382- 00015384	E.L. Chandler	File	F.R. Kennedy J.O. King G.A. Lawrence R.A. Remerscheid	7/31/64	Typed memo	Dacamine Complaints & Field Test
00015385	R.A. Remerscheid	H.A. Kohrmann	J.O. King Dr. E.L. Chandler F.R. Kennedy	7/29/64	Typed memo	Dacamine 4-D Analysis
00015386- 00015388	R.A. Remerscheid,	J.S. Cort, Jr.		7/28/64	Typed memo	Dacamine Complaints

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015389	F.R. Kennedy	H. Kohrmann	J.O. King E.L. Chandler R.A. Remerscheid	7/27/64	Typed memo	Analysis of Dacamine 4-D Complaint Sample
00015390	Howard A. Kohrmann	F.R. Kennedy	J.O. King E.L. Chandler	6/8/64	Handwritten memo	Samples of Water & Dacamine re Complaint
00015391	F.R. Kennedy	J.S. Cort, Jr.	E.L. Chandler R.A. Remerscheid J.O. King	7/27/64	Typed memo	Dacamine Complaints
00015392	F.R. Kennedy	J.S. Cort, Jr.	J.O. King	7/15/64	Typed memo	Dacamine Complaints
00015393	R.A. Remerscheid	Dr. R.J. Marrese	F.R. Kennedy E.R. Luoma Orville Oyleo	7/15/64	Typed memo	Dacamine Solvents
00015394	H.A. Branson	F.R. Kennedy	J.O. King	5/6/64	Typed memo	Dacamine Sample
00015395				7/13/64	Typed chart	Dacamine Complaint Samples

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015396	R.A. Remerscheid	Dr. E.L. Chandler	F.R. Kennedy	7/13/64	Typed memo	Amine
00015397- 00015408	Supplier of Amine	R. Remerscheid		6/30/64	Typed letter & attachments	Data on Supplier's Amines
00015409					Handwritten notes	Dacamine Complaints
00015410	E.L Chandler	R.A. Remerscheid	F.R. Kennedy Milt Rosenfeld	7/9/64	Typed memo	Dacamine Quality Control
00015411- 00015412A	F.R. Kennedy	M.F. Wilkerson		5/4/64	Typed memo & attached figures	Dacamine D & T Formulations
00015413					Handwritten figures	Manufacturing Costs for Dacamines
00015414	Mike	RFG		1/29/64	Handwritten memo	Sample of Amine
00015415	F.R. Kennedy	H.A. Branson		4/29/64	Typed memo	Competitor's "Dacamine"

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015416	F.R. Kennedy	J.C. Kelly	J.O. King	4/13/64	Typed memo	Dacamine Inventory
00015417	J.C. Kelly	F.R. Kennedy	C.W. Feinberg J.O. King R.M. Hopkins	3/31/64	Typed memo	Dacamine Inventory
00015418	Chet Feinberg	J.C. Kelly	T. Hammer	3/23/64	Typed memo	Dacamine Inventory
00015419	R.A. Remerscheid	J.C. Kelly	J.S. Cort, Jr. J.O. King F.R. Kennedy	3/5/64	Typed memo	Dacamine Herbicides
00015420	J.C. Kelly	R.A. Remerscheid	J.O. King J.S. Cort, Jr. F.R. Kennedy	3/2/64	Typed memo	Dacamine Packaging
00015421	R.A. Remerscheid	J.C. Kelly	F.R. Kennedy J.O. King W.J. Hotes	2/28/64	Typed memo	Dacamine Raw Material Requirements
00015422	F.R. Kennedy	J.S. Cort, Jr.	J.O. King R.M. Remerscheid	2/25/64	Typed memo	Dacamine Formulation

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015423- 00015424	F.R. Kennedy	C.W. Feinberg	J.C. Kelly	2/25/64	Typed memo & attached notes	Dacamine Formulation Shipments
00015425	J.C. Kelly	F.R. Kennedy	R.A. Remerscheid C.W. Feinberg	2/21/64	Typed memo	Dacamine Shipments
00015426	M.F. Wilkerson	F.R. Kennedy	J.S. Cort, Jr. J.O. King R.A. Remerscheid	2/18/64	Typed memo	Dacamine Containers
00015427- 00015428	Mike	Dick		1/30/64	Handwritten memo & figures on shipment	Shipment of Dacamines
00015429	F.R. Kennedy	M.F. Wilkerson	J.S. Cort, Jr. J.O. King R.M. Remerscheid	1/31/64	Typed memo	Dacamine Formulations
00015430	R.A. Remerscheid	J.C. Kelly	F.R. Kennedy	1/25/64	Typed memo	Dry T Acid Requirements
00015431	J.C. Kelly	R.A. Remerscheid	J.O. King	11/22/63	Typed memo	Dacamine Inventory

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015432	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy	11/21/64	Typed memo	Dacamine-2D Formulation
00015433	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy W.E. Hill, Jr.	1/20/64	Typed memo	Dacamine-2D and -2T Formulations
00015434				1/17/64	Typed figures	Inventory of Dacamines
00015435	F.R. Kennedy	J.S. Cort, Jr.	J.O. King R.M. Remerscheid	1/24/64	Typed memo	Dacamine Formulation
00015436- 00015437	M. Rosenfeld	R.F. Lindemann		1/16/64	Typed memo	2# Dacamine Formulation
00015438	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy B.A. Sprayberry	12/16/63	Typed memo	Cover Note to #00015439
00015439	M.R.			12/63	Handwritten graph	Temperature-Viscosity Curves For 4# Dacamine Concentrates
00015440						Duplicate of #00015395
00015441						Duplicate of #00015395

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015443- 00015444						Duplicate of #000150004-00015005
00015445- 00015452	Diamond Alkali Co.				Typed data with attached charts & graph	Dacamine Specifications
00015453	W.E. Hill, Jr.	J.C. Kelly	F.R. Kennedy	12/5/63	Typed memo	Dacamine Containers
00015454	J.C. Kelly	F.R. Kennedy	J.O. King M.F. Wilkerson	11/29/63	Typed memo	Dacamine Containers and Raw Materials
00015455						Duplicate of #00015431
00015456		Dick Light Mike			Handwritten memo	Shipping Costs

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015457	R.A. Remerscheid	J.C. Kelly	J.O. King F.R. Kennedy	11/25/63	Typed memo	Dacamine Raw Materials
00015458	B.A. Sprayberry	F.R. Kennedy	J.O. King H.A. Branson	12/5/63	Typed memo	Dacamine Viscosity
00015459	F.R. Kennedy	R.M. Remerscheid	J.S. Cort, Jr.	11/21/63	Typed memo	Dacamines (cover to #00015460-00015461)
00015460- 00015461				11/21/63	Typed memo	Mixing of Dacamine Formulations
00015462						Duplicate of #00015452
00015463	R.A. Remerscheid	J.S. Cort, Jr.	F.R. Kennedy	11/20/63	Typed memo	Dacamines
00015464	F.R. Kennedy	J.S. Cort, Jr.		11/20/63	Typed memo	Dacamines
00015465	R.F. Lindemann	R.A. Remerscheid		11/20/63	Typed memo	Dacamine Raw Materials
00015466	J.S. Cort, Jr.	F.R. Kennedy	R.A. Remerscheid	11/18/63	Typed memo	Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015467	F.R. Kennedy	J.P. McHaney	J.O. King	10/16/63	Typed memo	Analysis of Dacamine Sample
00015468	R.A. Remerscheid	J.C. Kelly	F. Kennedy	9/18/63	Typed memo	Dacamine Shipments
00015469	R.F. Lindemann	J.W. Daniel	R.A. Guidi	5/31/63	Typed memo	Analysis of Dacamine Samples
00015470	R.F. Lindemann	F.R. Kennedy	R.A. Guidi W.E. Hill, Jr.	3/25/63	Typed memo	Suitability of Dry Acid For Dacamine
00015471						Duplicate of #00015470
00015472	M. Rosenfeld	R.F. Lindemann	V. Cayton R.A. Guidi W.E. Hill, Jr.	2/5/63	Typed memo	Preparation of Amine Salt of 2,4-D
00015473	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	2/5/63	Typed memo	Amine for Dacamines
00015474	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	2/4/63	Typed memo	Preparation of Experimental Dacamine Sample
00015475- 00015476	R.J. Marrese	E.L. Chandler	Roy Davis A.L. Galloway R.A. Guidi J.O. King P.H. Schuldt D.M. Warburton	1/22/63	Typed memo	Dacamine Patentability

