

POOR ORIGINAL

AUG 5 1980

NRC/TMI-20-121

Docket No.: 50-320

Mr. R. C. Arnold
Senior Vice President
Metropolitan Edison Company
100 Interpace Parkway
Parsippany, NJ 07054

DISTRIBUTION:
DN 50-320
NRC PDR
Local PDR
TERA
TMI Program Office HQ r/f
TMI Site r/f
NRR r/f
B. Snyder
J. Collins
M. Duncan, LA
IE (3)
J. R. Buchanan, NSIC
R. Weller
ACRS (16)
Attorney, ELD
R. Conte
A. FASANO

THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

Dear Mr. Arnold:

This letter is in response to Metropolitan Edison's request for guidance in three specific areas of the proposed TMI worker registry. The NRC's technical staff has discussed these areas with NIOSH, NRC consultants, and NRC's Office of the Executive Legal Director.

As a result of these discussions, we make the following recommendations:

Met-Ed's request #1: Clarification of which TMI worker groups are to be included in the worker registry.

NRC staff response: For purpose of the TMI worker registry, a worker shall be defined as any person who has been issued a personal radiation dosimeter at the TMI nuclear facility since March 28, 1979. Therefore, inclusion in the TMI worker registry should be based upon whether an individual was badged, not upon whether he was a nuclear or non-nuclear worker.

Met-Ed's request #2: Guidance on data to be included in Met-Ed medical program.

NRC staff response: If Met-Ed implements a medical examination program similar to the Department of the Navy's NAVMED P-5055, all the necessary baseline medical information should be obtained for the follow-up for long-term health effects.

At the time of the initial physical examination, information on the individual's medical history, occupational history and personal identifiers should be recorded. Examples of questionnaires used by NIOSH to obtain this data are included for your guidance (Enclosures 1 and 2). Of particular importance in the medical history is the information on the frequency, amount, and duration of tobacco use. A occupational history, including names, and addresses of previous employers and previous exposures to any carcinogenic substances, is vital for a long-term health effects study. To help insure the traceability of an individual, we also recommend that a worker provide the names and addresses of several next-of-kin.

POOR ORIGINAL

OFFICE ▶	600070 037			
SURNAME ▶				
DATE ▶				

Met-Ed's request #3: Development of a form to be signed by a nuclear worker for release of personal information needed for the follow-up for long-term health effects in the nuclear power industry.

NRC staff response: The NRC staff recommends that a statement similar to the enclosed release of information statement (Enclosure 3) be signed by a nuclear worker when he begins work at the TMI site.

We hope the above responses to your requests are adequate. If there are additional questions, please contact us.

Sincerely,

Original signed by
John T. Collins
John T. Collins
Deputy Program Director
TMI Program Office

Enclosures:

- 1. NIOSH Health Questionnaire
- 2. NIOSH Health Questionnaire
- 3. TMI Worker Registry Consent Form

cc: Murray Miles, BETA, Inc.
 Dick Heward, GPU
 Jesse Brasher, Met-Ed
 I. E. Hildebrand, Met-Ed
 Paul Strudler, NIOSH
 K. Goller, NRC
 M. Barsont, NRC
 D. Flack, NRC
 See Service Distribution List

POOR ORIGINAL

OFFICE ▶	TMI:PO				
SURNAME ▶	JT Collins:si				
DATE ▶	8/5/80				

R. C. Arnold
Metropolitan Edison Company

Mr. G. K. Hovey
Director, Unit 2
Metropolitan Edison Company
P. O. Box 480
Middletown, PA 17057

Mr. J. J. Barton
Manager, Site Operations, Unit 2
Metropolitan Edison Company
P. O. Box 480
Middletown, PA 17057

Mr. J. W. Brasher
Manager, Radiological Control, Unit 2
Metropolitan Edison Company
P. O. Box 480
Middletown, PA 17057

