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4 Attorneys for Defendant
5 FORD MOTOR COMPANY
6
7

8 SUPERIOR COURT OF THE STATE OF CALIFORNIA
9 IN AND FOR THE COUNTY OF SAN FRANCISCO
10

11 IN RE COMPLEX ASBESTOS
12 LITIGATION,

No. 828684

13 SECOND AMENDED
14 SUPPLEMENTAL RESPONSES OF
15 FORD MOTOR COMPANY TO
GENERAL ORDER 129 STANDARD
INTERROGATORIES TO FRICTION
DEFENDANTS

16 PROPOUNDING PARTIES.

PLAINTIFFS

17 RESPONDING PARTY:

FORD MOTOR COMPANY

18 SET NUMBER:

19 GENERAL ORDER NUMBER 129 STANDARD
INTERROGATORIES TO FRICTION DEFENDANTS

20 COMES NOW Defendant FORD MOTOR COMPANY, hereinafter ("Ford") and
21 hereby submits these Amended Supplemental Responses of Ford to General Order 129
22 Standard Interrogatories To Friction Defendants.

23 INTERROGATORIES

24 INTERROGATORY NO. 1

25 IDENTIFY the individual verifying these answers on YOUR behalf.

26 ///

27 ///

28 HARDIN, COOK, LOPER,
ENGEL & BERGEZ, LLP
1999 Harrison Street
Eighteenth Floor
Oakland, CA 94612 3541
FAX (510) 839-7940
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1 **RESPONSE:**

2 Without waiving the objections stated below, Ford states that the responses to these
3 interrogatories constitute a corporate response which has been verified by an authorized agent
4 of Ford. The person signing these responses is an employee of Ford who is an authorized
5 agent for the purpose of verifying discovery responses. That person works at Three Parklane
6 Boulevard, Dearborn, Michigan 48126. For that person's name, please refer to the
7 verification page. Ford requests that any contact be made through Ford's counsel.

8 To the extent this interrogatory seeks an additional or different response, Ford objects
9 on the grounds that it seeks information protected by the attorney-client privilege or attorney-
10 work product doctrine.

11 **INTERROGATORY NO. 2**

12 State the date of first employment with YOU and the dates and titles of each job
13 position the person who verified these interrogatories has held while employed by YOU.

14 **RESPONSE:**

15 Without waiving the objections stated below, Ford states that the responses to these
16 interrogatories constitute a corporate response which has been verified by an authorized agent
17 of Ford. The person signing these responses is an employee of Ford who is an authorized
18 agent for the purpose of verifying discovery responses. That person works at Three Parklane
19 Boulevard, Dearborn, Michigan 48126. For that person's name, please refer to the
20 verification page. Ford requests that any contact be made through Ford's counsel.

21 To the extent this interrogatory seeks an additional or different response, Ford objects
22 on the grounds that it seeks information protected by the attorney-client privilege or attorney-
23 work product doctrine.

24 **INTERROGATORY NO. 3**

25 State whether or not YOU are a corporation and, if so, state:

- 26 A. YOUR correct corporate name;
27 B. YOUR state of incorporation;
28 C. The date of YOUR incorporation;

D. The address of YOUR principal place of business.

E Whether or not YOU have ever held a certificate of authority to do business in the State of California and, if so, the inclusive dates of any certificate,

F If YOU are wholly owned or the majority interest of YOUR COMPANY is owned by another business entity, state the entity's name and principal place of business;

G. Whether YOU have any business offices in California and, if so, YOUR principal place of business in California.

RESPONSE:

Yes.

(a) Ford Motor Company.

(b) Ford is a Delaware corporation.

(c) Ford was incorporated in the State of Delaware on July 9, 1919

(d) Ford's principal place of business is One The American Road, Dearborn, Michigan 48126.

(e) Ford was qualified to conduct business in the State of California on April 16, 1920.

(f) Not applicable.

(g) Ford has business offices in the State of California However, Ford's principal place of business in One The American Road, Dearborn, Michigan 48126.

INTERROGATORY NO. 4:

Have YOU ever been identified, known or done business under any other name in the State of California?

RESPONSE:

No.

INTERROGATORY NO. 5

If YOUR answer to Interrogatory No. 4 is in the affirmative, please state such name or names and the time period during which THIS DEFENDANT was so known or identified.

1 RESPONSE:

2 Not applicable

3 INTERROGATORY NO. 6

4 If YOU are not a corporation, what is YOUR business structure (partnership, joint
5 venture, sole proprietorship, etc)

6 RESPONSE:

7 Not applicable

8 INTERROGATORY NO. 7

9 If YOU are not a corporation, please IDENTIFY all persons or other entities with an
10 ownership interest in YOU.

11 RESPONSE:

12 Not applicable.

13 INTERROGATORY NO. 8

14 If YOU are not a corporation, please state the following:

15 A. The address where the HISTORICAL RECORDS of THIS DEFENDANT are
16 currently located; and

17 B. The name, job title and current address of the custodian for THIS
18 DEFENDANT'S HISTORICAL RECORDS.

19 As used herein, "HISTORICAL RECORDS" shall include all DOCUMENTS relating
20 to the formation of THIS DEFENDANT, all minutes of partners', general partners' or other
21 owners' meetings and all DOCUMENTS relating to THIS DEFENDANT'S merger with,
22 acquisition of or purchase or sale of or by any other COMPANY.

23 RESPONSE:

24 Not applicable.

25 INTERROGATORY NO. 9

26 IDENTIFY YOUR custodian of Business Records.
27

1 **RESPONSE:**

2 Ford objects to this interrogatory on the grounds that it seeks information in violation
3 of attorney-client and attorney work product privileges

4 **INTERROGATORY NO. 10**

5 IDENTIFY the person or persons most knowledgeable about:

6 A. YOUR acquisition of RAW ASBESTOS and/or ASBESTOS-CONTAINING
7 FRICTION PRODUCTS,

8 B. YOUR use of RAW ASBESTOS and/or ASBESTOS-CONTAINING
9 FRICTION PRODUCTS;

10 C YOUR contracting with others to do work involving use or handling of RAW
11 ASBESTOS or ASBESTOS-CONTAINING FRICTION PRODUCTS.

12 **RESPONSE:**

13 Without waiving any of the objections stated below, Ford states that it has not mined,
14 processed or manufactured asbestos-containing friction products. Ford sold replacement
15 parts which included asbestos-containing brake linings, pads and clutch facings under names
16 such as Ford, Mercury, Ford Authorized Remanufacturers, and under various lines and
17 series names such as Motorcraft. No one person was responsible for "creating, directing, or
18 setting the policy" at Ford with regard to asbestos-containing friction products. However,
19 Mr. Frederick King, a Ford Design Analysis engineer, is generally knowledgeable regarding
20 asbestos-containing friction products.

21 To the extent that this interrogatory seeks an additional or different response, Ford
22 objects on the grounds that it calls for information protected by the attorney-client, attorney
23 work product and/or trade secret privileges.

24 **INTERROGATORY NO. 11**

25 For DEFENDANTS involved in the MARKETING of ASBESTOS-CONTAINING
26 FRICTION PRODUCTS, state the IDENTITY of physicians, medical directors and/or
27 industrial hygienists employed by THIS DEFENDANT. All other DEFENDANTS need
28 only respond as to medical directors and/or industrial hygienists or physicians employed in

the area of employee health and safety. PREMISES owners and domestic corporations need only respond as to the United States only

RESPONSE:

Without waiving the objections below, Ford states that it has employed medical directors as part of the Staff to monitor the health and safety of the employees. They are located in Dearborn, Michigan. They have been:

Harley Krieger, M.D. ? to 1954; now deceased;

E.A. Irvin, M.D. 1954 to 1970. now deceased;

Duane L. Block, M.D. : 1970 to 1987; and

John Triebwasser, M.D.: 1987 to present.

Ford further states that Industrial Hygiene, a function of Ford's Employee Relations Staff, has employed approximately forty industrial hygienists in the past forty-five years. In general, all forty individuals were classified as industrial hygienists with responsibility to perform industrial hygiene field studies only at Ford locations. The names of the forty individuals are presented below in two groups - those presently employed and those who have left Ford. Credentials and dates of employment will be listed where known.

Present Industrial Hygienists

D. S. Carruthers, B.S., M.S.

Occ & Env Health, CIH

L. Lattore, B.S., M.S.

Industrial Hygiene, CIH, CSP, 1976

H. B. Lick, B.A., M.B.A., M.S.

Occ & Env Health, CIH, CSP, 1968

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1	S S. Mungela, B.S., M.S.	
2	Occ & Env Health. CIH, CSP, 1977	
3		
4	M D Kelly, B S., CIH	
5		
6	T.F. Strow, B.S., M.S , CIH	
7		
8	P A. Brogan, M.S.	
9	Occ & Health, CIH	
10		
11	D Hands, M.S., CIH	
12		
13	Past Industrial Hygienists	
14		
15	R -Anderson 1960s	L. Parrish 1978-81
16	E. Brown 1960s	W. Preston
17	N Brush 1972-77	S. Rabinovitz 1970s
18	W. Delhey 1950s	J. Radcliff fm. Mgr., 1948-72
19	H. Dryer 1978-80	L. Redmond 1950s
20	D. Eschelbach 1950s	E. Ross 1950s
21	A. Frazho 1960s	J. Sattelmeier 1960s
22	L. Jenson 1960s	J. Slosar 1960s
23	A. Karpowich 1978-80	F. Snitz 1960s
24	R. Kersten 1977	J Sproat 1977
25	W. Kronberger	J. Stanko 1973
26	T Mooney 1930	R. Stites 1940s
27	M. O'Brien 1977-81	P. Toth, fm. Mgr. 1960-82
28	D Padden 1930s	J. Ware 1960s

1 D Greschaw 1956-80s R Wabeke. fmr Mgr.. 1970s-1980s

2 C Plasters 1960s-80s

3 K Swaney 1980s

4

5 **INTERROGATORY NO. 12**

6 Has any employee of THIS DEFENDANT testified by deposition or at trial on behalf
7 of THIS DEFENDANT in a third-party case, in which THIS DEFENDANT was a party,
8 wherein the plaintiff has alleged an asbestos-related injury? If so, for each such third-
9 party case please state:

- 10 A. The caption and case number;
11 B The court filing including state and county,
12 C The date of deposition or trial testimony;
13 D. The name and address of plaintiffs counsel of record,
14 E. The name and address of the court reporter.