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015477	A.L. Galloway	R.J. Marrese	R.A. Guidi J.O. King P.H. Schuldt	12/31/62	Typed memo	Dacamine Formulations - Patent Rights
00015478	R.A. Remerscheid	R.A. Guidi	J.C. Kelly	1/15/63	Typed memo	Dacamine Requirements
00015479	R.A. Guidi	R.A. Remerscheid	E. Luoma	1/7/63	Typed memo	Dacamine Mix
00015480	R.A.G.	W.E.H. R.F.L. M.R.		1/3/63	Handwritten note	Cover Note
00015481	R.A. Remerscheid	R.A. Guidi		12/18/62	Typed memo	Dacamine Requirements 1963
00015482	E.R. Luoma	R. Remerscheid	J.O. King R.R. Wood	12/14/62	Typed memo	Dacamine Requirements 1963
00015483	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	1/3/63	Typed memo	Preparation of Amine Salt Sample
00015484- 00015485				1/17/63	Hand filled-in chart	Raw Materials Standards for 4# Dacamine T & D

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015486					Handwritten note	Dacamine - 1962
00015487						Duplicate of #00015477
00015488	R.J. Marrese	R.A. Guidi	P.H. Schuldt J.O. King	12/14/62	Typed memo	Dacamine Formulations - Patent Rights
00015489	Supplier of Amine	R.A. Guidi		12/11/62	Typed letter	Amine for Dacamines
00015490	R.A. Remerscheid	R.A. Guidi		11/1/62	Typed memo	Estimated Dacamine Requirements 1963
00015491	R.A. Guidi	R.J. Marrese		10/31/62	Typed memo	Dacamine Silvex
00015492	R.J. Marrese	R. Guidi		10/25	Telex	Inventory of Dacamine Silvex
00015493	R. Guidi	R.J. Marrese		10/26	Telex	Silvex Acid for Conversion to Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015494	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	10/19/62	Typed memo	Dacamine Formulations
00015495- 00015501	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo & attachments	Viscosity & Stability of Dacamines
00015502- 00015503	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo	Recommendation & Description of a New #4 Dacamine-TP Formulation
00015504- 00015505					Typed memo	4# Dacamine-TP Specifications
00015506	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo	Evaluation of Amine Sample
00015507	M. Rosenfeld	R.F. Lindemann		10/19/62	Typed memo	Evaluation of Amine Sample
00015508	R.F. Lindemann	W.E. Hill, Jr.	R.A. Guidi M. Rosenfeld	10/12/62	Typed memo	Chromatographic Analysis of Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015509- 00015511	R.L.	R.A. Guidi			Handwritten memo	Dacamine Stability
00015512	R.J. Marrese	Roy Davis	P.H. Schuldt D.M. Warburton J.O. King	10/5/62	Typed memo	Dacamines- Patentable Features
00015513	Milton Rosenfeld	R.F. Lindemann	R.A. Guidi M. Rosenfeld	9/19/62	Typed memo	Extendability of Dacamine-T
00015514	R.A. Guidi	R.J. Marrese		9/19/62	Typed memo	Cover to #00015515
00015515	R.J. Marrese	J.P. Conroy	R.R. Wood R.A. Guidi	8/15/62	Typed memo	Extendability of Dacamine T
00015516	R.A. Guidi	J.C. Kelly	J.O. King	9/18/62	Typed memo	Dacamine Inventory
00015517	R.A. Guidi	Illegible		9/18/62		Cover Note to #00015518-00015519
00015518- 00015519						Duplicate of #00015004-00015005
00015520	R.A. Guidi	J.O. King	H.S. Weiner	8/6/62	Typed memo	Amines for Dacamine
00015521	J.O. King	R.A. Guidi	H.S. Weiner	7/26/62	Typed memo	Amines for Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015522	M. Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill	5/15/62	Typed memo	Dacamine Formulations- Aging Tests
00015523	R.A. Guidi	R.J. Marrese		5/4/62	Typed memo	Label For Dacamines
00015524	R.J. Marrese	P.H. Schuldt	R.A. Guidi J.O. King	5/3/62	Typed memo	Nomenclature for Dacamines
00015525	R.A. Guidi	J.C. Kelly		4/17/62	Typed memo	Dacamine Shipment
00015526	R.A. Guidi	J.O. King	E. Chandler H.S. Weiner	4/16/62	Typed memo	Dacamine Samples
00015527	R.A. Guidi	R.J. Marrese	T.O. Evrard	4/12/62	Typed memo	Shipment of Dacamine T Samples
00015528		R.A. Guidi				Routing Slip
00015529	R.J. Marrese	Ernst V. Bender Macon Research Center	T.O. Evrard R.A. Guidi	4/9/62	Typed letter	Non-Emulsifiable Dacamines
00015530	Ernst V. Bender Macon Research Center	T.O. Evrard		4/6/62	Typed letter	Proposed Test on Dacamine T (Non-Emulsifiable)

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015531	R.A. Guidi	R.J. Marrese		4/12/62	Typed memo	Dr. Smith's Report re Dacamines
00015532	R.J. Marrese	Dr. Roy J. Smith U.S. Dept. of Agric., Crops Research Div.	R.A. Guidi DeWitt Handly E.G. Osborne	4/9/62	Typed letter	Dacamine 2,4-D & 2,4,5-T Samples
00015533- 00015534	Roy J. Smith, Jr. U.S. Dept. of Agric., Crops Research Div.	DeWitt Handly		4/5/62	Typed letter	Rice Samples & Treatments (With Procedure & Results)
00015535	Milton	R.A. Guidi		4/4/62	Handwritten memo	4# Dacamine-D and -T Samples
00015536- 00015537	Milton Rosenfeld	R. Lindemann		4/3/62	Typed memo & attached cost sheet	Cost Sheet for 4# Dacamine-D
00015538	R.J. Marrese	All Branch Managers All Ag Chem Specialists	R.A. Guidi R.A. Remerscheid R.R. Wood	3/3/62	Typed memo	Testing of MCP-Dacamine
00015539	R.J. Marrese	All Branch Managers All Ag Chem Specialists	R.A. Guidi R.A. Remerscheid R.R. Wood	4/2/62	Typed memo	Dacthal-Dacamine Combinations

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0015540- 0015541	R.J. Marrese	R.A. Guidi		3/26/62	Typed memo	Formulation of Amine With 2,4-D & 2,4,5-T Dry Acids
0015542	R.J. Marrese	R.A. Guidi	J.O. King R.A. Remerscheid H.S. Weiner	3/21/62	Typed memo	Dacamine D Granules
0015543	R.J. Marrese	R.A. Remerscheid	J.A. Borrer R.A. Guidi F.M. Kennedy M. Rosenfeld	3/2/62	Typed memo	Dacamine Granulars
0015544	R.A. Guidi	J.C. Kelly	H.S. Weiner T.O. Evrard	3/16/62	Typed memo	Dacamine Raw Material Orders
0015545	J.C. Kelly	R.A. Guidi		3/13/62	Typed memo	Dacamine Order
0015546	R.A. Guidi	R.A. Remerscheid		3/12/62	Typed memo	Dacamine Granulars
0015547	J.A. Borrer	R.A. Remerscheid	R.J. Marrese R.A. Guidi F.M. Kennedy M. Rosenfeld	3/9/62	Typed memo	Dacamine Granulars

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015548	R.A. Guidi	R.J. Marrese	R.A. Remerscheid J.O. King J.A. Borrer	3/1/62	Typed memo	Dacamine 2-lb. Concentrate Formulations For Experimental Testing
00015549	J.A. Borrer	R.J. Marrese	R.A. Guidi F.M. Kennedy M. Rosenfeld R.A. Remerscheid	2/26/62	Typed memo	Dacamine 2-lb. Concentrate Formulations For Experimental Testing
00015550	J.A. Borrer	File	M. Kennedy J. Clark R.A. Guidi	2/21/62	Typed memo	Dacamine-D & -T Requirements
00015551	R.J. Marrese	J.A. Borrer	R.A. Guidi R.A. Remerscheid	12/19/62	Typed memo	Dacamine 2-lb. Concentrate Formulations For Experimental Testing
00015552- 00015553	R.J. Marrese	R.A. Guidi		12/18/61	Typed memo	Dacamine Formulations
00015554						Duplicate of #00015565
00015555	J.R. Clark	J.A. Borrer	R.A. Guidi M. Rosenfeld	1/31/62	Typed memo	Raw Material Costs for 6# Technical Dacamine-D