Mr. B. Elam
Manager, Plant Engineering, Unit 2
Metropolitan Edison Company
P. O. Box 480
Middletown, PA 17057

Mr. R. F. Wilson
Director, Technical Functions
Metropolitan Edison Company
P.O. Box 480
Middletown, PA 17057

Mr. L. W. Harding
Supervisor of Licensing
Metropolitan Edison Company
P. O. Box 480
Middletown, PA 17057

Mr. E. G. Wallace
Licensing Manager
GPU Service Corporation
100 Interpace Parkway
Parsippany, NJ 07054

Mr. I. R. Finfrock, Jr.
Jersey Central Power & Light Company
Madison Avenue at Punch Bowl Road
Morristown, NJ 07950

Mr. R. W. Conrad
Pennsylvania Electric Company
1007 Broad Street
Johnstown, PA 15907

J. B. Lieberman, Esquire
Berlock, Israel, Lieberman
26 Broadway
New York, NY 10004

George F. Trowbridge, Esquire
Shaw, Pittman, Potts & Trowbridge
1800 M Street, N.W.
Washington, DC 20036

Ms. Mary V. Southard, Chairperson
Citizens for a Safe Environment
P. O. Box 405
Harrisburg, PA 17108

Dr. Walter H. Jordan
881 W. Outer Drive
Oak Ridge, TN 37830

Dr. Linda W. Little
5000 Hermitage Drive
Raleigh, NC 27612

Karin W. Carter, Esquire
505 Executive House
P. O. Box 2357
Harrisburg, PA 17120

Honorable Mark Cohen
512 E-3 Main Capital Building
Harrisburg, PA 17120

Ellyn Weiss, Esquire
Sheldon, Harmon, Roisman & Weiss
1725 I Street, N.W., Suite 506
Washington, DC 20006

Mr. Steven C. Sholly
304 S. Market Street
Mechanicsburg, PA 17055

Mr. Thomas Gerusky
Bureau of Radiation Protection
P. O. Box 2063
Harrisburg, PA 17120

Mr. Marvin I. Lewis
6504 Bradford Terrace
Philadelphia, PA 19149

Ms. Jane Lee
R. D. 3, Box 3521
Etters, PA 17319

Mr. R. C. Arnold
Metropolitan Edison Company

Walter W. Cohen, Consumer Advocate
Department of Justice
Strawberry Square, 14th Floor
Harrisburg, PA 17127

Robert L. Knupp, Esquire
Assistant Solicitor
Knupp and Andrews
P. O. Box P
407 N. Front Street
Harrisburg, PA 17108

John E. Minnich, Chairperson
Dauphin Co. Board of Commissioners
Dauphin County Courthouse
Front and Market Streets
Harrisburg, PA 17101

Robert Q. Pollard
Chesapeake Energy Alliance
609 Montpelier Street
Baltimore, MD 21218

Chauncey Kepford
Judith H. Johnsrud
Environmental Coalition on Nuclear Power
433 Orlando Avenue
State College, PA 16801

Ms. Frieda Berryhill, Chairperson
Coalition for Nuclear Power Plant
Postponement
2610 Grendon Drive
Wilmington, DE 19808

Holly S. Keck
Anti-Nuclear Group Representing York
245 W. Philadelphia Street
York, PA 17404

John Levin, Esquire
Pennsylvania Public Utilities Commission
P. O. Box 3265
Harrisburg, PA 17120

Jordon D. Cunningham, Esquire
Fox, Farr and Cunningham
2320 N. Second Street
Harrisburg, PA 17110

Ms. Kathy McCaughin
Three Mile Island Alert, Inc.
23 South 21st Street
Harrisburg, PA 17104

Ms. Marjorie M. Aamodt
R. D. #5
Coatesville, PA 19320

Ms. Karen Sheldon
Sheldon, Harmon, Roisman & Weiss
1725 I Street, N.W., Suite 506
Washington, DC 20006