15 **RESPONSE:**

16 Ford states that it does not maintain a list of individuals who have been deposed in
17 asbestos litigation. Furthermore, Ford's records do not reasonably permit it to identify each
18 and every present or former employee who may have been deposed in connection with
19 asbestos litigation. Ford does state, however, that Mr. Arnold Anderson, P.O. Box 2008,
20 Livonia, Michigan, and Mr. Jack Ridenour, Ford Motor Company, c/o Office of the General
21 Counsel, Parklane Towers West, Three Parklane Boulevard, Suite 300, Dearborn, Michigan,
22 have rendered both deposition and trial testimony on behalf of Ford in asbestos related
23 litigation.

24 **INTERROGATORY NO. 13**

25 For each of the following, please state whether THIS DEFENDANT has ever been a
26 member or paid dues for any representative of THIS DEFENDANT to be a member of the
27 following (please answer to the present):

- 28 A. American Conference of Governmental Industrial Hygienists;

- 1 B. American Industrial Hygiene Association;
2 C. American Petroleum Institute,
3 D. American Railroad Association,
4 E. Asbestos Cement Producers Association,
5 F. Asbestos Information Association (AIA);
6 G. Asbestos Information Association/North America (AIA/NA),
7 H. Asbestos Textile Institute (ATI),
8 I. Industrial Hygiene Foundation and/or Industrial Health Foundation (IHF);
9 J. Industrial Mineral Insulation Manufacturers Institute,
10 K. Magnesia Insulation Manufacturers' Association;
11 L. Magnesia Silica Insulation Manufacturers Association;
12 M. Mineral Wool Institute;
13 N. National Insulation Manufacturers Association (NIMA);
14 O. National Safety Council;
15 P. New York Academy of Sciences;
16 Q. Quebec Asbestos Mining Association (QAMA);
17 R. Refractories Institute;
18 S. Safe Building Alliance;
19 T. Thermal Insulation Manufacturers Association (TIMA);
20 U. U.S. Maritime Commission;
21 V. IDENTIFY any other organizations, associations or groups of manufacturers,
22 miners, distributors, importers, labelers, suppliers and/or sellers of RAW ASBESTOS and/or
23 ASBESTOS-CONTAINING FRICTION PRODUCTS of which THIS DEFENDANT was a
24 member;
25 W. IDENTIFY any such representative of THIS DEFENDANT

26 **RESPONSE:**

27 Ford and/or its employees have had memberships in the American Society for Testing
28 and Materials, Society of Automotive Engineers and the American Industrial Hygiene

1 Association. Ford also had a membership in the Industrial Health Foundation, formerly
2 known as the Industrial Hygiene Foundation, from January 1947 through December 1974
3 However, Ford cannot reasonably identify all employees who are or who may have
4 memberships in these organizations

5 Ford presently is a member of the National Association of Manufacturers, 1176 F
6 St., N.W., Washington, D. C. 20006; Michigan Manufacturers Association; Motor Vehicle
7 Manufacturers Association, 300 New Center Building, Detroit, Michigan 48202, and the
8 National Safety Counsel, 444 N Michigan Ave., Chicago, Illinois 60611

9 It has been reported by representatives of these respective organizations that there is
10 no record of Ford's' membership in these following organizations: Institute of Occupational
11 & Environmental Health, Quebec Asbestos Mining Association, Brake Lining Manufacturers
12 Association, Friction Materials Standards Institute, Grinding Wheel Institute, Asbestos Tile
13 Institute, Asbestos Information Association, Trudeau Foundation, Asbestos Brake Lining
14 Manufacturers Institute.

15 **INTERROGATORY NO. 14**

16 For each organization, association or other entity identified in YOUR response to
17 Interrogatory No. 13, please state:

18 A. The dates during which THIS DEFENDANT was a member;

19 B. The name(s) of any publication(s) received by THIS DEFENDANT from such
20 association or organization;

21 C. The name of any committee or subcommittee of which THIS DEFENDANT
22 was a member and the dates of such committee or subcommittee membership.

23 **RESPONSE:**

24 Ford refers to and incorporates herein its response to Interrogatory No. 13.

25 **INTERROGATORY NO. 15**

26 Had THIS DEFENDANT prior to 1973 received any DOCUMENTS containing
27 results or conclusions of any studies and/or tests conducted by Bonsib for Standard Oil of

1 New Jersey relating to asbestos exposure in the workplace or the human health consequences
2 of exposure to asbestos? If so

3 A Either attach all DOCUMENTS or disks containing such data, evidencing the
4 information sought in this interrogatory and its subparts to YOUR answers to these
5 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
6 made the subject of a request for production of documents.

7 B. State the date upon which THIS DEFENDANT first received such
8 DOCUMENTS,

9 C. State the IDENTITY of the custodian of such DOCUMENTS;

10 D This interrogatory does not apply to DOCUMENTS contained in a library
11 maintained by a DEFENDANT hospital or a DEFENDANT's library providing access to the
12 general public.

13 RESPONSE:

14 No.

15 INTERROGATORY NO. 16

16 Had THIS DEFENDANT prior to 1973 received a copy or any portion of any studies
17 and/or tests conducted by any insurance company, including but not limited to Metropolitan
18 Life Insurance Company and Aetna Insurance relating to asbestos exposure in the
19 workplace or the human health consequences of exposure to asbestos? If so:

20 A. Either attach all DOCUMENTS or disks containing such data, evidencing the
21 information sought in this interrogatory and its subparts to YOUR answers to these
22 interrogatories, or describe such DOCUMENTS with sufficient particularity that they
23 may be made the subject of a request for production of documents;

24 B. State the date upon which THIS DEFENDANT first
25 received such DOCUMENTS;

26 C State the IDENTITY of the custodian of such DOCUMENTS;
27

1 D. This interrogatory does not apply to DOCUMENTS contained in a library
2 maintained by a DEFENDANT hospital or a DEFENDANT'S library providing access to the
3 general public

4 **RESPONSE:**

5 No.

6 **INTERROGATORY NO. 17**

7 Had THIS DEFENDANT prior to 1973 received any DOCUMENTS containing
8 results or conclusions of any studies and/or tests conducted by any laboratory, including but
9 not limited to the Saranac Laboratory relating to asbestos exposure in the workplace
10 or the human health consequences of exposure to asbestos? If so

11 A. Either attach all DOCUMENTS or disks containing such data, evidencing the
12 information sought in this interrogatory and its subparts to YOUR answers to these
13 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
14 made the subject of a request for production of documents;

15 B. State the date upon which THIS DEFENDANT first received such
16 DOCUMENTS;

17 C. State the IDENTITY of the custodian of such DOCUMENTS,

18 D. This interrogatory does not apply to DOCUMENTS contained in a library
19 maintained by a DEFENDANT hospital or a DEFENDANT's library providing access to the
20 general public.

21 **RESPONSE:**

22 No.

23 **INTERROGATORY NO. 18**

24 State whether THIS DEFENDANT has ever maintained a library (or libraries) which
25 contains books, articles, periodicals, journals and/or reference materials that relate to the
26 subjects of asbestos, industrial hygiene, medicine, safety and/or occupational disease. If so,
27 state:

28 A. The date each such library was established;

1 B. The location of each such library,

2 C The IDENTITY of each librarian or other person in charge of such library.

3 RESPONSE:

4 Libraries are maintained in Ford's medical, industrial hygiene, toxicology, and health
5 surveillance functional activities in Dearborn, Michigan. Among the items in these libraries
6 there surely are journals, books, and other publications with references to asbestos. There is
7 no specific depository solely dedicated to the topic of asbestos.

8 The following journals, among others, were subscribed to at some time during the
9 period from 1928 to the present by Ford medical and health activities: Industrial Health

10 Industrial Medicine & Surgery

11 Journal of Occupational Medicine

12 Journal of American Medical Association

13 Archives of Environmental Health

14 British Journal of Industrial Medicine

15 Annals of Occupational Hygiene

16 Journal of American Industrial Hygiene Association

17 The following journals, among others, were subscribed to at some time by industrial
18 hygiene interests:

19 Archives of Environmental Health

20 American Industrial Hygiene Journal

21 Industrial Hygiene and Toxicology

22 British Journal of Industrial Medicine

23 The Annals of Occupational Hygiene

24 Some health information relative to asbestos is maintained at the Industrial Hygiene
25 and Employee Health Department.