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015556	R.A. Guidi	J.C. Kelly		1/30/62	Typed memo	Standard Cost for Dacamine 2T
00015557	J.C. Kelly	R.A. Giudi		1/24/62	Typed memo	Standard Cost for Dacamine 2T
00015558	R.A. Guidi	R.A. Remerscheid	J.O. King C.W. Feinberg H.S. Weiner	1/30/62	Typed memo	Dacamine Granulars
00015559	J.C. Kelly	C.W. Feinberg	E.L. Chandler R.A. Guidi	1/17/62	Typed memo	Dacamine Label
00015560	R.A. Remerscheid	J.O. King	R.A. Guidi C. Feinberg H.C. Weinberg	12/1/61	Typed memo	Dacamine Granulars
00015561- 00015564	J.R. Clark	J.A. Borrer	F. Bobrowicz R.A. Guidi F.R. Kennedy M. Rosenfeld	1/15/62	Typed memo	Formulations of Dacamines - Operating Instructions - General Procedure
00015565	R.J. Marrese	R.A. Guidi		1/10/62	Typed memo	Formulation of Oil-Soluble, Water- Emulsifiable Amines
00015566	R.A. Guidi	J.O. King	R.L. Chandler R.J. Marrese	12/13/61	Typed memo	Raw Materials Inventory for Dacamines

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015567	R.A. Guidi	J.O. King	R.J. Marrese H.S. Weiner	11/22/61	Typed memo	Dacamine Sales Forecast
00015568	R.J. Marrese	R.A. Guidi	J.R. Clark J.O. King M. Rosenfeld	10/25/61	Typed memo	Raw Materials for Dacamines
00015569	J.O. King	R.A. Remerscheid	R.A. Guidi C.W. Feinberg	11/6/61	Typed memo	Dacamine Granulars
00015570	J.R. Clark	M. Rosenfeld	R.A. Guidi F.R. Kennedy	9/25/61	Typed memo	Amine for Dacamines
00015571	R.A. Guidi	R.J. Marrese	E.L. Chandler J.R. Clark J.O. King H.S. Weiner	9/21/61	Typed memo	Amine Sample
00015572	R.J. Marrese	R.A. Guidi	J.O. King E.L. Chandler J.R. Clark	9/5/61	Typed memo	Amine
00015573	J.O. King	R.A. Guidi	E.L. Chandler R.J. Marrese T.O. Evrard H.S. Weiner	8/31/61	Typed memo	Amine for Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015574	H.S. Weiner	J.O. King	E.L. Chandler R.A. Guidi	8/31/61	Typed memo	Anticipated Sales of Dacamine
00015575	E.L. Chandler	Dr. R. J. Weir, Jr. Hazelton Labs Falls Church, Va.	R.A. Guidi J.O. King	9/19/61	Typed letter	Toxicological Tests on D/T Amine and Formula for Same
00015576	R.J. Marrese	R.A. Guidi	J.R. Clark	9/7/61	Typed memo	Cover to #00015577
00015577	R.J. Marrese	All Branch Managers All Ag Chem Specialists		9/6/61	Typed memo	Dacamine Use
00015578- 00015579	J.R. Clark	R.J. Marrese	R.A. Guidi F.R. Kennedy M. Rosenfeld	9/1/61	Typed memo	Label Data For Dacamines
00015580- 00015581	R.A. Guidi	H.S. Weiner	J.O. King	8/30/61	Typed memo	Dacamine Costs and Process
00015582	J.R. Clark	R.J. Marrese	R.A. Guidi F.R. Kennedy M. Rosenfeld	8/3/61	Typed memo	Chemical Reactions Involved in Reacting 2,4-D & 2,4,5-T With Amine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015583	R.J. Marrese	J.R. Clark		7/28/61	Typed memo	Chemical Reactions Involved in Reacting 2,4-D & 2,4,5-T With Amine
00015584	R.A. Guidi	J.O. King	H.S. Weiner R.A. Remerscheid	7/23/61	Typed memo	Trade Report re Labeling of Samples
00015585	D.J. Dickson			6/27/62	Typed report	Trade Report re Labeling of Samples
00015586	M. Rosenfeld	R.A. Guidi		7/18/62	Typed memo	Dacamine Samples
00015587	R.A. Guidi	Harold Branson	J.O. King H.S. Weiner	6/20/62	Typed memo	Dacamine Formulations
00015588	R.A. Guidi	J.O. King	H.S. Weiner M.F. Wilkerson R.A. Remerscheid	6/14/62	Typed memo	Production and Properties of Dacamine Formulations
00015589	R.A. Guidi	J.O. King	J.C. Kelly H.S. Weiner	4/6/62	Typed memo	Properties of 4# Dacamine-D Formulation
00015590	J.O. King	R.A. Guidi	H.S. Weiner M.F. Wilkerson R.A. Remerscheid	6/11/62	Typed memo	Dacamine Inventories

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015591	Milton Rosenfeld	R.F. Lindemann	R.A. Guidi W.E. Hill, Jr.	6/13/62	Typed memo	Formula for Dacamin D/T
00015592	R.A. Guidi	J.O. King	H.S. Weiner M.F. Wilkerson	5/18/62	Typed memo	Dacamine Inventories
00015593	R.A. Guidi	H. Branson	J.O. King R.F. Lindemann M. Rosenfeld	5/17/62	Typed memo	Dacamine Formulations
00015594	Milton Rosenfeld	R.A. Guidi		5/14/62	Typed memo	Dacamine Samples
00015596- 00015597					Handwritten calculations	Dacamine Ingredients
00015598- 00015600	F.R. Kennedy	H.H. Harris		9/17/73	Typed memo	Dacamine Product Labeling

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015601	A.F. Marks	F.R. Kennedy	G.D. Munger	9/18/73	Typed memo	Ingredient Statements, Dacamine Products
00015602	F.R. Kennedy	File		9/17/73	Typed memo	Dacamine Active Ingredient Calculations
00015603- 00015609					Handwritten calculations	Dacamine Ingredients
00015610- 00015611					Specimen labels	Dacamine & Dacamine 4D
00015612- 00015615	M. Rosenfeld	F.G. Steward	R. Chonoles G.L. Pratt J. Synek	3/3/69	Typed memo	Data on Dacamine Formulations
00015616						Duplicate of #00015036
00015617- 00015621						Duplicate of #00015037-00015041

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015622- 00015626						Duplicate of #00014951-00014955
00015627- 00015630						Duplicate of #00014956-00014959
00015631- 00015633						Duplicate of #00014941-00014943
00015634- 00015639						Duplicate of #00014944-00014950
00015640	F.R. Kennedy	A. Marks	G.D. Munger	9/14/73	Typed memo	Ingredient Statements for Dacamines

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015641- 00015642						Duplicate of #00015155-00015156
00015643- 00015646						Duplicate of #00014956-00014959
00015647- 00015649						Duplicate of #00014941-00014943
00015650- 00015651	G.L. Pratt	M.F. Kennedy	E.L. Chandler R.A. Guidi J.A. Ignatoski J.O. King F.G. Steward	8/27/68	Typed memo	Dacamine Formulations
00015652- 00015653						Duplicate of #00015650-00015651
00015654						Duplicate of #00014991

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015655						Duplicate of #0001501
00015656						Duplicate of #00015003
00015657- 00015660	M. Rosenfeld	F.G. Steward	F.R. Kennedy R.A. Guidi	4/3/67	Typed memo	Raw Materials for Dacamine Formulations
00015661	M. Rosenfeld	F.G. Steward	F.R. Kennedy J.P. McCabe R.A. Guidi	10/7/69	Typed memo	Specification for Amine in Dacamine Formulations
00015662- 00015666						Duplicate of #00015037-00015041
00015667						Duplicate of #00015243
00015668- 00015671						Duplicate of #00015246-00015249
00015672	R.L. Urbanowski	F.G. Steward	E.L. Chandler R.A. Guidi J.O. King J.A. Ignatoski A. DiDario F.R. Kennedy	4/3/68	Typed memo	Dacamine 1968 Field Program

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
1015673	R.A. Remerscheid	G.L. Pratt		11/18/68	Typed memo	Cover to #00015674-00015681
1015674- 1015681	R.A. Remerscheid	R.A. Guidi	Bill Pierson J.O. King T. Neidlinger	5/20/66	Typed memo	Emulsification of Dacamine 4D
1015682- 1015685						Duplicate of #00015237-00015240
1015686- 1015687						Duplicate of #00015043-00015044
1015688	J.A. Ignatoski	J.P. McCabe	W.H. Bricker G.L. Pratt J.O. King R.A. Guidi	9/4/69	Typed memo	Dacamine Formulation Study
1015689- 1015692						Duplicate of #00003253-00003256

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00015703						Duplicate of #000000768
00015723 00015774 00015776-78 00015861 00015863-67 00015869						Excerpts From Specification Manual Notebook
00015949	C.T. Cross	M.J. Skeeters	R.L. Annis H. Bluestone D.R. Geaman A. Hlynsky T.F. Holder C.E. Entemann G.F. Rugar N.V. Seegar L.P. Seyb	1/16/59	Typed memo	2,5-Bis (Hydroxy- methyl) Trichloro- phenols Patent Dept. Docket No. 886
00016061- 00016069	R.M. Bimber	O.K. Furuta	H. Hlynsky R.H. Lasco E.A. Lavergne Central Files	7/28/78	Typed memo	Prospects for Higher Yields of Chloro- acetic Acid & 2,4- Dichlorophenol
00016077	S.B. Honour	C.T. Cross	H.E. Everson J.S. Cort R.G. Buettner S.S. Savage R.C. Sutter	1/26/67	Typed memo	Diamond Japanese Patent No. 285,063 Proposed License
00017451- 00017457				12/69	Typed charts	Biochem Div., Ag Chem Dept., Financial Statements From Different ants