Earl B. Hoffman
Dauphin County Commissioner
Dauphin County Courthouse
Front and Market Street
Harrisburg, PA 17101

Government Publications Section
State of Library of Pennsylvania
Box 1601 Education Building
Harrisburg, PA 17127

Dr. Edward O. Swartz
Board of Supervisors
Londonderry Township
RFD #1 Geyers Church Road
Middletown, PA 17057

U. S. Environmental Protection Agency
Region III Office
ATTN: EIS COORDINATOR
Curtis Building (Sixth Floor)
6th and Walnut Streets
Philadelphia, PA 19106

Dauphin County Office Emergency
Preparedness
Court House, Room 7
Front and Market Streets
Harrisburg, PA 17101

Department of Environmental Resources
ATTN: Director, Office of
Radiological Health
P. O. Box 2063
Harrisburg, PA 17105

Mr. R. C. Arnold
Metropolitan Edison Company

Governor's Office of State,
Planning and Development
ATTN: Coordinator, Pennsylvania
Clearinghouse
P. O. Box 1323
Harrisburg, PA 17120

Mrs. Rhoda D. Carr
1402 Marene Drive
Harrisburg, PA 17109

Mr. Richard Roberts
The Patriot
812 Market Street
Harrisburg, PA 17105

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Generation Division
Suite 420, 7735 Old Georgetown Road
Bethesda, MD 20014

Ivan W. Smith, Esquire
Atomic Safety and Licensing Board
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Atomic Safety and Licensing Board Panel
U. S. Nuclear Regulatory Commission
Washington, DC 20555

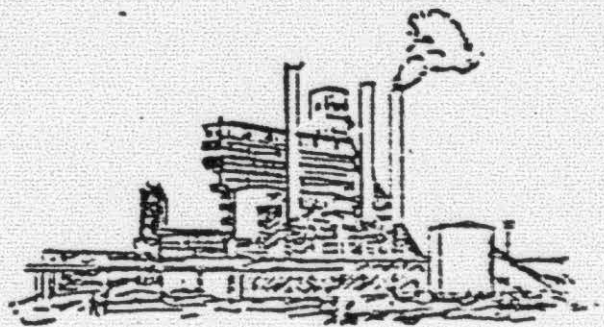
Atomic Safety and Licensing Appeal Panel
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Docketing and Service Section
U. S. Nuclear Regulatory Commission
Washington, DC 20555

NIOSH

CROUSE-HINDS
SYRACUSE, N. Y.

QUESTIONNAIRE



U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / Public Health Service
Center for Disease Control / National Institute for Occupational Safety and Health

INTERVIEWER:

(7-8)

CHECKED BY:

(9-10)

DATE OF INTERVIEW:

— — (11-16)
MO DAY YR

LABEL

SUBJECT IDENTIFICATION

CASE NO. (1-5)

LAST NAME: (17-35)

FIRST NAME: (36-48)

MIDDLE INITIAL: (49)

ADDRESS: (50-74)

CITY: (6-26)

(79-80)

STATE: (27-28)

ZIP CODE: (29-33)

PERSONAL DATA

1. TELEPHONE: — — (34-43)
AREA CODE

2. RACE/ETHNIC CODE: (44)

1. White, not of Hispanic Origin
2. Black, not of Hispanic Origin
3. Hispanic
4. American Indian or Alaskan Native
5. Asian or Pacific Islander
6. Other

3. SEX: 1. Male 2. Female (45)

4. What is your date of birth? (month/day/year) — — (46-51)

RESPIRATORY

THESE HEALTH QUESTIONS ARE MAINLY ABOUT YOUR CHEST. PLEASE ANSWER YES OR NO, IF POSSIBLE.

(IF A QUESTION DOES NOT APPEAR TO BE APPLICABLE, CHECK THE "NOT APPLICABLE" SPACE)

IF YOU ARE IN DOUBT ABOUT WHETHER THE ANSWER IS YES OR NO, RECORD NO.