26 / / /

27 / / /

28 / / /

1 INTERROGATORY NO. 19

2 With the exception of OSHA compliance, had THIS DEFENDANT prior to 1980
3 exchanged DOCUMENTS or communicated with any individual or other COMPANY
4 expressly regarding the results of tests and/or studies relating to asbestos exposure in the
5 workplace or the human health consequences of exposure to asbestos? If so, state.

6 A. Each individual or COMPANY with whom the information was exchanged or
7 to whom it was communicated,

8 B. The date(s) of any such exchanges or communications;

9 C. The IDENTITY of the custodian of such DOCUMENTS.

10 RESPONSE:

11 In the early 1970's Arnold Anderson and Roy Gealer of Ford's Scientific Research
12 Staff conducted tests to determine the quantity of asbestos fibers liberated from brake linings
13 during the braking process. They concluded that over 99 98% of the asbestos fibers in brake
14 linings decomposed during the braking process into other materials Their results were
15 published in 1973.

16 In addition, Ford states that commencing in the early 1970's, Ford participated in and
17 provided partial funding for studies done by Dr. Irving Selikoff and others at what is now
18 the Mt. Sinai School of Medicine in New York, which work was reported on in a paper
19 entitled Asbestos Exposure During Brake Lining and Maintenance and Repair, published in
20 "Environmental Research", Vol. 112, pp. 110-128 (1976). The work done was a study of
21 the environmental pollution, if any, caused by asbestos in brake linings. The study came to
22 focus on the occupational exposure of mechanics during brake repair and maintenance
23 Ford's Research and Engineering Department and Industrial Hygiene Department were
24 advised of the study. The 1976 publication acknowledges the support received from Ford.

25 In 1973, Ford's Industrial Hygiene Department conducted air sampling tests on brake
26 linings being cleaned by brake mechanics using air hoses They determined that asbestos
27 levels were well below existing or proposed O.S.H.A. standards. This testing was

1 done by Mr. Anderson and Henry Lick, under the supervision of Paul Toth, the then
2 manager of Industrial Hygiene Ford notes that there exists today no medical or scientific
3 evidence that establishes risks associated with exposure to Ford's friction products

4 INTERROGATORY NO. 20

5 Has any employee or designee of THIS DEFENDANT testified on behalf of THIS
6 DEFENDANT before the Occupational Safety and Health Administration, the National
7 Institute of Occupational Health and Safety or any committee or subcommittee of the United
8 States Congress relating to asbestos exposure in the workplace or the human health
9 consequences of exposure to asbestos? If so, please state:

- 10 A. The entity before whom such testimony was given;
11 B. The date(s) and location(s) of such testimony;
12 C. The IDENTITY of the individual(s) who so testified;
13 D. Whether any DOCUMENTS were presented to the entity before which
14 testimony was given;
15 E. Whether copies of DOCUMENTS presented were retained by THIS
16 DEFENDANT and, if so, state the IDENTITY of the custodian of such DOCUMENTS

17 RESPONSE:

18 No.

19 INTERROGATORY NO. 21

20 Has THIS DEFENDANT conducted or caused to be conducted, tests and/or studies of
21 asbestos dust created during the manufacture, processing and/or assembling for sale of
22 ASBESTOS-CONTAINING FRICTION PRODUCTS? If so, state:

- 23 A. Each manufacturing facility, including location and address, at which any such
24 test and/or study was conducted;
25 B. The date of each such test and/or study;
26 C. The individual(s) or entity conducting each such test and/or study;
27 D. Whether THIS DEFENDANT has any DOCUMENTS containing the results
28 and/or conclusions of each such study;

1 E. The IDENTITY of the custodian of such DOCUMENTS

2 RESPONSE:

3 Ford refers to and incorporates herein its response to Interrogatory No. 19

4 INTERROGATORY NO. 22

5 Has THIS DEFENDANT conducted or caused to be conducted, any tests and/or
6 studies on ambient asbestos dust levels at any location or job site where
7 ASBESTOS-CONTAINING FRICTION PRODUCTS were installed, utilized or removed? If
8 so, for the first five tests and/or studies, state:

9 A. The location, including name and address, at which each such test and/or study
10 was conducted;

11 B. The individual(s) or entity conducting each such test and/or study;

12 C. The date of each such test and/or study;

13 D. Whether THIS DEFENDANT has any DOCUMENTS containing the results
14 and/or conclusions of each such test and/or study;

15 E. The IDENTITY of the custodian of such DOCUMENTS.

16 RESPONSE:

17 Ford refers to and incorporates herein its response to Interrogatory No. 19.

18 INTERROGATORY NO. 23

19 Did THIS DEFENDANT have any laboratory or other similar type of facility
20 anywhere in the United States at which it conducted or caused to be conducted, any tests
21 and/or studies of ASBESTOS-CONTAINING FRICTION PRODUCTS or RAW ASBESTOS
22 relating to the health consequences of asbestos or the dust generated by any use
23 of asbestos or ASBESTOS-CONTAINING FRICTION PRODUCTS. If so, state:

24 A. The location, including name and address, at which each test and/or study was
25 conducted;

26 B. The individual(s) or entity conducting each such test and/or study;

27 C. The date of each such test and/or study;

28

1 D Whether THIS DEFENDANT has any DOCUMENTS containing the results
2 and/or conclusions of each such test and/or study.

3 E. The IDENTITY of the custodian of such DOCUMENTS

4 **RESPONSE:**

5 In addition to the Mt Sinai research identified in Ford's response to Interrogatory
6 No. 19, a great many hours were spent by Ford employees assisting, consulting with and
7 supplying the Mt Sinai researchers with ideas, comments and materials Dr Selikoff's 1976
8 article discussing the potential health effects of brake linings expressly acknowledges the
9 support and assistance he received from Ford.

10 **INTERROGATORY NO. 24**

11 Has THIS DEFENDANT made available to its employees a medical examination
12 program to determine the absence or presence of asbestos-related disease? If so, state:

13 A. Whether chest x-rays or pulmonary function tests were part of such
14 program(s);

15 B. Whether participation in any such program was a mandatory condition of
16 employment or was voluntary;

17 C. Whether THIS DEFENDANT has DOCUMENTS of such program(s);

18 D The IDENTITY of the custodian of such DOCUMENTS.

19 **RESPONSE:**

20 Ford maintains medical facilities at its plants and facilities to treat ill or injured
21 employees for all medical complaints or refers them elsewhere for appropriate medical care.

22 **INTERROGATORY NO. 25**

23 Prior to 1973, did any person file a Workers' Compensation claim for asbestos-related
24 injury against THIS DEFENDANT or any Workers' Compensation carrier for THIS
25 DEFENDANT which provided coverage for THIS DEFENDANT? If so, state the total
26 number of such claims and, for the first 20 such claims, state:

27 A The date of such claim;

28 B. The name of the claimant;

- 1 C The case number,
2 D The court in which the claim was filed,
3 E The IDENTITY of THIS DEFENDANT's custodian of DOCUMENTS
4 evidencing such claims.

5 **RESPONSE:**

6 Ford's records do not permit retrieval of specific information requested by this
7 interrogatory because alleged injuries are described in general terms such as lungs, chest,
8 back, silicosis, bronchitis, emphysema, pneumoconiosis, cough, pulmonary system, etc ,
9 resulting from exposure to "deleterious substances" or "atmospheric pollutants." It is
10 impossible to ascertain from these records whether or not the alleged injury was associated
11 with asbestos exposure Furthermore, because of the differences in occupational exposure,
12 the information sought would not be relevant to the claims asserted herein.

13 **INTERROGATORY NO. 26**

14 Does THIS DEFENDANT have insurance available to cover judgment(s) entered
15 against it in asbestos-related personal injury lawsuits? If so, state:

- 16 A. The name and principal place of business of any insurance carrier who has
17 issued such policy of insurance,
18 B. The number and effective date of each policy;
19 C. ---The amount(s) of coverage of each policy;
20 D. The applicable dates of coverage.

21 **RESPONSE:**

22 Ford is essentially self-insured for amounts in excess of a reasonable jury award for
23 the damages claimed in this lawsuit. Any judgment rendered against Ford would be satisfied
24 from its assets

25 **INTERROGATORY NO. 27**

26 State whether YOU have controlled, purchased or in any way acquired a controlling
27 interest in any corporation or business entity which has mined, manufactured, produced,
28 processed, compounded, sold, supplied, distributed and/or otherwise placed RAW

1 ASBESTOS or ASBESTOS-CONTAINING FRICTION PRODUCTS in the stream of
2 commerce If so, state

- 3 A. The name and address of said corporation or business entity,
4 B The dates YOU controlled, purchased or acquired any interest;
5 C. The nature of the business as it pertains to asbestos.

6 **RESPONSE:**

7 No

8 **INTERROGATORY NO. 28**

9 If THIS DEFENDANT entered into any agreements for the rebranding of any
10 ASBESTOS-CONTAINING FRICTION PRODUCTS by THIS DEFENDANT for resale or
11 distribution by another person or entity, describe each agreement's terms and the parties to
12 said agreement, the duration of the agreement and the name of each product(s) and/or
13 material(s) covered by each such agreement.