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017462- 00017464	F. Gordon Steward			12/10/69	Typed memo	Ag Chem Div - Newark Plant Operating Comments November 1969
00017466- 00017467	F. Gordon Steward			10/8/69	Typed memo	Biochem Div - Newark Plant Operating Comments September 1969
00017468- 00017472				8/69	Typed charts	Biochem Div., Ag Chem Dept., Financial Statements From Different Plants
00017473		R.L. Chonoles		6/2/69	Typed letter	Manufacturing Chemists Ass'n Certificate of Achievement For Newark Plant
00017474- 00017476						Duplicate of #00014985-00014987

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017740	F.R. Kennedy	C.H. Gilbert		11/9/70	Typed memo	Analysis of Dacamine
00017741- 00017742	A.E. Conroy II U.S. Dept. of Agric.	C.H. Gilbert		8/14/70	Typed letter & attached Official Method of Analysis	Analysis of Dacamine
00017743	G.D. Munger	Ralph McElhaney	C.H. Gilbert	7/2/70	Typed memo	Amine for Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017744	R.E. Gilmore	C.H. Gilbert		5/20/70	Typed memo	Dacamine Containers
00017745- 00017746	C.H. Gilbert	A.E. Conroy II U.S. Dept. of Agric.	(bcc) R.C. Andrews H.H. Harris	6/5/70	Typed letter & attached 2,4-D Method of analysis	Analysis of Dacamine
00017747	R.A. Guidi	C.H. Gilbert	J.P. McCabe R.A. Bruckman H.H. Harris	3/18/70	Typed memo	Dacamine Label
00017748	C.H. Gilbert	R.A. Guidi		3/12/70	Typed memo	Labelling of Dacamine Shipments
00017749	R.A. Bruckman	R.A. Guidi	F.R. Kennedy J.P. McCabe C.H. Gilbert J.C. Kelly L.E. Rauch M.E. Engleka R.L. Ellis E.P. Worthington L.F. Schuelke	2/27/70	Typed memo	Dacamine Packaging
00017750	J.O. King	C.H. Gilbert	J.P. McCabe	3/11/70	Typed memo with hand- written notes	Application of Dacamine

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017751	C.H. Gilbert	J.O. King	J.P. McCabe	3/6/70	Typed memo	Application of Dacamine
00017752- 00017755	Stuart W. Turner, Stuart W. Turner & Co., Inc.	C.H. Gilbert		2/24/70	Typed letter & attached newspaper clippings	Application of Dacamine
00017756- 00017758	C.T. Baldanza	J.S. Cort, Jr.	R.A. Guidi J.O. King M.F. Wilkerson	2/1/67	Typed memo & attached chart	Dacamine Profitability - Year 1966
00017759						Duplicate of #00017751
00017760	J.O. King	C.H. Gilbert	J.P. McCabe G.D. Munger	2/25/70	Typed memo	Dacamine - Insurance Matter
00017761	C.H. Gilbert	Lowell E. Miller, U.S. Dept. of Agric.	R.C. Andrews R.A. Bruckman F.R. Kennedy Citation File	2/20/70	Typed letter	Dacamine - Sample Assay; Addendum to Label
00017762	C.H. Gilbert	S. Turner, Stuart W. Turner Co., Inc.		2/18/70	Typed letter	Dacamine - Volatility
00017763- 00017767						Duplicate of #00015037- 15041

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017768						Duplicate of #00014884
00017769						Duplicate of #00014940
00017770	M. Hochberg	J. Synek	P.H. Schuldt J.L. Fordham G.G. Pirrone A.B. Tillman R.A. Guidi	1/10/69	Typed memo	Dacamine Formulation
00017771	Joe Synek	Mel Hochberg				Routing Slip

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017772- 00017781						Duplicate of #00014941-00014950
00017782	J.P. McCabe	J.C. Kelly	J.O. King	11/6/69	Typed memo	Dacamine Promotion

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017783					Typed memo	Tentative Specification (Dacamine Emulsifiable Concentrate)
00017784	J.P. McCabe	C.H. Gilbert R.A. Guidi J.A. Ignatoski F.R. Kennedy J.O. King G.A. Lawrence R.A. Remerscheid G.L. Troph		9/26/69	Typed memo	Dacamine Formulations Meeting
00017785	M.E. Engleka	J.A. Ignatoski	J.O. King R.A. Guidi J.P. McCabe R.A. Remerscheid	9/25/69	Typed memo	Assay of Dacamine Complaint Sample
00017786	C.H. Gilbert	J.O. King	W.H. Bricker	9/25/69	Typed memo	Dacamine Formulation
00017787- 00017788						Duplicate of #00014848-00014849

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00017789- 00017793						Duplicate of #00014951-00014955
00019395	M. Rosenfeld	F.G. Steward	R. Chonoles R.A. Guidi F.R. Kennedy J.P. McCabe	9/3/69	Typed memo	D/T Acid Samples for Dacamine Production
00019578- 00019580						Duplicate of #00011150-00011152

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00019634	J.R. Baldrige			4/21/56 to 10/26/56	Research notebook	Excerpt From Research Notebook No. 2258
00019637- 00019639	C.E. Entemann			5/13/53 to 8/7/53	Research notebook	Excerpt From Research Notebook No. 1400 Vol. VII
00019641- 00019642	C.E. Entemann			7/23/56 to 5/21/57	Research notebook	Excerpt From Research Notebook No. 2318 Vol. XXI
00019646- 00019647	C.E. Entemann			1/3/61 to 9/61	Research notebook	Excerpt From Research Notebook No. 4147 Vol. V
00019653- 00019654	C.E. Entemann			10/1/61 to 1/11/63	Research notebook	Excerpt From Research Notebook No. 4165
00019716- 00019717	Walter H. Gunn			4/30/62 to 7/24/62	Research notebook	Excerpt From Research Notebook No. 4907
00019729	Walter H. Gunn			7/25/62 to 10/25/62	Research notebook	Excerpt From Research Notebook No. 4998

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00019774	Alex Hlynsky			1/7/55 to 3/18/55	Research notebook	Excerpt From Research Notebook No. 1827
00019812	Alex Hlynsky			3/22/55 to 5/20/55	Research notebook	Excerpt From Research Notebook No. 1880
00019833, 00019839	Alex Hlynsky			5/55 to 4/58	Research notebook	Excerpts From Research Notebook No. 1947
00019848	A.J. Judge			6/17/57 to 8/23/57	Research notebook	Excerpt From Research Notebook No. 2782
00019873	George A. Miller			1/8/57 to 6/15/57	Research notebook	Excerpt From Research Notebook No. 2549
00019879	George A. Miller			6/13/57 to 8/14/57	Research notebook	Excerpt From Research Notebook No. 2778
00019888	George A. Miller			4/4/62 to 6/7/62	Research notebook	Excerpt From Research Notebook No. 4777
00019893	R.L. Urbanowski			5/3/62 to 4/8/65	Research notebook	Excerpt From Research Notebook No. 4903

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
1019946-48, 1019954	F.L. Curry			1/1/61 to 7/31/61	Research notebook	Excerpts From Research Notebook No. 4334
1020078	R. Steinkoenig			3/1/62 to 9/14/62	Research notebook	Excerpt From Research Notebook No. 4176
1020212	Joseph Budner			9/1/61 to 12/26/61	Research notebook	Excerpt From Research Notebook No. 4592
1020264	Richard E. Mackey			10/10/61 to 2/12/62	Research notebook	Excerpt From Research Notebook No. 4625
1020282	Gerald Schrag			8/15/72 to 3/30/73	Research notebook	Excerpt From Research Notebook No. 7976
0020375-76 0020390-93 0020395-96 0020398-401 0020403 0020407	B.A. Sprayberry			11/26/63 to 3/5/65	Research notebook	Excerpts From Research Notebook No. 5345