COUGH

- 1A. DO YOU USUALLY HAVE A COUGH? (COUNT A COUGH WITH FIRST SMOKE OR ON FIRST GOING OUT-OF-DOORS. EXCLUDE CLEARING OF THROAT)..... 1 YES 2 NO (6)

IF YES:

- B. DO YOU USUALLY COUGH AS MUCH AS 4 TO 6 TIMES A DAY, 4 OR MORE DAYS OUT OF THE WEEK?..... 1 YES 2 NO (7)

- C. DO YOU USUALLY COUGH AT ALL ON GETTING UP, OR FIRST THING IN THE MORNING?..... 1 YES 2 NO (8)

- D. DO YOU USUALLY COUGH AT ALL DURING THE REST OF THE DAY OR AT NIGHT?..... 1 YES 2 NO (9)

If "YES" to 1A, B, C or D

- E. DO YOU USUALLY COUGH LIKE THIS ON MOST DAYS FOR 3 CONSECUTIVE MONTHS OR MORE DURING THE YEAR?..... 1 YES 2 NO 9 NA (10)

- F. FOR HOW MANY YEARS HAVE YOU HAD THIS COUGH? (11-12) NO. YRS. 9 NA (11)

PHLEGM

- 2A. DO YOU USUALLY BRING UP PHLEGM FROM YOUR CHEST?.... 1 YES 2 NO (12)
(Count phlegm with the first smoke or on first going out-of-doors. Exclude phlegm from the nose. Count swallowed phlegm)

IF YES:

- B. DO YOU USUALLY BRING UP PHLEGM LIKE THIS AS MUCH AS TWICE A DAY, 4 OR MORE DAYS OUT OF THE WEEK?..... 1 YES 2 NO (13)

- C. DO YOU USUALLY BRING UP PHLEGM AT ALL ON GETTING UP, OR FIRST THING IN THE MORNING?..... 1 YES 2 NO (14)

- D. DO YOU USUALLY BRING UP PHLEGM AT ALL DURING THE REST OF THE DAY OR AT NIGHT?..... 1 YES 2 NO (15)

RESPIRATORY

PHLEGM (CON'T)

(If "YES" to 2A, B, C or D - previous page - Ask the following:)

E. DO YOU BRING UP PHLEGM LIKE THIS ON MOST DAYS FOR 3 CONSECUTIVE MONTHS OR MORE DURING THE YEAR?.....	1 <input type="checkbox"/> YES	2 <input type="checkbox"/> NO	9 <input type="checkbox"/> NA	(18)
F. FOR HOW MANY YEARS HAVE YOU HAD TROUBLE WITH PHLEGM?	<input type="text"/> <input type="text"/> (19-20) NO. YRS.		9 <input type="checkbox"/> NA	(21)

EPISODES OF COUGH AND PHLEGM

3A. HAVE YOU HAD PERIODS OR EPISODES OF (increased*) COUGH AND PHLEGM LASTING FOR 3 WEEKS OR MORE EACH YEAR? 1 YES 2 NO (24)

*(For persons who usually have cough and/or phlegm)

IF YES:

B. FOR HOW LONG HAVE YOU HAD AT LEAST 1 SUCH EPISODE PER YEAR?	<input type="text"/> <input type="text"/> (25-26) NO. YEARS	9 <input type="checkbox"/> NA	(27)
--	--	-------------------------------	------

WHEEZING

4A. DOES YOUR CHEST EVER SOUND WHEEZY OR WHISTLING WHEN YOU HAVE A COLD? 1 YES 2 NO (28)