14 **RESPONSE:**

15 Assuming that this interrogatory asks whether Ford sells any asbestos-containing
16 friction products to others for resale, Ford responds that it engaged in the sale of
17 asbestos-containing brake and clutch service replacement parts. Ford purchases brake and
18 clutch assemblies from suppliers and markets them as new products under the Ford logo.
19 The remanufactured product is produced by "Authorized" remanufacturers who either buy
20 components directly from Ford or use "Ford Quality" components purchased elsewhere.
21 These products are marketed under the name of Ford Authorized Remanufacturers.

22 **INTERROGATORY NO. 29**

23 If THIS DEFENDANT entered into any agreements for the rebranding of
24 ASBESTOS-CONTAINING FRICTION PRODUCTS manufactured, sold, supplied or
25 distributed by another person or entity for resale or distribution by YOU, describe each of
26 the agreements and the parties to said agreement, the terms, the duration and the names of
27 each product(s) and/or material(s) covered by each such agreement.

28 / / /

1 **RESPONSE:**

2 Ford refers to and incorporates herein its response to Interrogatory No 28

3 **INTERROGATORY NO. 30**

4 Between the years 1930 and 1985, did YOU purchase or otherwise acquire any
5 ASBESTOS-CONTAINING FRICTION PRODUCT lines from another person or entity? If
6 so, state for each such purchase:

7 A. Date of purchase or acquisition;

8 B Terms of purchase or acquisition agreement;

9 C. Either attach all DOCUMENTS or disks containing such data, evidencing said
10 acquisition, or describe such DOCUMENTS with sufficient particularity that they may be
11 made the subject of a request for production of documents;

12 D. Trade, brand and/or genetic name of each such product line so acquired,

13 E. Name of the person or entity from whom YOU purchased or acquired each
14 such ASBESTOS-CONTAINING FRICTION PRODUCT line;

15 F. Location of any manufacturing facilities so acquired and the type of
16 ASBESTOS-CONTAINING FRICTION PRODUCTS manufactured therein.

17 **RESPONSE:**

18 Ford will produce a historical list revised as of May 1, 1995, of some suppliers to
19 Ford of some brake linings and assemblies.

20 **INTERROGATORY NO. 31**

21 Between the years 1930 to 1985, did YOU sell any ASBESTOS-CONTAINING
22 FRICTION PRODUCT line to another person or entity? If so, state for each such sale:

23 A. Date of sale;

24 B. Terms of sales agreement;

25 C. Either attach all DOCUMENTS or disks containing such data, evidencing said
26 sale, or describe such DOCUMENTS with sufficient particularity that they may be made the
27 subject of a request for production of documents;

28 D Trade, brand and/or genetic name of each such product line sold;

1 E. Name of person or entity to whom YOU sold each such
2 ASBESTOS-CONTAINING FRICTION PRODUCT line, and

3 F Location of any manufacturing facilities so sold and the type of
4 ASBESTOS-CONTAINING FRICTION PRODUCTS manufactured therein.

5 RESPONSE:

6 Ford sells replacement parts through franchised dealers and authorized distributors
7 throughout the United States Ford sold these parts, including brake linings, pads and clutch
8 facings under names such as Ford, and Mercury and under various lines and series names, as
9 well as names such as Motorcraft. Aftermarket parts were sold under the name of Ford or
10 Ford Authorized Remanufacturers. Ford notes that
11 it is not feasible to respond comprehensively to this interrogatory because records containing
12 potentially responsive information may have been discarded in accordance with Ford's
13 record retention policy.

14 INTERROGATORY NO. 32

15 -- IDENTIFY all brochures, pamphlets, catalogs or other advertising relating to
16 ASBESTOS-CONTAINING FRICTION PRODUCTS and/or RAW ASBESTOS which YOU
17 manufactured, sold, distributed or supplied from the year 1930 to 1985 For each such
18 document, state:

- 19 A. A description of the document;
20 B. The year it was printed;
21 C. The period of time in which it was used;
22 D. The purpose of said document;
23 E. Whether the documents or copies of said document presently exist;
24 -- F. If said documents or copies still exist, where they are located;
25 G. The IDENTITY of the custodian of such documents.

26 ///

27 ///

28 ///

1 **RESPONSE:**

2 Ford has not manufactured asbestos-containing friction products for use in its
3 vehicles. Ford purchased these products as pre-assembled parts, which were subsequently
4 installed in its vehicles or sold as replacement parts. Most promotional material
5 concerning such products would pertain to the vehicle as a whole or to pre-assembled
6 replacement parts. Furthermore, Ford is not aware of any sales or promotional literature
7 which describe asbestos-containing friction products.

8 **INTERROGATORY NO. 33**

9 When do YOU contend THIS DEFENDANT first became aware that there is an
10 association between asbestos exposure and disease in human beings?

11 **RESPONSE:**

12 Ford states that scattered case reports of carcinoma in persons occupationally exposed
13 to asbestos began appearing in the literature in the 1930s. Ford cannot state, however, when
14 a Ford employee first had knowledge of such information. It is known, however, that the
15 initial knowledge of a suggestion of potential hazards associated with asbestos-lined brakes
16 came in a telephone call from Dr. Selikoff to Dr. Roy Gealer of Ford Research and
17 Engineering in April 1975.

18 Ford cannot state when it or any of its employees first had knowledge of
19 asbestos-related disease among Ford employees.

20 **INTERROGATORY NO. 34**

21 How do YOU contend THIS DEFENDANT first became aware that there is an
22 association between asbestos exposure and disease in human beings?

23 **RESPONSE:**

24 Ford cannot state when a Ford employee first had knowledge of such information. It
25 is known, however, that the initial knowledge of a suggestion of potential hazards associated
26 with asbestos-lined brakes came in a telephone call from Dr. Selikoff to Dr. Roy Gealer of
27 Ford Research and Engineering in April 1975.

Ford cannot state when it or one of its employees first had knowledge of asbestos-related disease among its employees

INTERROGATORY NO. 35

Either attach all DOCUMENTS or disks containing such data, evidencing the information upon which YOUR contentions in Interrogatory Nos. 34 and 35 are based or describe such DOCUMENTS with sufficient particularity that they may be made the subject of a request for production of documents

RESPONSE:

Ford refers to and incorporated herein its response and objections to Interrogatory No. 33.

INTERROGATORY NO. 36

When did YOU first warn YOUR employees that exposure to asbestos could be hazardous to human health? State:

- A. Whether the first such warning was written or oral;
- B. Whether copies of DOCUMENTS containing such warning exist;
- C. The IDENTITY of the custodian of such DOCUMENTS,
- D. The content of the warning.

RESPONSE:

Ford did not issue any warning to its employees concerning the hazards of asbestos because it purchased brake and clutch assemblies which were already preassembled and affixed to metal shoes or plates. Since these products were installed as assemblies the employees were not subjected to any exposure.

INTERROGATORY NO. 37

Did YOU ever issue a written COMPANY policy discontinuing warning YOUR employees that exposure to asbestos could be hazardous to human health? If so:

- A. Provide the date;
- B. Describe the circumstances;

C Either attach all DOCUMENTS or disks containing such data, evidencing the information sought in this interrogatory and its subparts to YOUR answers to these interrogatories or describe such DOCUMENTS with sufficient particularity that they may be made the subject of a request for production of documents

RESPONSE:

Ford did not issue any warning to its employees concerning the hazards of asbestos because it purchased brake and clutch assemblies which were already preassembled and affixed to metal shoes or plates. Since these products were installed as assemblies the employees were not subjected to any exposure

INTERROGATORY NO. 38

At any time between 1930 and 1985, did YOU import, export, ship, transship or otherwise transport RAW ASBESTOS into, out-of-or-through any port in the GEOGRAPHIC AREA? If so, for each occasion:

A IDENTIFY and describe the NATURE and amount of RAW ASBESTOS;

B. IDENTIFY the ship or ships (including the owners and operators thereof) onto or from which the RAW ASBESTOS was loaded, unloaded or transshipped;

C. State the dates, port and pier involved for each occasion;

D. Either attach all DOCUMENTS or disks containing such data, evidencing the information sought in this interrogatory and its subparts to YOUR answers to these interrogatories or describe such DOCUMENTS with sufficient particularity that they may be made the subject of a request for production of documents.

RESPONSE:

No.

INTERROGATORY NO. 39

Did YOU or any of YOUR predecessors-in-interest manufacture any of the following products which contained ASBESTOS-CONTAINING FRICTION PRODUCTS at any time between 1930 and 1985:

A. Automobiles;

- 1 B. Light duty trucks,
2 C Heavy duty trucks or trailers,
3 D Buses/coaches.
4 E. Motorcycles,
5 F Winches, drilling rig or other stationary machinery;
6 G. Aircraft;
7 H Rubber-tired crawler, construction or farm equipment;
8 I. Railed engines or cars including light-railed
9 vehicles;
10 J Ships;
11 K. Off-road vehicles;
12 L. Fork-lifts;
13 M. Other machinery or equipment (please describe).

14 **RESPONSE:**

15 Ford responds as follows:

- 16 A. Yes.
17 B. Yes.
18 C. Yes.
19 D. Ford has been unable to locate records conclusively eliminating the
20 possibility that it manufactured those products during the relevant time.
21 E. No.
22 F. No.
23 G. No.
24 H. Yes.
25 I. No.
26 J. No.
27 K. Yes.
28 L. No.