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0020413-15 0020418-19 0020424-25	B.A. Sprayberry			1/9/65 to 5/13/68	Research notebook	Excerpts From Research Notebook No. 5588
0020465, 0020468	Joe Synek J. Brennan			12/28/68 to 7/22/69	Research notebook	Excerpts From Research Notebook No. 6839
0020470	Joseph T. Brennan			1/29/70 to 11/11/70	Research notebook	Excerpt From Research Notebook No. 7173
0020477- 0020485	Joseph Budner			6/19/70 to 11/13/70	Research notebook	Excerpt From Research Notebook No. 7283
0020616	J.J. Browne	H.E. Everson	J.L. Fordham	4/28/67	Progress report	Semi-Works Progress Report April 1967
0020617- 0020625	J.J. Browne	H.E. Everson	J.L. Fordham G.G. Pirrone	3/9/67	Progress report & charts	Status Report - Semi-Works February, 1967

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020626- 00020633	J.J. Browne	H.E. Everson	J.L. Fordham G.G. Pirrone	2/8/67	Progress report & charts	Status Report - Semi-Works January, 1967
00020634- 00020642	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone	1/14/67	Progress report & charts	Status Report - Semi-Works December, 1966
00020643- 00020650						Duplicate of #00020626-00020633
00020651- 00020659						Duplicate of #00020634-00020642
00020660- 00020665	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone	12/9/66	Progress report & charts	Status Report - Semi-Works November, 1966
00020666- 00020672	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone	11/9/66	Progress report & charts	Status Report - Semi-Works October, 1966
00020673- 00020679	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl G.G. Pirrone A.B. Tillman	10/11/66	Progress report & charts	Status Report - Semi-Works September, 1966
00020680- 00020686	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl A.B. Tillman	4/11/66	Progress report & charts	Status Report - Semi-Works March, 1966

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020687- 00020692	J.J. Browne	H.E. Everson	J.L. Fordham A.G. Kridl A.B. Tillman	2/14/66	Progress report & charts	Status Report - Semi-Works January, 1966
00020693- 00020701		The Research Advisory Committee		5/7/63	Progress report	Consolidated Progress Report R & D Department April 1953
00020807- 00020817	C.L. Dunning	H.E. Everson	H.N. Benedict J. Coleman C.D. Hildebrecht J.J. Mannion R.A. Murie K.J. O'Leary I.E. Smiley D.E. Stallard R.L. Annis J.L. Fordham A.X. Hirsch D.E. Hudgin W.J. Lightfoot T.S. Perrin D.J. Porter P.H. Schuldt L.P. Seyb P.L. Slusser B. Wainio C.T. Cross D.M. Warburton E. Zinn R.G. Banner T.S. DeWoody G.B. Myers R.A. Springer	11/30/62	Progress report	Progress Report - Analytical Section August 1962 Thru October 1962

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020864- 00020875	C.L. Dunning	T.F. Holder	H.N. Benedict J.G. Coleman H.E. Everson C.D. Hildebrecht J.J. Mannion B. McNiff R.A. Murie K.J. O'Leary P.L. Slusser I.E. Smiley D.E. Stallard R.L. Annis A. Hirsch T.S. Perrin D.J. Porter G.F. Rugar N.V. Seeger L.P. Seyb Cross Warburton R.G. Banner J.A. Borrer T.S. DeWoody J.L. Fordham C.B. Myers R.A. Springer	5/5/60	Progress report	Progress Report - Analytical Section January thru April 1960

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00020876- 00020881	C.E. Entemann	R.L. Annis	R.A. Berkey C.M. Brown G.J. Disberger D.L. Edds H.E. Everson R.B. Lasco W.J. Lightfoot E.R. Osgood F.R. Pool G.A. Reott R. Steinkoenig Central File	10/15/62	Progress report	Laboratory Process Development - January-September 1, 1962
00020893- 00020903	C.E. Entemann	R.L. Annis	D.M. Black C.T. Cross G.J. Disberger H.E. Everson R.A. Jimenez P.C. Lang W.J. Lightfoot E.R. Osgood J.A. Resetar M.J. Skeeters F.B. Slezak R. Steinkoenig Central File	10/2/61	Progress report	July - September 1961

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
020910- 020912	H.E. Everson	G.G. Pirrone	J.L. Fordham	9/6/68	Progress report	Progress Report
020913- 020916	H.E. Everson	G.G. Pirrone	J.L. Fordham	3/3/67	Progress report	Research Progress Report February 1967
020952- 020956	A. Hlynsky	M.J. Skeeters		8/22/57	Progress report	July 1 - August 15, 1957
020957- 020960	A. Hlynsky	M.J. Skeeters		7/12/57	Progress report	June 1957
020961- 020964	A. Hlynsky	M.J. Skeeters		6/13/57	Progress report	April and May 1957
020973- 020977	A. Hlynsky	M.J. Skeeters		12/21/56	Progress report	Chlorinated Products Division Research Group November & December 1956
020988- 020990	A. Hlynsky	M.J. Skeeters		1/4/56	Progress report	December 1955

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0020991- 0020995	A. Hlynsky	M.J. Skeeters		11/30/55	Progress report	October and November 1955
0020996- 0020999	A. Hlynsky	M.J. Skeeters		10/5/55	Progress report	September 1955
0021000- 0021002	A. Hlynsky	M.J. Skeeters		8/29/55	Progress report	July and August 1955
0021024- 0021026	E.A. Lavergne	J.J. Dietrich	C.T. Cross R. Davis G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	7/31/73	Progress report	Process Development Progress Report July 1973
00021027- 00021029	E.A. Lavergne	J.J. Dietrich	C.T. Cross R. Davis H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	7/2/73	Progress report	Process Development Progress Report Second Quarter 1973
00021030- 00021032	E.A. Lavergne	J.J. Dietrich	C.T. Cross R. Davis H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	6/4/73	Progress report	Process Development Progress Report May 1973

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021033- 00021034	E.A. Lavergne	J.J. Dietrich	C.T. Cross R. Davis H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	4/30/73	Progress report	Process Development Progress Report April 1973
00021035- 00021037	E.A. Lavergne	J.J. Dietrich	C.T. Cross R. Davis H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	3/30/73	Progress report	Process Development Progress Report First Quarter 1973
00021038- 00021040	E.A. Lavergne	R.R. Irani	C.T. Cross R. Davis H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	2/27/73	Progress report	Process Development Progress Report February 1973
00021041- 00021043	E.A. Lavergne	R.R. Irani	C.T. Cross H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	1/29/73	Progress report	Process Development Progress Report January 1973

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021044- 00021046	E.A. Lavergne	R.R. Irani	C.T. Cross H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	1/4/73	Progress report	Process Development Progress Report Fourth Quarter 1972
00021047- 00021049	E.A. Lavergne	R.R. Irani	C.T. Cross H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	12/7/72	Progress report	Process Development Progress Report November 1972
00021050- 00021051	E.A. Lavergne	R.R. Irani	C.T. Cross H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	11/2/72	Progress report	Process Development Progress Report October 1972
00021052- 00021054	E.A. Lavergne	R.R. Irani	C.T. Cross H.E. Everson G.R. Hill C.R. Powell S. Puschaver T.E. Tinkler Central Files	10/5/72	Progress report	Process Development Progress Report September 1972

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021135- 00021136	J.J. Lukes	K.J. O'Leary	R.R. Irani E.A. Lavergne C.L. Sieglaff Central File	12/1/72	Progress report	1972-11
00021138- 00021139	J.J. Lukes	K.J. O'Leary	R.R. Irani Central File	10/5/72	Progress report	1972-9
00021170- 00021171	J.J. Lukes	R.C. Sutter		4/1/61	Progress report	Engineering Progress Report Chlorinated Products and Plastics Division (February & March 1961)
00021172- 00021173	J.J. Lukes	R.C. Sutter		2/1/61	Progress report	Engineering Progress Report Chlorinated Products and Plastics Division (December 1960 & January 1961)
00021178- 00021179	J.J. Lukes	K.J. O'Leary	R.R. Irani C.L. Sieglaff A.D. Babinsky Central File	2/21/73	Progress report	1973-2
00021180- 00021183	G.A. Miller	A. Hlynsky		6/6/57	Progress report	April & May 1957

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021210- 00021212	D.J. Porter	T.F. Holder	R.L. Annis Cross Warburton C.L. Dunning H.E. Everson A. Hirsch J.C. Noyes T.S. Perrin G.F. Rugar N.V. Seeger L.P. Seyb R.G. Banner T.S. DeWoody J.L. Fordham R.F. Lindemann C.B. Myers R.A. Springer	5/13/60	Progress report	Planning & Economics Group
00021294- 00021298	M.J. Skeeters	D.J. Porter		12/1/55	Progress report	October and November 1955
00021299- 00021303						Duplicate of #00020991-00020995
00021368- 00021370	E. Zinn	H.E. Everson	R.L. Annis D.M. Black C.T. Cross D.M. Warburton C.L. Dunning A. Hirsch D.E. Hudgin R.J. Koll W.J. Lightfoot J.C. Noyes D.J. Porter P.H. Schuldt L.P. Scribble L.P. Se	6/4/62	Progress report	Pilot Plant Preparation Reports