B. OCCASIONALLY APART FROM COLDS?	1 <input type="checkbox"/> YES	2 <input type="checkbox"/> NO	(29)
C. MOST DAYS OR NIGHTS?	1 <input type="checkbox"/> YES	2 <input type="checkbox"/> NO	(30)
<u>IF YES: TO Q's 4A, B or C - ASK</u>			
D. FOR HOW MANY YEARS HAS THIS BEEN PRESENT?	<input type="text"/> <input type="text"/> (31-32) NO. YEARS		9 <input type="checkbox"/> NA (33)

4E. HAVE YOU EVER HAD AN ATTACK OF WHEEZING THAT HAS MADE YOU FEEL SHORT OF BREATH?..... 1 YES 2 NO (34)

IF YES: (37)

F. HOW OLD WERE YOU WHEN YOU HAD YOUR FIRST SUCH ATTACK?	<input type="text"/> <input type="text"/> (35-36) AGE/YRS.		9 <input type="checkbox"/> NA
G. HAVE YOU HAD 2 OR MORE SUCH EPISODES?	1 <input type="checkbox"/> YES	2 <input type="checkbox"/> NO	9 <input type="checkbox"/> NA (38)
H. HAVE YOU EVER REQUIRED MEDICINE OR TREATMENT FOR THE(S) ATTACK(S)?	1 <input type="checkbox"/> YES	2 <input type="checkbox"/> NO	9 <input type="checkbox"/> NA (39)

BREATHLESSNESS

5A. IF YOU ARE DISABLED FROM WALKING BY ANY CONDITION OTHER THAN HEART OR LUNG DISEASE, PLEASE DESCRIBE AND PROCEED TO (section on Chest Colds & Chest Illnesses, 6A - next page)

NATURE OF CONDITION: _____

8. ARE YOU TROUBLED BY SHORTNESS OF BREATH WHEN HURRYING ON THE LEVEL OR WALKING UP A SLIGHT HILL?.....

1 YES
↓

2 NO *40*

IF YES: ASK

C. DO YOU HAVE TO WALK SLOWER THAN PEOPLE OF YOUR AGE ON THE LEVEL BECAUSE OF BREATHLESSNESS?..... 1 YES 2 NO 9 NA *40*

D. DO YOU EVER HAVE TO STOP FOR BREATH WHEN WALKING AT YOUR OWN PACE ON THE LEVEL?..... 1 YES 2 NO 9 NA *40*

E. DO YOU EVER HAVE TO STOP FOR BREATH AFTER WALKING ABOUT 100 YARDS (OR AFTER A FEW MINUTES) ON THE LEVEL?.. 1 YES 2 NO 9 NA *40*

F. ARE YOU TOO BREATHLESS TO LEAVE THE HOUSE OR BREATHLESS ON CRESSING OR UNCRESSING?..... 1 YES 2 NO 9 NA *40*

CHEST COLDS AND CHEST ILLNESSES

6A IF YOU GET A COLD, DOES IT USUALLY GO TO YOUR CHEST? (USUALLY MEANS MORE THAN 1/2 THE TIME.) 1 YES 2 NO 3 NA (42)

3. DURING THE PAST 3 YEARS, HAVE YOU HAD ANY CHEST ILLNESSES THAT HAVE KEPT YOU OFF WORK, INDOORS AT HOME, OR IN BED?..... 1 YES 2 NO (46)

<u>IF YES:</u>		
C. DID YOU PRODUCE PHLEGM WITH ANY OF THESE CHEST ILLNESSES?.....	1 <input type="checkbox"/> YES	2 <input type="checkbox"/> NO 3 <input type="checkbox"/> NA (47)
D. IN THE LAST 3 YEARS, HOW MANY SUCH ILLNESSES, WITH (INCREASED) PHLEGM, DID YOU HAVE WHICH LASTED A WEEK OR MORE?.....	<input type="text"/> <input type="text"/>	NO. OF ILLNESSES (48-49)
	<input type="checkbox"/>	NO SUCH ILLNESSES
	3 <input type="checkbox"/>	NA (50)