1 M. If Plaintiffs define the phrase "other machinery or equipment" Ford will
2 attempt to further respond to this interrogatory

3 **INTERROGATORY NO. 40**

4 For each product identified in Interrogatory No 39, state:

5 A IDENTIFY the ORIGINAL EQUIPMENT including inclusive dates of
6 production;

7 B For each, IDENTIFY and describe the NATURE of the
8 ASBESTOS-CONTAINING FRICTION PRODUCTS and the inclusive dates thereof;

9 C IDENTIFY the manufacturer and/or distributor of the
10 ASBESTOS-CONTAINING FRICTION PRODUCTS which were included as component
11 parts in YOUR ORIGINAL EQUIPMENT;

12 D. Either attach all DOCUMENTS or disks containing such data, evidencing the
13 information sought in this interrogatory and its subparts to YOUR answers to these
14 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
15 made the subject of a request for production of documents (as to ORIGINAL EQUIPMENT
16 vehicle manufacturers, the documents responsive to this subpart are limited to
17 ASBESTOS-CONTAINING FRICTION PRODUCTS);

18 E. IDENTIFY the person(s) presently most knowledgeable about the information
19 sought in this interrogatory or its subparts.

20 **RESPONSE:**

21 Ford responds as follows:

22 A. Ford believes asbestos-containing friction products were incorporated into its
23 vehicles since it began selling mass production vehicles in the early 1900s. Ford further
24 states that the use of asbestos-containing friction products were phased out of the majority of
25 Ford's vehicles by 1984. By 1993, the only vehicles in which asbestos-containing friction
26 products were still used were low-volume limousine applications. Their use in limousines
27 was discontinued in 1997. No one person authorized or directed the "stoppage" of

1 asbestos-containing friction products. Such products were phased out as O.S.H.A.
2 regulations changed and suitable alternatives were discovered

3 B A brake lining is a narrow rectangle, shaped to fit around a circle. A clutch
4 facing is a flat, round, metal plate with two rings, one on each side of friction material. The
5 facing is between the fly-wheel of the engine and the pressure plate of the transmission.

6 C Ford will provide Plaintiff with a copy of a list of some historic suppliers of
7 asbestos-containing friction products.

8 D. Ford, in its on-going searches for information which may be relevant to
9 asbestos litigation, has accumulated approximately 20,000 pages of non-privileged documents
10 and other materials pertaining to asbestos-related issues. To the extent that Plaintiffs'
11 interrogatory may seek information that may be contained in these documents, Ford will
12 make them available for inspection and copying at Plaintiffs' expense at its offices in
13 Dearborn, Michigan, at a mutually agreeable time during regular business hours. Ford
14 objects to this interrogatory to the extent that it calls for information protected from
15 disclosure by the attorney-client privilege or the work product immunity.

16 E. Mr. Frederick King, a Ford Design Analysis engineer, is generally
17 knowledgeable regarding asbestos-containing friction products.

18 **INTERROGATORY NO. 41**

19 Did YOU manufacture or have manufactured or distribute in the United States for a
20 foreign manufacturer ORIGINAL EQUIPMENT? If so, please IDENTIFY each of YOUR
21 authorized dealers during the period 1930-1985 in the DEFINED GEOGRAPHIC AREA.

22 **RESPONSE:**

23 Ford sells replacement parts through franchised dealers and authorized distributors in
24 every state. It is not feasible to respond comprehensively to this
25 interrogatory because records containing potentially responsive information have been
26 discarded in accordance with Ford's record retention policy. The retention period for
27 documents of this nature is less than 7 years.

28 **///**

1 INTERROGATORY NO. 42

2 Did YOU or any of YOUR predecessors-in-interest MARKET brake shoes, brake
3 blocks, brake pads, brake linings or brake bands for any of the uses listed below at any time
4 between 1930 and 1985?

- 5 A. Automobiles or light duty trucks;
6 B. Heavy duty trucks or trailers;
7 C. Buses or coaches,
8 D. Motorcycles;
9 E. Winches, drilling rigs or other stationary machinery;
10 F. Aircraft;
11 G. Rubber tired crawlers, construction or farm equipment;
12 H. Railed engines or cars including light railed vehicles,
13 I. Shipboard;
14 J. Off-road vehicles;
15 K. Forklifts;
16 L. Other uses.

17 RESPONSE:

18 Ford refers to and incorporates herein its response to Interrogatory No. 39.

19 INTERROGATORY NO. 43

20 For each use identified in Interrogatory No. 42, state:

- 21 A. The trade, brand and generic name by which the product was known from
22 1930 to 1985;
23 B. The date(s) YOU
24 1. began MARKETING the product;
25 2. ceased to MARKET the product;
26 3. recalled the product from the market, if ever as a result of
27 asbestos-related health concerns, if any;

C. A description of the type and grade of RAW ASBESTOS in the ASBESTOS-CONTAINING FRICTION PRODUCT and the range of asbestos fiber by percentage of weight in each such ASBESTOS-CONTAINING FRICTION PRODUCT for each year between 1930 and 1985, inclusive;

D. A general description of the physical appearance and NATURE of each type of ASBESTOS-CONTAINING FRICTION PRODUCT including any generally used method of identification of the product such as distinctive markings and/or logos and the date, inclusive, during which they appeared. In addition to describing the distinctive markings and/or logos, please IDENTIFY the manufacturer or distributor of each type of ASBESTOS-CONTAINING FRICTION PRODUCT;

E IDENTIFY the suppliers of the RAW ASBESTOS used in each type of ASBESTOS-CONTAINING FRICTION PRODUCT and the time period of supply;

F. The purpose for the inclusion of asbestos in each type of ASBESTOS-CONTAINING FRICTION PRODUCT (e.g., binding agent, fire retardant, etc.);

G. The type of shipping package and the range of shipping package dimensions, if not solid, and the inclusive period of time during which YOU used each such container, package or carton;

H. A detailed description of any printed material or trademark appearing on each type of container, package or carton identified in G above and the inclusive period of time during which each such combination of printed material and trademark was used;

I. A detailed description of any written instructions, wrapping or printed insert which was or is placed in the container, package or carton with each such product and the inclusive period of time during which each instruction, wrapping or printed insert was placed in the container, package or carton;

J. Whether or not YOU have in YOUR possession of under YOUR control samples or exemplars of: 1) each container, package or carton; 2) each printed material or trademark appearing thereon; or 3) each written instruction, wrapping or printed

1 insert mentioned in YOUR response to G, H and I above

2 K Did YOU place edge codes on the ASBESTOS-CONTAINING FRICTION
3 PRODUCTS YOU MARKETED and, if so, during what period of time?

4 L Either attach all DOCUMENTS or disks containing such data, evidencing the
5 information sought in this interrogatory and its subparts to YOUR answer to these
6 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
7 made the subject of a request for production of documents;

8 M IDENTIFY the person(s) presently most knowledgeable about the information
9 sought in this interrogatory or its subparts

10 **RESPONSE:**

11 Without waiving any of the objections stated below, Ford states as follows:

12 A ~~Ford has not mined, processed or manufactured~~ asbestos-containing friction
13 products Ford sold replacement parts which included asbestos-containing brake linings,
14 pads and clutch facings through franchised Ford dealers and authorized distributors in the
15 United States, under names such as Ford, Mercury, Ford Authorized Remanufacturers, and
16 under various lines and series names such as Motorcraft.

17 B Ford believes asbestos-containing friction products were incorporated into its
18 vehicles since it began selling mass production vehicles in the early 1900s. Ford further
19 states that the use of asbestos-containing friction products were phased out of the majority of
20 Ford's vehicles by 1984. By 1993, the only vehicles in which asbestos-containing friction
21 products were still used were low-volume limousine applications. Their use in limousines
22 was discontinued in 1997. No one person authorized or directed the "stoppage" of
23 asbestos-containing friction products. Such products were phased out as O.S.H.A.
24 regulations changed and suitable alternatives were discovered.

25 C. Ford has not manufactured asbestos-containing brake linings, pads or clutch
26 facings. Ford purchased these products from suppliers. Ford understands the type of
27 asbestos fibers in these to be chrysotile However, since Ford does not manufacture these
28 products, it does not know percentages of asbestos that they contain, but, generally,

1 it is thought to be, for example, between 40% and 60% asbestos, by weight, in brake
2 linings

3 D A brake lining is a narrow rectangle, shaped to fit around a circle. A clutch
4 facing is a flat, round, metal plate with two rings, one on each side of friction material. The
5 facing is between the fly-wheel of the engine and the pressure plate of the transmission.

6 E. Ford has not manufactured asbestos-containing brake linings, pads or clutch
7 facings. Ford purchased these products from suppliers. Ford understands the type of
8 asbestos fibers in these to be chrysotile. However, since Ford does not manufacture these
9 products, it does not know percentages of asbestos that they contain, but, generally,
10 it is thought to be, for example, between 40% and 60% asbestos, by weight, in brake
11 linings.

12 F. ~~Ford used these lining and pads to assist in braking through transmitting~~
13 rotational force from the engine and fly-wheel to the rear wheels.