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021377- 00021378	E. Zinn	W.J. Lightfoot	R.L. Annis H.E. Everson R.J. Koll J.J. Lukes D.J. Porter F.J. Skala Central File	5/4/62	Progress report	Pilot Operations April 1962
00021390- 00021394	R. Battershell	H. Bluestone		2/13/61	Progress report	January-February 1961
00021395- 00021400	R.D. Battershell	H. Bluestone		1/6/61	Progress report	November-December 1960
00021412- 00021416	A.L. Galloway	G.F. Rugar	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb J.R. Trocki L.G. Utter R.L. Annis H. Bluestone C.L. Dunning C.B. Myers T.S. Perrin D.J. Porter N.V. Seeger I. Rosen	10/1/58	Progress report	Agricultural Chemicals Product Development August 16 - September 30, 1958

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021417- 00021422	A.L. Galloway	D.J. Porter	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb M.J. Skeeters J.R. Trocki L.G. Utter	8/18/58	Progress report	Agricultural Chemicals - Chlorinated Products Division July 1 - August 15, 1958
00021423- 00021428	A.L. Galloway	D.J. Porter	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb M.J. Skeeters L.G. Utter	6/30/58	Progress report	Agricultural Chemicals - Chlorinated Products Division May 16 - June 30, 1958
00021429- 00021433	A.L. Galloway	D.J. Porter	J. Burton T.F. Holder(3) J.O. King L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb M.J. Skeeters L.G. Utter	5/15/58	Progress report	Agricultural Chemicals - Chlorinated Products Division April 1 - May 15, 1958
00021434- 00021439						Duplicate of #00021423-00021428

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021440- 00021444						Duplicate of #00021429-00021433
00021559- 00021560	J. Synek	A.L. Galloway		1/22/69	Progress report	Monthly Report January 1969
00021562	J. Synek	A.L. Galloway		9/25/67	Progress report	Monthly Report September 1967
00021565	J. Synek	A.L. Galloway		9/21/66	Progress report	Monthly Report September 1966
00021566- 00021567	J. Synek	A.L. Galloway		4/25/66	Progress report	Monthly Report April 1966
00021568- 00021569	J. Synek	A.L. Galloway		3/24/66	Progress report	Monthly Report March 1966
00021570- 00021571	A. Whyte	W.A. Gallup	R.L. Cryberg W.A. Janz R.H. Lasco E.A. Lavergne Central Files	1/23/73	Progress report	January 1973

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021583- 00021590	L.G. Utter	D.J. Porter	J. Burton A.L. Galloway B.D. Gleissner T.F. Holder (3) J.O. King R.J. Koll L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb	4/9/58	Progress report	Progress Reports Agricultural Chemi- cals - Chlorinated Products Division February 16 - March 31, 1958
00021591- 00021600	L.G. Utter	D.J. Porter	J. Burton A.L. Galloway E.C. Gardes B.D. Gleissner T.F. Holder (3) R.J. Koll L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb	2/15/58	Progress report	Progress Reports Agricultural Chemi- cals - Chlorinated Products Division January 1 - February 15, 1958
00021601- 00021605	L.G. Utter	D.J. Porter	J. Burton A.L. Galloway B.D. Gleissner T.F. Holder (3) R.J. Koll L.J. Polite, Jr. P.H. Schuldt L.P. Scoville L.P. Seyb	12/31/57	Progress report	Progress Reports Agricultural Chemi- cals - Chlorinated Products Division November 16- December 31, 1957

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00021607	L.G. Utter	D.J. Porter		11/15/57	Progress report	Research Oct. 1 - Nov. 15, 1957
00022182	S.J. Kovacs			1/21/66	Typed form	Foreign Patent Activity
00023994- 00023995	E. Bak			1/12/66	Typed memo	Operating Comments Maintenance and Utilities December 1965
00024011- 00024012	E. Bak			12/8/65	Typed memo	Operating Comments Production and Technical November 1965
00024083	E. Bak			3/10/65	Typed memo	Operating Comments Plant Technical February 1965
00024088	E. Bak			2/9/65	Typed memo	Operating Comments Plant Technical January 1965
00024094	E. Bak			1/13/65	Typed memo	Operating Comments Plant Technical December 1964
00024114- 00024116	A.M. Hauser			9/8/64	Typed memo	Summary of Variances- August 1964 Ag. Chem. Div., Newark Plant

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00024126- 00024128	A.M. Hauser			7/7/64	Typed memo	Summary of Variances- June 1964 Ag. Chem. Div., Newark Plant
00024132- 00024134	A.M. Hauser			6/10/64	Typed memo	Summary of Variances- May 1964 Ag. Chem. Div., Newark Plant
00024145- 00024147	A.M. Hauser			3/11/64	Typed memo	Summary of Variances- March 1964 Ag. Chem. Div., Newark Plant
00024151- 00024152	R.F. Lindemann			3/10/64	Typed memo	Operating Comments Plant Technical February 1964
00024159- 00024160	R.F. Lindemann			2/10/64	Typed memo	Operating Comments Plant Technical January 1964
00024166- 00024167	R.F. Lindemann			1/7/64	Typed memo	Operating Comments Plant Technical December 1963

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MENT ERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
24651- 24653						Duplicate of #00017462-00017464
24654- 24656	F. Gordon Steward			11/12/69	Typed memo	Biochem. Div.- Newark Plant Operating Comments October 1969
24657- 24658						Duplicate of #00017466-00017467
24659- 24661	F. Gordon Steward			9/10/69	Typed memo	Biochem. Div.- Newark Plant Operating Comments August 1969
24662- 24664	A.M. Hauser				Typed memo	Summary of Variances July 1969 Biochem. Div. Newark Plant
24667- 24669	F. Gordon Steward			8/13/69	Typed memo	Operating Comments Plant Technical July 1969

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CUMENT MBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
024670- 024671	A.M. Hauser				Typed memo	Summary of Variances June 1969 Biochem. Div. Newark Plant
024673- 024676	F. Gordon Steward			7/9/69	Typed memo	Operating Comments Plant Technical June 1969
024683- 024687	F. Gordon Steward			6/69	Typed memo	Operating Comments Plant Technical May 1969
0024701	R. Chonoles			4/9/69	Typed memo	Operating Comments Production March 1969
0024703- 0024706	F. Gordon Steward			4/9/69	Typed memo	Operating Comments Plant Technical March 1969
0024713- 0024716	F. Gordon Steward			3/12/69	Typed memo	Operating Comments Plant Technical February 1969
0024717- 0024723	A.M. Hauser			2/12/69	Typed memo	Summary of Variances January 1969 Biochem. Div. Newark Plant

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00024724- 00024728	F. Gordon Steward			2/12/69	Typed memo	Operating Comments Plant Technical January 1969
00024786- 00024788	R. Light E. Prato			11/8/62	Typed chart	Daco Products- Newark Plant Weights & Containers
00024790	MR			12/63	Graph	Temperature- Viscosity Curves for 4# Dacamine Concentrates
00024794- 00024796	F.G. Steward	E. Bak	F.R. Kennedy	1/13/66	Typed memo	Monthly Report- December 1965
00024797- 00024799	F.G. Steward	E. Bak	F.R. Kennedy	12/8/65	Typed memo	Monthly Report- November 1965
00024827						Duplicate of #00014626

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00026948					Typed list	Specifications for Amine Formulations
00026993	MR			2/65	Typed spec sheet	2# Dacamine-D
00026994	MR			5/65	Handwritten spec sheet	2# Dacamine-T Brush Killer
00026995	MR			5/65	Handwritten spec sheet	1#-1# Dacamine-D/T Brush Killer
00026996	MR			2/65	Typed spec sheet	4# Dacamine-D
00026997	MR			5/65	Handwritten spec sheet	4# Dacamine-D Non-Emulsifiable Conc.
00026998	MR			2/65	Typed spec sheet	4# Dacamine-T

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00026999	MR			5/65	Handwritten spec sheet	4# Dacamine-T Non-Emulsifiable Conc.
00027000	MR			5/8/64	Typed spec sheet	4# Dacamine-TP
00027001	MR			5/65	Handwritten spec sheet	4# Dacamine-TP Non-Emulsifiable Conc.
00027002	MR			2/65	Typed spec sheet	2#-2# Dacamine-D/T
00027003	MR			5/8/64	Typed spec sheet	4# Dacamine MCP
00027004	MR			5/18/64	Typed spec sheet	Swift's Formula No. 2
00027012	R.G. Light R.F. Lindemann	F.R. Kennedy	W.E. Hill, Jr.	5/26/64	Typed chart pg. 2	Specifications