14 G Aftermarket brake linings, pads and clutch facings are shipped in cartons.
15 With respect to the aftermarket brake linings sold by Ford, the Ford logo, as well as a label
16 which reads along the following lines has been placed on cartons since 1980:

17 CAUTION. CONTAINS ASBESTOS FIBERS. AVOID CREATING DUST.
18 BREATHING ASBESTOS DUST MAY CAUSE SERIOUS BODILY HARM WHEN
19 SERVICING THIS BRAKE LINING OR ANY COMPONENT RELATED TO IT OR
20 LOCATED NEAR IT, PREVENT ASBESTOS DUST FROM BEING AIRBORNE BY
21 VACUUMING THIS ASSEMBLY WITH AN INDUSTRIAL TYPE VACUUM CLEANER
22 EQUIPPED WITH A HIGH EFFICIENCY FILTER SYSTEM AND BY WASHING THE
23 ASSEMBLY WITH AN APPROPRIATE BRAKE PARTS WASHER IF NECESSARY.
24 ~~NEVER REMOVE DUST OR DIRT FROM THIS ASSEMBLY BY BLOWING WITH~~
25 COMPRESSED AIR

26 H. Ford refers to and incorporates herein its response to Interrogatory 43G.

27 I. Ford refers to and incorporates herein its response to Interrogatory 43G.

28 ///

1 J. Ford will produce a sample aftermarket carton used for an asbestos
2 containing friction product

3 K. Ford states that it did not place edge codes on asbestos products Ford
4 purchases asbestos-containing friction products from suppliers The manufacturers of some
5 asbestos-containing friction products can be ascertained by part numbers, formulation codes,
6 and logos on the brake lining

7 L Ford will produce all documentation described in this response upon
8 appropriate request

9 M Mr Frederick King, a Ford Design Analysis engineer, is generally
10 knowledgeable regarding asbestos-containing friction products.

11 **INTERROGATORY NO. 44**

12 Did YOU or any of YOUR predecessors-in-interest MARKET-clutch facings, clutch
13 plates or automatic transmission plates for any of the uses listed below at any time between
14 1930 and 1985?

- 15 ---A.---Automobiles or light duty trucks;
16 B. Heavy duty trucks or trailers;
17 C Buses or coaches;
18 D. Motorcycles;
19 E. ---Winches, drilling rigs or other stationary machinery;
20 F. Aircraft;
21 G. Rubber tired crawlers, construction or farm equipment;
22 H. Railed engine or cars, including light railed vehicles;
23 I. Shipboard;
24 J. Off-road vehicles;
25 K. Forklifts;
26 L. Other uses.

27 **RESPONSE:**

28 Ford refers to and incorporates herein its response to Interrogatory No. 39.

1 INTERROGATORY NO. 45

2 For each use identified in Interrogatory No 44, state

3 A. The trade, brand and genetic name by which the product was known from
4 1930 to 1985,

5 B. The date(s) YOU.

6 1. began MARKETING the product;

7 2. ceased to MARKET the product;

8 3. recalled the product from the market, if ever, as a result of
9 asbestos-related health concerns, if any;

10 C. A description of the type and grade of RAW ASBESTOS in the
11 ASBESTOS-CONTAINING FRICTION PRODUCT and the range of asbestos fiber by
12 percentage of weight in each such ASBESTOS-CONTAINING FRICTION PRODUCT for
13 each year between 1930 and 1985, inclusive;

14 D. A general description of the physical appearance and NATURE of each type of
15 ASBESTOS-CONTAINING FRICTION PRODUCT including any generally used method of
16 identification of the product such as distinctive markings and/or logos and the dates,
17 inclusive, during which they appeared. In addition to describing the distinctive markings
18 and/or logos, please IDENTIFY the manufacturer or distributor of each type of
19 ASBESTOS-CONTAINING FRICTION PRODUCT;

20 E. IDENTIFY the suppliers of the RAW ASBESTOS used in each type of
21 ASBESTOS-CONTAINING FRICTION PRODUCT and the time period of supply;

22 F. The purpose for the inclusion of asbestos in each type of
23 ASBESTOS-CONTAINING FRICTION PRODUCT (e.g., binding agent, fire retardant,
24 etc); --

25 G. The type of shipping package and the range of shipping package dimensions, if
26 not solid, and the inclusive period of time during which YOU used each such container,
27 package or carton;

1 H. A detailed description of any printed material or trademark appearing on each
2 type of container, package or carton identified in G above, and the inclusive period of time
3 during which each such combination of printed material and trademark was used,

4 I A detailed description of any written instructions, wrapping or printed insert
5 which was or is placed in the container, package or carton with each such product, and the
6 inclusive period of time during which each instruction, wrapping or printed insert was placed
7 in the container, package or carton;

8 J. Whether or not YOU have in YOUR possession or under YOUR control
9 samples or exemplars of 1) each container, package or carton; 2) each printed material or
10 trademark appearing thereon; or 3) each written instruction, wrapping or printed
11 insert mentioned in YOUR response to G, H and I above;

12 K. Did YOU place edge codes on the ASBESTOS-CONTAINING FRICTION
13 PRODUCTS YOU MARKETING and, if so, during what period of time?;

14 L. Either attach all DOCUMENTS or disks containing such data, evidencing the
15 information sought in this interrogatory and its subparts to YOUR answers to these
16 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
17 made the subject of a request for production of documents;

18 M. IDENTIFY the person(s) most knowledgeable about the information sought in
19 this interrogatory or its subparts.

20 **RESPONSE:**

21 Ford refers to and incorporates herein its response to Interrogatory No. 43.

22 **INTERROGATORY NO. 46**

23 Did YOU or any of YOUR predecessors-in-interest MARKET any
24 ASBESTOS-CONTAINING FRICTION PRODUCTS to any ORIGINAL EQUIPMENT
25 MANUFACTURER? If so, IDENTIFY each ORIGINAL EQUIPMENT
26 MANUFACTURER to whom YOU MARKETING ASBESTOS-CONTAINING FRICTION
27 PRODUCTS and as to each ORIGINAL EQUIPMENT MANUFACTURER, IDENTIFY the

1 ASBESTOS-CONTAINING FRICTION PRODUCT that YOU MARKETED to them and the
2 inclusive years that YOU did so.

3 A Either attach all DOCUMENTS or disks containing such data, evidencing the
4 information sought in this interrogatory and its subparts to YOUR answer to these
5 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
6 made the subject of a request for production of documents;

7 B IDENTIFY the person(s) presently most knowledgeable about the information
8 sought in this interrogatory or its subparts.

9 **RESPONSE:**

10 Ford refers to and incorporates herein its response to Interrogatory No. 43.

11 **INTERROGATORY NO. 47**

12 Did YOU or any of YOUR predecessors-in-interest MARKET any
13 ASBESTOS-CONTAINING FRICTION PRODUCTS to any PRIVATE BRAND ACCOUNT
14 CUSTOMER? If so, for each PRIVATE BRAND ACCOUNT CUSTOMER, IDENTIFY
15 and describe the NATURE of the product MARKETED to that PRIVATE BRAND
16 ACCOUNT CUSTOMER, the inclusive dates thereof and, if known, the name(s) under
17 which the PRIVATE BRAND ACCOUNT CUSTOMER MARKETED the product.

18 A. DESCRIBE to the best of YOUR knowledge how the PRIVATE BRAND
19 ACCOUNT CUSTOMER MARKETED the product which YOU sold or distributed to it;

20 B. Either attach all DOCUMENTS or disks containing such data, evidencing the
21 information sought in this interrogatory or its subparts to YOUR answers to these
22 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
23 made the subject of a request for production of documents;

24 C. IDENTIFY the person(s) presently most knowledgeable about the information
25 sought in this interrogatory or its subparts.

26 **RESPONSE:**

27 Ford refers to and incorporates herein its response to Interrogatory No. 43.

28 **///**

1 INTERROGATORY NO. 48

2 Did YOU or any of YOUR predecessors-in-interest MARKET any
3 ASBESTOS-CONTAINING FRICTION PRODUCTS to any AFTER MARKET or
4 REPLACEMENT PART RETAILER operating 10 or more stores in the GEOGRAPHIC
5 AREA? If so, IDENTIFY each AFTER MARKET or REPLACEMENT PART RETAILER
6 in the GEOGRAPHIC AREA and for each please state:

7 A The inclusive years during which YOU MARKETING products to said AFTER
8 MARKET or REPLACEMENT PART RETAILER,...

9 B IDENTIFY the ASBESTOS-CONTAINING FRICTION PRODUCTS which
10 YOU MARKETING to the AFTER MARKET or REPLACEMENT PART RETAILER;

11 C. Either attach all DOCUMENTS or disks containing such data, evidencing the
12 information sought in this interrogatory and its subparts to YOUR answers to these
13 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
14 made the subject of a request for production of documents;

15 D. IDENTIFY the person(s) presently most knowledgeable about the information
16 sought in this interrogatory or its subparts.

17 RESPONSE:

18 Ford refers to and incorporates herein its response to Interrogatory No. 43.

19 INTERROGATORY NO. 49

20 Did YOU or any of YOUR predecessors-in-interest MARKET any
21 ASBESTOS-CONTAINING FRICTION PRODUCTS to any warehouse distributor who
22 MARKETING the product under YOUR name in the GEOGRAPHIC AREA? If so,
23 IDENTIFY each warehouse distributor who MARKETING the product under YOUR name in
24 the GEOGRAPHIC AREA and for each state:

25 A. The inclusive years during which YOU MARKETING
26 ASBESTOS-CONTAINING FRICTION PRODUCTS to said warehouse distributor who
27 distributed the product under YOUR name;

1 B. IDENTIFY the ASBESTOS-CONTAINING FRICTION PRODUCTS which
2 YOU MARKETING to the warehouse distributor who distributed the products under YOUR
3 name.

4 C Either attach all DOCUMENTS or disks containing such data, evidencing the
5 information sought in this interrogatory and its subparts to YOUR answers to these
6 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
7 made the subject of a request for production of documents;

8 D. IDENTIFY the person(s) presently most knowledgeable about the information
9 sought in this interrogatory or its subparts.

10 **RESPONSE:**

11 Ford refers to and incorporates herein its response to Interrogatory No. 43.

12 **INTERROGATORY NO. 50**

13 Did YOU or any of YOUR predecessors-in-interest MARKET any
14 ASBESTOS-CONTAINING FRICTION PRODUCTS to any warehouse distributor who
15 MARKETING YOUR ASBESTOS-CONTAINING FRICTION PRODUCTS under a name
16 other than YOURS in the GEOGRAPHIC AREA? If so, IDENTIFY each warehouse
17 distributor who MARKETING YOUR ASBESTOS-CONTAINING FRICTION PRODUCTS
18 under a name other than YOURS in the GEOGRAPHIC AREA and for each please state:

19 A. The inclusive years during which YOU MARKETING
20 ASBESTOS-CONTAINING FRICTION PRODUCTS through said warehouse distributor;

21 B. IDENTIFY the products which YOU MARKETING through the warehouse
22 distributor and for each the name under which the warehouse distributed MARKETING the
23 product;

24 C. Either attach all DOCUMENTS or disks containing such data, evidencing the
25 information sought in this interrogatory and its subparts to YOUR answers to these
26 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
27 made the subject of a request for production of documents;

1 D. IDENTIFY the person(s) presently most knowledgeable about the information
2 sought in this interrogatory or its subparts

3 RESPONSE:

4 Ford refers to and incorporates herein its response to Interrogatory No. 43.

5 INTERROGATORY NO. 51

6 Did YOU or any of YOUR predecessors-in-interest MARKET any
7 ASBESTOS-CONTAINING FRICTION PRODUCTS to any retailer operating 10 or more
8 stores in the GEOGRAPHIC AREA who sold ASBESTOS-CONTAINING FRICTION
9 PRODUCTS under YOUR name in the GEOGRAPHIC AREA? If so, IDENTIFY each
10 retailer who sold ASBESTOS-CONTAINING FRICTION PRODUCTS under YOUR name
11 in the GEOGRAPHIC AREA and for each state:

12 A. The inclusive years during which YOU MARKETED
13 ASBESTOS-CONTAINING FRICTION PRODUCTS to said retailer who sold the product
14 under YOUR name;

15 B. Please identify the ASBESTOS-CONTAINING FRICTION PRODUCTS
16 which YOU MARKETED to the retailer who sold the product under YOUR name;

17 C. Either attach all DOCUMENTS or disks containing such data, evidencing the
18 information sought in this interrogatory and its subparts to YOUR answers to these
19 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
20 made the subject of a request for production of documents;

21 D. IDENTIFY the person(s) presently most knowledgeable about the information
22 sought in this interrogatory or its subparts.

23 RESPONSE:

24 Ford refers to and incorporates herein its response to Interrogatory No. 43.

25 INTERROGATORY NO. 52

26 Did YOU or any of YOUR predecessors-in-interest MARKET any
27 ASBESTOS-CONTAINING FRICTION PRODUCTS to any retailer operating 10 or more
28 stores in the GEOGRAPHIC AREA who MARKETED the product under any other name in

1 the GEOGRAPHIC AREA? If so, IDENTIFY each retailer who MARKETED the product
2 under any other name in the GEOGRAPHIC AREA and for each state

3 A The inclusive years during which YOU MARKETED products through said
4 retailer,

5 B IDENTIFY the products which YOU MARKETED through each retailer and,
6 for each, the name under which the retailer MARKETED the product;

7 C Either attach all DOCUMENTS or disks containing such data, evidencing the
8 information sought in this interrogatory and its subparts to YOUR answers to these
9 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
10 made the subject of a request for production of documents;

11 D. IDENTIFY the person(s) presently most knowledgeable about the information
12 sought in this interrogatory or its subparts

13 **RESPONSE:**

14 No.

15 **INTERROGATORY NO. 53**

16 Did YOU or any of YOUR predecessors-in-interest MARKET any
17 ASBESTOS-CONTAINING FRICTION PRODUCTS to any FABRICATOR OF ORIGINAL
18 EQUIPMENT PARTS? If so, IDENTIFY each FABRICATOR OF ORIGINAL
19 EQUIPMENT PARTS to whom YOU MARKETED products and as to each FABRICATOR
20 OF ORIGINAL EQUIPMENT PARTS, state:

21 A. The inclusive years during which YOU MARKETED said products to each
22 FABRICATOR OF ORIGINAL PARTS;

23 B. IDENTIFY each product YOU MARKETED to each FABRICATOR OF
24 ORIGINAL PARTS;-----

25 C. Either attach all DOCUMENTS or disks containing such data, evidencing the
26 information sought in this interrogatory and its subparts to YOUR answers to these
27 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
28 made the subject of a request for production of documents;

1 D IDENTIFY the person(s) presently most knowledgeable about the information
2 sought in this interrogatory or its subparts

3 RESPONSE:

4 Ford refers to and incorporates herein its response to Interrogatory No. 43

5 INTERROGATORY NO. 54

6 Did YOU or any of YOUR predecessors-in-interest MARKET any
7 ASBESTOS-CONTAINING FRICTION PRODUCTS to any agency or department of the
8 U.S. Government? If so, IDENTIFY each agency or department of the U.S. Government to
9 whom YOU MARKETED products and as to each agency or department of the U.S.
10 Government IDENTIFY the product that YOU MARKETED to them and the inclusive
11 years that YOU did so.

12 A. Either attach all DOCUMENTS or disks containing such data, evidencing the
13 information sought in this interrogatory and its subparts to YOUR answers to these
14 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
15 made the subject of a request for production of documents;

16 B. IDENTIFY the person(s) presently most knowledgeable about the information
17 sought in this interrogatory or its subparts.

18 RESPONSE:

19 Ford states that it sells replacement parts through franchised dealers, authorized
20 distributors and to the U. S. Military.

21 INTERROGATORY NO. 55

22 Did YOU or any of YOUR predecessors-in-interest MARKET any
23 ASBESTOS-CONTAINING FRICTION PRODUCTS to any agency or department of any
24 governmental entity other than the U.S. Government? If so, IDENTIFY any agency or
25 department of any governmental entity other than the U.S. Government to whom YOU
26 MARKETED products and as to each agency or department of said governmental entity other
27 than the U.S. Government, IDENTIFY the product that YOU MARKETED to them and the
28 inclusive years that YOU did so.

1 A. Either attach all DOCUMENTS or disks containing such data, evidencing the,
2 information sought in this interrogatory and its subparts to YOUR answers to these
3 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
4 made the subject of a request for production of documents;

5 B. IDENTIFY the person(s) presently most knowledgeable about the information
6 sought in this interrogatory or its subparts.

7 RESPONSE:

8 Ford refers to and incorporates herein its response to Interrogatory No 43

9 INTERROGATORY NO. 56

10 Did YOU purchase or acquire any of the RAW ASBESTOS YOU used, processed,
11 manufactured, supplied, distributed, labeled or sold from the General Services Administration
12 or any branch or agency of the U.S. Government during the period 1930 to 1985? If
13 yes, state:

14 A. The name and address of the agency which supplied the RAW ASBESTOS,

15 B. The grade and types of RAW ASBESTOS purchased or acquired;

16 C. The quantities of each type of RAW ASBESTOS purchased or acquired from
17 1930 to 1985,

18 D. The means of packaging;

19 E. Any health warning which accompanied each shipment of asbestos and indicate
20 when the warnings were first made;

21 F. Either attach all DOCUMENTS or disks containing such data, evidencing the
22 information sought in this interrogatory and its subparts to YOUR answers to these
23 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
24 made the subject of a request for production of documents;

25 G. IDENTIFY the person(s) presently most knowledgeable about the information
26 sought in this interrogatory or its subparts.

27 ///

28 ///

1 **RESPONSE:**

2 Ford has not manufactured asbestos-containing brake parts used in its production
3 vehicles and, therefore, has not purchased processed asbestos used in their manufacture

4 **INTERROGATORY NO. 57**

5 As to each ASBESTOS-CONTAINING FRICTION PRODUCT listed in YOUR
6 preceding answers to these interrogatories, did DEFENDANT warn of the health hazards of
7 asbestos? If so, state for each such warning:

8 A. The content, size, color and location; whether the warning appeared on the
9 material and/or on the container and/or placed on a tag, whether the warning was included in
10 contracts, whether the warning was included in advertising or other promotional material;

11 B. State whether YOU have any photographs thereof;

12 C. The inclusive dates on which YOU used each such warning;

13 D. State all changes YOU made in such warnings and the dates of such changes;

14 E. IDENTIFY the person most knowledgeable about YOUR warnings and
15 warning policy;

16 F. Do YOU have or know of samples, photographs or DOCUMENTS depicting
17 the above warnings?

18 **RESPONSE:**

19 Ford refers to and incorporates herein its response to interrogatory No. 56.

20 **INTERROGATORY NO. 58**

21 State whether any surveys or studies of ambient asbestos dust have been conducted by
22 YOU or on YOUR behalf at vehicle repair or maintenance facilities. If yes, state as to each
23 such survey or study:

24 A. The subject matter, title and date of each study;

25 B. The date and the name of the person authorizing the study;

26 C. The reason for the study;

27 D. IDENTIFY the persons who conducted the study;

28 E. The date the study was completed;

1 F Whether the results were published and disseminated and, if so, where and to
2 whom.

3 G The results of the study.

4 H If statistical analyses were made, state the date and describe the results and
5 assumptions upon which they were based;

6 I. Either attach all DOCUMENTS or disks containing such data, evidencing the
7 information sought in this interrogatory and its subparts to YOUR answers to these
8 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
9 made the subject of a request for production of documents;

10 J. IDENTIFY the person(s) presently most knowledgeable about the information
11 sought in this interrogatory or its subparts.