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027030	G.L. Pratt			6/13/67	Typed spec sheet	2.67# Butyl-D Weed Killer
00027031	G.L. Pratt			6/13/67	Typed spec sheet	3.34# Butyl-D Weed Killer
00027032	G.L. Pratt			6/13/67	Typed spec sheet	4# Butyl-D Weed Killer
00027033	G.L. Pratt			6/13/67	Typed spec sheet	6# Butyl-D Weed Killer
00027034	G.L. Pratt			6/13/67	Typed spec sheet	6# Butyl-D Weed Killer-Oil Soluble
00027035	G.L. Pratt			6/13/67	Typed spec sheet	4# Butyl-T Brush Killer
00027036	G.L. Pratt			6/13/67	Typed spec sheet	6# Butyl-T Brush Killer
00027037	G.L. Pratt			6/13/67	Typed spec sheet	2#/2# Butyl D-T Brush Killer

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027038	G.L. Pratt			6/13/67	Typed spec sheet	3.34# Isopropyl-D Weed Killer
00027039	G.L. Pratt			6/13/67	Typed spec sheet	3.34# Isopropyl-T Brush Killer
00027040	G.L. Pratt			6/13/67	Typed spec sheet	2#/2# Isopropyl D/T Brush Killer
00027041	G.L. Pratt			6/13/67	Typed spec sheet	2# 2-Ethyl Hexyl-D Weed Killer
00027042	G.L. Pratt			6/13/67	Typed spec sheet	2# 2-Ethyl Hexyl-D Weed Killer with Green Dye
00027043	G.L. Pratt			6/13/67	Typed spec sheet	2# 2-Ethyl Hexyl-D Weed Killer-Invert
00027044	G.L. Pratt			6/13/67	Typed spec sheet	4# 2-Ethyl Hexyl-D Weed Killer
00027045	G.L. Pratt			6/13/67	Typed spec sheet	4# Ethyl Hexyl-D Weed Killer

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027046	G.L. Pratt			6/13/67	Typed spec sheet	4# 2 Ethyl Hexyl-D Weed Killer-Invert Emulsion
00027047	G.L. Pratt			6/13/67	Typed spec sheet	6# 2-Ethyl Hexyl-D Weed Killer
00027048	G.L. Pratt			6/13/67	Typed spec sheet	2# 2# Ethyl Hexyl-T Brush Killer-Invert Emulsion
00027049	G.L. Pratt			6/13/67	Typed spec sheet	4# 2-Ethyl Hexyl-T Brush Killer
00027050	G.L. Pratt			6/13/67	Typed spec sheet	4# 2EH-T Brush Killer Special Hard Water Formulation
00027051	G.L. Pratt			6/13/67	Typed spec sheet	4# 2-Ethyl Hexyl-T Brush Killer-Oil Soluble
00027052	G.L. Pratt			6/13/67	Typed spec sheet	4# 2 Ethyl Hexyl-T Brush Killer-Invert Emulsion

DOCUMENT BERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
027053	G.L. Pratt			6/13/67	Typed spec sheet	6# 2-Ethyl Hexyl-T Brush Killer
027054	G.L. Pratt			6/13/67	Typed spec sheet	6# 2-Ethyl Hexyl-T Brush Killer-Oil Soluble
027055	G.L. Pratt			6/13/67	Typed spec sheet	6# 2 Ethyl Hexyl-T Brush Killer Special Hard Water Formulation
027056	G.L. Pratt			6/13/67	Typed spec sheet	1#/1# 2-Ethyl Hexyl- D/T Brush Killer
027058	G.L. Pratt			6/13/67	Typed spec sheet	Invert 1#/1# 2 Ethyl Hexyl-D/T Brush Killer
027059	G.L. Pratt			6/13/67	Typed spec sheet	1-1/3#-2/3# 2 Ethyl Hexyl-D/T
027060	G.L. Pratt			6/13/67	Typed spec sheet	1-1/3#-2/3# 2- Ethyl Hexyl-with Green Dye

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027062	G.L. Pratt			6/13/67	Typed spec sheet	1-1/3#-D/1/3#-T (2 EH) Plus 1/3# Silvex-T Brush Killer
00027064	G.L. Pratt			6/13/67	Typed spec sheet	2#/2# 2 Ethyl Hexyl-D/T Brush Killer
00027065	G.L. Pratt			6/13/67	Typed spec sheet	Invert 2#/2# 2 Ethyl Hexyl-D/T Brush Killer
00027066	G.L. Pratt			6/13/67	Typed spec sheet	2-2/3# - 1-1/3# 2-Ethyl Hexyl-D/T Brush Killer
00027067	G.L. Pratt			6/13/67	Typed spec sheet	3#/3# 2-Ethyl Hexyl-D/T Brush Killer
00027069	G.L. Pratt			6/13/67	Typed spec sheet	3#/3# 2-Ethyl Hexyl D/T Brush Killer Oil Soluble
00027070						Duplicate of #00000776

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0027071	G.L. Pratt			6/13/67	Typed spec sheet	4# DACAMINE, Weed Killer
0027072	G.L. Pratt			6/13/67	Typed spec sheet	4# DACAMINE, Brush Killer
0027073	G.L. Pratt			6/13/67	Typed spec sheet	2#/2# DACAMINE D/T Brush Killer
0027074	G.L. Pratt			6/13/67	Typed spec sheet	2# Dimethylamine-D
0027077	G.L. Pratt			6/13/67	Typed spec sheet	6# Dimethylamine-D Weed Killer (Crude)
0027078	G.L. Pratt			6/13/67	Typed spec sheet	4# Triethylamine-T Amine Weed Killer
0027079	G.L. Pratt			6/13/67	Typed spec sheet	2#/1# Amine D/T
0027081	G.L. Pratt			6/13/67	Typed spec sheet	2#/2# Amine D/T Brush Killer

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027082	G.L. Pratt			6/13/67	Typed spec sheet	Swift's Formula #2
00027083	G.L. Pratt			6/13/67	Typed spec sheet	Swift's Formula #2
00027084	G.L. Pratt			6/13/67	Typed spec sheet	4# Silvex Weed Killer
00027104	M. Rosenfeld	F.G. Steward	F.R. Kennedy J.R. Croxton	9/17/69	Typed memo	4" Alkanolamine-D Formulation & Notes
00027105					Handwritten sheet	4# Alkanolamine-D
00027139	MR			3/68	Handwritten specs	2# DMA-D
00027183				1/68	Typed cost sheet	4# Dimethylamine-D
00027184				1/68	Typed cost sheet	Crude 6# Dimethylamine-D

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027185				1/68	Typed cost sheet	4# T-Amines
00027186				1/68	Typed cost sheet	Swift Form #2
00027193				1/68	Typed cost sheet	4# Dacamine D
00027194				1/68	Typed cost sheet	2# 2# Dacamine D/T
00027195				1/68	Typed cost sheet	Singleshot
00027197				1/68	Typed cost sheet	2.67 Butyl D
00027198				1/68	Typed cost sheet	2.67# Butyl-D
00027199				1/68	Typed cost sheet	3.34# Butyl-D

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00027200				1/68	Typed cost sheet	6# Butyl-D O/S
00027201				1/68	Typed cost sheet	2# 2-EH-D
00027202				1/68	Typed cost sheet	4# 2-EH-D
00027203				1/68	Typed cost sheet	4# Butyl T
00027204				1/68	Typed cost sheet	3.34 Iso-T
00027205				1/68	Typed cost sheet	6# 2-EH-T
00027206				1/68	Typed cost sheet	4# Silvex Emul. Conc.
00027207				1/68	Typed cost sheet	2# 2# Butyl Brush Killer

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00027208				1/68	Typed cost sheet	1-1/3# - 2/3# 2EH Brush Killer
00027209				1/68	Typed cost sheet	1# 1# 2-EH Brush Killer
00027210				1/68	Typed cost sheet	3# 3# 2-EH Brush Killer
00027211				1/68	Typed cost sheet	2# 2-EH-T Invert B/K
00027212				1/68	Typed cost sheet	4# 2-EH-T Invert
00027215				2/68	Typed Interim Standard	1-1/3# - 1/3# 2EH D/T - 1/3# Silvex TP
00027975	RLS			9/10/69	Typed Data Sheet (Blank)	Dacthal Spraying Data Sheet
00030048					File folder cover	

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030049						Duplicate of #00015204
00030050						Duplicate of #00015222
00030051- 00030052						Duplicate of #00015220-00015221
00030053	R.A. Guidi	R.A. Remerscheid		2/9/66	Typed memo	DACAMINE Inventories
00030054	J.C. Kelly	R.L. Dezember W.W. Mosley E.G. Osborne J.P. McCabe W.A. Cunningham R.J. Orlik C.W. Feinberg W.H. Pierson J.E. Mitchell	J.O. King H.A. Branson	11/24/65	Typed memo	Warehouse Inventories of Herbicides
00030055	Bill				Handwritten note	Dacamine 4D
00030056	J.E. Mitchell	H.A. Branson	J.C. Kelly	12/7/65	Typed memo	American Warehouse Memorandum - Dacamine Formula- tions 11/24/65