12 RESPONSE:

13 In the early 1970's Arnold Anderson and Roy Gealer of Ford's Scientific Research
14 Staff conducted tests to determine the quantity of asbestos fibers liberated from brake linings
15 during the braking process. They concluded that over 99 98% of the asbestos fibers in brake
16 linings decomposed during the braking process into other materials. Their results were
17 published in a 1973 SAE paper by A. Anderson and R. Gealer entitled "Asbestos
18 Emissions From Brake Dynamometer Tests."

19 In 1973, Ford's Industrial Hygiene Department conducted air sampling tests on brake
20 linings being cleaned by brake mechanics using air hoses. They determined that asbestos
21 levels were well below existing or proposed O.S.H.A. standards. This testing was
22 done by Mr. Anderson and Henry Lick, under the supervision of Paul Toth, the then
23 manager of Industrial Hygiene.

24 --In addition, Ford partially financed studies done at Mt. Sinai School of Medicine
25 which reached the same conclusions as the Ford Anderson/Gealer studies.

26 / / /

27 / / /

28 / / /

1 INTERROGATORY NO. 59

2 With respect to each product identified in YOUR answers to these interrogatories,
3 describe

4 A The procedure which YOU recommended for installing the
5 ASBESTOS-CONTAINING FRICTION PRODUCT in the vehicle or machine for which it
6 was manufactured;

7 B The procedure which YOU recommended for removing the ASBESTOS-
8 CONTAINING FRICTION PRODUCT from the vehicle or machinery for which it was
9 manufactured,

10 C Whether the procedure YOU recommended for the use, maintenance or
11 servicing of the ASBESTOS-CONTAINING FRICTION PRODUCT included:

- 12 1 Grinding; _____
13 2. Arcing;
14 3. Beveling;
15 4. Sanding.

16 D Either attach all DOCUMENTS or disks containing such data, evidencing the
17 information sought in this interrogatory and its subparts to YOUR answers to these
18 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
19 made the subject of a request for production of documents;

20 E. IDENTIFY the person(s) presently most knowledgeable about the information
21 sought in this interrogatory or its subparts.

22 RESPONSE:

23 Ford states as follows:

24 A. - B. --Ford issued an August 3, 1973, memorandum to Plant Safety Engineers
25 directing that brake drums be cleaned using industrial type vacuum cleaners. The memo
26 directed that air hoses should not be used to clean brake drums. Simultaneously,
27 Maintenance Bulletin 137 was issued by the Plant Engineering Office to the same effect.

1 On October 24, 1975, Ford Technical Service Bulletin 99 was distributed to Ford and
2 Lincoln-Mercury Dealers. It recommended that a vacuum cleaner be used for cleaning
3 brakes. In January 1976, a Technical Service Bulletin 104 was issued to the dealers
4 indicating that Ford recommended the use of an industrial vacuum cleaner in brake cleaning
5 operations. The 1977 edition of the Rotunda Catalog and Ford's Shop Manual for
6 Dealerships recommended that brakes not be cleaned with an air hose and that a vacuum
7 cleaner be used for this purpose. In November 1983, Ford issued Bulletin No. 83-22 on
8 brake and clutch servicing. Technical Service Bulletins are presently distributed to
9 approximately 29,000 Ford and Lincoln-Mercury dealer technicians. These documents are
10 the results of corporate activity and are not the work of any single author. These bulletins
11 have not been superseded.

12 C At one time, it was the practice to shape and fit linings by cutting, grinding
13 and beveling. Also, at one time, it was the practice to affix friction material to the metal
14 shoes or plates by riveting and bonding.

15 D. Ford, in its on-going searches for information which may be relevant to
16 asbestos litigation, has accumulated approximately 20,000 pages of non-privileged documents
17 and other materials pertaining to asbestos-related issues. To the extent that Plaintiffs'
18 interrogatory may seek information that may be contained in these documents, Ford will
19 make them available for inspection and copying at Plaintiffs' expense at its offices in
20 Dearborn, Michigan, at a mutually agreeable time during regular business hours. Ford
21 objects to this interrogatory to the extent that it calls for information protected from
22 disclosure by the attorney-client privilege or the work product immunity.

23 E. Mr. Frederick King, a Ford Design Analysis engineer, is generally
24 knowledgeable regarding asbestos-containing friction products.

25 **INTERROGATORY NO. 60**

26 Did any of the individuals or COMPANIES identified in YOUR answer to
27 Interrogatory Nos. 46-55 inclusive and Interrogatory No. 61 have an exclusive relationship

1 with YOU? If so, IDENTIFY the individual or COMPANY, the production for which the
2 exclusive relationship existed and the inclusive dates of the exclusive
3 relationship

4 A. Either attach all DOCUMENTS or disks containing such data, evidencing the
5 information sought in this interrogatory and its subparts to YOUR answers to these
6 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
7 made the subject of a request for production of documents;

8 B. IDENTIFY the person(s) presently most knowledgeable about the information
9 sought in this interrogatory or its subparts.

10 **RESPONSE:**

11 No.

12 **INTERROGATORY NO. 61**

13 Did YOU at any time between 1930 and 1985 own or operate a wholesale or retail
14 business or store in the DEFINED GEOGRAPHIC AREA at which
15 ASBESTOS-CONTAINING FRICTION PRODUCTS were MARKETED? If so:

16 A. State the name, address and years that the BUSINESS or store were in
17 operation;

18 B. IDENTIFY the owner and operator of the store or BUSINESS and the
19 inclusive dates thereof; _____

20 C. IDENTIFY and describe the NATURE of the ASBESTOS-CONTAINING
21 FRICTION PRODUCTS sold at the BUSINESS or store and the inclusive dates thereof;

22 D. Did the store of BUSINESS have an exclusive relationship with any
23 manufacturer or MARKETER of ASBESTOS-CONTAINING FRICTION PRODUCTS? If
24 so, IDENTIFY the manufacturer or MARKETER, IDENTIFY the
25 ASBESTOS-CONTAINING FRICTION PRODUCTS and state the inclusive dates of the
26 exclusive relationship;

1 E. Either attach all DOCUMENTS or disks containing such data, evidencing the
2 information sought in this interrogatory and its subparts to YOUR answers to these
3 interrogatories or describe such DOCUMENTS with sufficient particularity that they may be
4 made the subject of a request for production of documents;

5 F. IDENTIFY the person(s) presently most knowledgeable about the information
6 sought in this interrogatory or its subparts.

7 RESPONSE:

8 Ford sells replacement parts through franchised dealers and authorized distributors
9 throughout the United States. Ford also refers to and incorporates herein its response to
10 Interrogatory No. 10.

11 INTERROGATORY NO. 62

12 If any person YOU have identified in YOUR answers to these interrogatories has had
13 his or her deposition taken, IDENTIFY the deposition by the name of the deponent, the date
14 the deposition was taken, the caption and number of the action in which it was taken, the
15 court which had jurisdiction over the action in which it was taken (including state and
16 county) and either the name and address of the court reporting agency which took the
17 deposition or the name and address of deponent's counsel of record.

18 RESPONSE:

19 Ford refers to and incorporates herein its response to Interrogatory No. 12. Ford
20 notes that Mr. Fredrick King has been deposed in several cases on behalf of Ford.
21 However, none of these cases alleged asbestos-related injuries.

22 CONCLUSION

23 DATED: April 20, 1998

24 Respectfully submitted,

25 HARDIN, COOK, LOPER, ENGEL & BERGEZ, LLP

26
27 By: EUGENE BROWN, JR.

28
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STATE OF MICHIGAN

SS

COUNTY OF WAYNE

JEROME R. DROUILLARD, being duly sworn, deposes and says that the deponent is an authorized agent of Ford Motor Company, and that the deponent verifies the foregoing SECOND AMENDED SUPPLEMENTAL RESPONSES OF FORD MOTOR COMPANY TO GENERAL ORDER 129 STANDARD INTERROGATORIES TO FRICTION DEFENDANTS for and on behalf of Ford Motor Company and is duly authorized so to do, that the matters stated therein are not within the personal knowledge of the deponent; that the facts stated therein have been assembled by authorized employees and counsel of Ford Motor Company, and the deponent is informed that the facts stated therein are true.

Subscribed and sworn to before me this

12th day of May 1998

Heather A. Sampson

HEATHER A. SAMPSON
Notary Public, Wayne County, Michigan
My Commission Expires November 21, 2002