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00030057	J.C. Kelly	J.P. McCabe R.L. Dezember E.G. Osborne J.E. Mitchell R.J. Orlik		1/7/66	Typed memo	Warehouse Inventory of DACAMINE
00030058	W.H. Lough- ridge Bel Chemical & Supply Co.	W.A. Cunningham		12/15/65	Typed letter	Dacamine Inventory
00030059	Bill Mosley	J.C. Kelly		12/16/65	Typed memo	Poston Warehouse Inventory of Dacamine
00030060	C. Feinberg	J.C. Kelly	J.O. King H.A. Branson	12/10/65	Typed memo	Warehouse Inventory of Dacamine Formu- lations
00030061	R.J. Orlik	J.C. Kelly		1/11/65	Typed memo	Allison Whse. Phoenix Dacamine Inventory
00030062	J.E. Mitchell	J.C. Kelly	H.A. Branson File	2/1/66	Typed memo	Dacamine Formula- tions in Lindsey Warehouse Salt Lake City
00030063	J.C. Kelly	R.A. Guidi	J.O. King	2/8/66	Typed memo	Union Whse.
00030064	J.O. King	J.S. Cort, Jr.		8/6/65	Typed memo	Dacamine Sales

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030065- 00030067						Duplicate of #00015345-00015346A
00030068						Duplicate of #00008970
00030069						Duplicate of #00015420
00030070	J.S. Cort, Jr.	R.A. Remerscheid	J.O. King F.R. Kennedy J.C. Kelly	2/25/64	Typed memo	DACAMINE Containers
00030071- 00030072	R.A. Remerscheid	J.S. Cort, Jr.	J.O. King F.R. Kennedy J.C. Kelly	2/20/64	Typed memo	Dacamines
00030073						Duplicate of #00015426
00030074- 00030075						Duplicate of #00015429
00030076	J.S. Cort, Jr.	R.A. Remerscheid	J.O. King M.F. Wilkerson	2/26/63	Typed memo	Dacamines

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00030077- 00030078	R.A. Remerscheid	J.S. Cort, Jr.	F.R. Kennedy J.O. King M.F. Wilkerson	12/24/63	Typed memo	Dacamine Formulations
00030079- 00030080					Typed chart	Dacamine Sales- 1963 - Des Moines, Plant
00030081	J.S. Cort, Jr.	R.A. Remerscheid	M.F. Wilkerson J.O. King	12/19/63	Typed memo	Dacamine Labels
00030082						Duplicate of #00015507
00030083						Duplicate of #00015494
00030084- 00030090						Duplicate of #00015495-00015501
00030091- 00030094						Duplicate of #00015502-00015505
00030095						Duplicate of #00015506

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030096- 00030097						Duplicate of #00009930-00009931
00030098- 00030103						Duplicate of #00009932-00009937
00030104- 00030105	T.O. Evrard R.J. Marrese			2/16/62	Typed report	<u>Dacamine: Oleic</u> <u>1,3 Propylene</u> <u>Diamine Salts of</u> <u>2,4-D and 2,4,5-T</u>
00030106					File folder cover	
00030107						Duplicate of #00015602
00030108- 00030109	Merle E. Engleka	J.P. McCabe	R.A. Bruckman R.A. Guidi	8/6/70	Typed memo	Work on 2-2 Dacamine for State Bid
00030110	F.G. Steward	J.P. McCabe	R.A. Guidi F.R. Kennedy M. Rosenfeld	9/19/69	Typed memo	Special Dacamine - ID/IT
00030111	M. Rosenfeld	R.F. Lindemann	F.R. Kennedy	9/12/63	Typed memo	Competitive Oil- Soluble Amine - D Formulations

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00030112						Duplicate of #00019395
00030113	R.A. Remerscheid	C.L. Troph	R.A. Guidi G.L. Pratt	4/3/69	Typed memo	Dacamine 4T Labels
00030114	R.A. Guidi	R. Chonoles	J.O. King R.A. Remerscheid	3/31/69	Typed memo	Old DACAMINE Formulations
00030115	RAG	JOK		3/28/69	Handwritten cover memo	Dacamine Formulations
00030116						Duplicate of #00015027
00030117- 00030119						Duplicate of #00017756-00017758
00030138						Duplicate of #00030056
00030139						Duplicate of #00030058

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
0030141						Duplicate of #00030060
0030142						Duplicate of #00030059
0030144						Duplicate of #00030062
0030146						Duplicate of #00030061
0030147						Duplicate of #00030063
0030149	R.A. Remerscheid	J.W. Daniel	E.L. Chandler R.A. Guidi J.O. King J.A. Latting G.A. Lawrence	7/23/68	Typed memo	Complaint DAC 249 - Dacamine 2D/2T
0030150	J.W. Daniel	J.O. King E.L. Chandler J.A. Latting G.A. Lawrence R.A. Remerscheid R.A. Guidi J.W. Daniel		7/8/68	Complaint Status Report	DACAMINE 2D/2T

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00030179	B.A. Sprayberry	E.L. Chandler	Paul W. Nadig R.A. Remerscheid R.A. Guidi R.L. Urbanowski	5/17/67	Typed memo	Crop Rider 80-WOW (Des Moines 5/5/67- 5/11/67) .
00030180- 00030181	B.A. Sprayberry	Paul N. Nadig	R.A. Remerscheid R.L. Urbanowski R.A. Guidi	3/16/67	Typed memo	80% Wetttable Powders of 2,4-D and 2,4,5-T
00030193- 00030196					Typed report	Monthly Inventory Ag Chem Division February 1972
00030197- 00030199					Typed report	Monthly Inventory Helena Chem. Co. January 1972
00030200- 00030202					Typed report	Monthly Inventory Helena Chemical Co. December 1971
00030203- 00030205					Typed report	Monthly Inventory Ag Chem Division November 1971

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030206- 00030208					Typed report	Monthly Inventory Ag Chem Division October 1971
00030209- 00030211					Typed report	Monthly Inventory Ag Chem Division September 1971
00030212- 00030214					Typed report	Monthly Inventory Ag Chem Division August 1971
00030215- 00030219					Typed report	Monthly Inventory Ag Chem Division April 1971
00030220	F.R. Kennedy	C.H. Gilbert		3/30/71	Typed memo	Des Moines Raw Material Inventory
00030221- 00030222					Typed report	Monthly Inventory Ag Chem Division August 1970
00030223- 00030224			R.A. Guidi J.O. King P. McCabe D. Brakman G. Rauch G. Laverance	2/12/70	Typed memo	Inventory - Des Moines Plant

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DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030225				11/69	Typed invoice	Ag Chem Division
00030226- 00030227	F.G. Steward	R.A. Remerscheid	F.R. Kennedy A.M. Hauser	12/1/69	Typed memo	Shipment to Des Moines
00030228	F.G. Steward	R.A. Remerscheid	F.R. Kennedy A.M. Hauser	10/1/69	Typed memo	Shipment to Des Moines
00030229	F.G. Steward	R.A. Remerscheid	F.R. Kennedy A.M. Hauser	10/15/69	Typed memo	Shipment to Des Moines
00030230- 00030235					Typed report	Monthly Inventory Biochemicals Division
00030236- 00030242				2/28/70	Typed report	Monthly Inventory Biochemicals Division
00030243- 00030249					Typed report	Inventory/Budget
00030250- 00030255					Typed report	Monthly Inventory Biochemicals Division September 1969

DOCUMENT NUMBERS	AUTHOR	ADDRESSEE	COPIES (CC)	DATE	TYPE DOCUMENT	SUBJECT
00030256	C.T. Baldanza	L.E. Rauch	W.H. Bricker W.J. Byrne C.H. Gilbert R.A. Guidi J.O. King R.A. Remerscheid	10/8/69	Typed memo	Final Production Levels - 1970 Budget
00030257- 00030262				8/31/69	Typed report	Monthly Inventory Biochemicals Division August 1969
00030344	R.A. Guidi	G.A. Lawrence	M.E. Engleka R.A. Bruckman H.A. Branson R.E. Gilmore J.P. McCabe	7/17/70	Typed memo	Dacamine/Silvex Formulation
00030346	M. Engleka	R.A. Guidi	G.D. Munger G.A. Lawrence H.A. Branson R.A. Bruckman	7/17/70	Typed memo	DACAMINE/Silvex Formulation
00030347	R.A. Guidi	M.E. Engleka	G.D. Munger G.A. Lawrence H.A. Branson R.A. Bruckman	6/9/70	Typed memo	DACAMINE/Silvex Formulation

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