PAST ILLNESSES

1. DID YOU HAVE ANY LUNG TROUBLE BEFORE THE AGE OF 16?..... 1 YES 2 NO (51)

2. HAVE YOU EVER HAD ATTACKS OF BRONCHITIS? 1 YES 2 NO (52)

<u>IF YES: ASK</u>		
3. WAS IT CONFIRMED BY A DOCTOR?.....	1 <input type="checkbox"/> YES	2 <input type="checkbox"/> NO 3 <input type="checkbox"/> NA (53)
4. AT WHAT AGE WAS YOUR FIRST ATTACK?..	<input type="text"/> <input type="text"/>	(54-55) AGE/YRS. 3 <input type="checkbox"/> NA (54)

5. HAVE YOU EVER HAD PNEUMONIA? (INCLUDE BRONCHOPNEUMONIA)..... 1 YES 2 NO (57)

<u>IF YES: ASK</u>		
6. WAS IT CONFIRMED BY A DOCTOR?.....	1 <input type="checkbox"/> YES	2 <input type="checkbox"/> NO 3 <input type="checkbox"/> NA (58)
7. AT WHAT AGE DID YOU FIRST HAVE IT?.	<input type="text"/> <input type="text"/>	(59-60) AGE/YRS. 3 <input type="checkbox"/> NA (59)

PAST ILLNESSES

8. HAVE YOU EVER HAD HAY FEVER?.....

1 YES 2 NO (62)

IF YES: ASK

9. WAS IT CONFIRMED BY A DOCTOR?.....

1 YES 2 NO 9 NA (63)

10. AT WHAT AGE DID IT START?.....

(64-65) AGE/YRS. 9 NA (66)

11. HAVE YOU EVER HAD CHRONIC BRONCHITIS?.....

1 YES 2 NO (67)

IF YES: ASK

12. DO YOU STILL HAVE IT?.....

1 YES 2 NO 9 NA (68)

13. WAS IT CONFIRMED BY A DOCTOR?.....

1 YES 2 NO 9 NA (69)

14. AT WHAT AGE DID IT START?.....

(70-71) AGE/YRS. 9 NA (72)

HAVE YOU EVER HAD EMPHYSEMA?.....

1 YES 2 NO (73)

IF YES: ASK

15. DO YOU STILL HAVE IT?.....

1 YES 2 NO 9 NA (6)

16. WAS IT CONFIRMED BY A DOCTOR?.....

1 YES 2 NO 9 NA (7)

17. AT WHAT AGE DID IT START?.....

(8-9) AGE/YRS. 9 NA (10)

18. HAVE YOU EVER HAD ASTHMA?.....

1 YES 2 NO (11)

IF YES: ASK

19. DO YOU STILL HAVE IT?

1 YES 2 NO 9 NA (12)

20. WAS IT CONFIRMED BY A DOCTOR?

1 YES 2 NO 9 NA (13)

21. AT WHAT AGE DID IT START?.....

(14-15) AGE/STARTED 9 NA (14)

22. IF YOU NO LONGER HAVE IT, AT WHAT AGE DID IT STOP?.....

(17-18) AGE/STOPPED 9 NA (15)

23. HAVE YOU EVER HAD ANY OTHER CHEST ILLNESSES?

1 YES 2 NO (20)

IF YES, SPECIFY: _____

PAST ILLNESSES

24. HAVE YOU EVER HAD ANY CHEST OPERATIONS?

1 YES

2 NO (21)

IF YES, SPECIFY: _____

25. HAVE YOU EVER HAD ANY CHEST INJURIES?

1 YES

2 NO (22)

IF YES, SPECIFY: _____

26. HAS A DOCTOR EVER TOLD YOU YOU HAD HEART TROUBLE?

1 YES

2 NO (23)

IF YES, ASK:

26. HAVE YOU HAD TREATMENT FOR HEART TROUBLE
IN THE LAST 10 YEARS?

1 YES

2 NO

9 NA (24)

27. HAS A DOCTOR EVER TOLD YOU THAT YOU HAD HIGH
BLOOD PRESSURE?

1 YES

2 NO (25)

IF YES, ASK:

28. HAVE YOU HAD ANY TREATMENT FOR HIGH
BLOOD PRESSURE (HYPERTENSION) IN THE
PAST 10 YEARS?

1 YES

2 NO

9 NA (26)

OCCUPATIONAL HISTORY

1. IN WHICH FOUNDRY AREA DO YOU CURRENTLY WORK? :

- CORE ROOM 01 (27-28)
- IRON MOLD 02
- NON-FERROUS (ALUMINUM) MOLD 03
- IRON GRIND 04
- NON-FERROUS GRIND 05

2. WHAT SHIFT ARE YOU CURRENTLY WORKING? 1 2 3 (29)

3. WHAT IS YOUR CURRENT JOB TITLE?: _____ CODE: (30-31)

4. WHAT MONTH AND YEAR DID YOU START ON THIS JOB? - (32-35)
MONTH YEAR

5. HAVE YOU HAD ANY OTHER FOUNDRY JOB AT CROUSE-HINDS?..... 1 YES 2 NO (36)

(Complete table below in reverse chronological order)

1. What area did you work in? (Use codes in Q. 1 for recording answer)
2. What was your job?
3. In what month & year did you start on this job?
4. In what month & year did you stop working on this job?

AREA	JOB TITLE	DATES OF EMPLOYMENT	COMMENTS
		<input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> (43-46) MO. YR.	
<input type="text"/> <input type="text"/> (37-38)	<input type="text"/> <input type="text"/> (39-42)	<input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> (47-50) MO. YR.	
		<input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> (57-60) MO. YR.	
<input type="text"/> <input type="text"/> (51-52)	<input type="text"/> <input type="text"/> (53-56)	<input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> (61-64) MO. YR.	
		<input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> (12-15) MO. YR.	
<input type="text"/> <input type="text"/> (6-7)	<input type="text"/> <input type="text"/> (8-11)	<input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> (16-19) MO. YR.	
		<input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> (26-29) MO. YR.	
<input type="text"/> <input type="text"/> (20-21)	<input type="text"/> <input type="text"/> (22-25)	<input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> (30-33) MO. YR.	

OCCUPATIONAL HISTORY

6. HAVE YOU HAD ANY FOUNDRY JOB(S) AT OTHER COMPANIES?..... 1 YES 2 NO (34)

(Complete the table below in reverse chronological order)

1. What type of foundry?
2. What was your job?
3. In what month & year did you start on this job?
4. In what month & year did you stop working on this job?

TYPE OF FOUNDRY	JOB	TENURE FROM/TO	COMMENTS
		MO. YR. - MO. YR.	
		MO. YR. - MO. YR.	
		MO. YR. - MO. YR.	
		MO. YR. - MO. YR.	
		MO. YR. - MO. YR.	
		MO. YR. - MO. YR.	

7. HAVE YOU EVER HAD A JOB WHERE YOU WERE EXPOSED TO ANY OF THE FOLLOWING DUSTS? (FOR EACH "YES", SPECIFY THE INDUSTRY, JOB, AND STARTING & STOPPING DATES)

EXPOSURE	RESPONSE	INDUSTRY	JOB	TENURE FROM/TO	
1. ALUMINUM	1 <input type="checkbox"/> YES →			MO. YR. - MO. YR.	(36-39)
	2 <input type="checkbox"/> NO (35)			MO. YR. - MO. YR.	(40-43)
2. ASBESTOS	1 <input type="checkbox"/> YES →			MO. YR. - MO. YR.	(45-48)
	2 <input type="checkbox"/> NO (44)			MO. YR. - MO. YR.	(49-50)
3. BERYLLIUM	1 <input type="checkbox"/> YES →			MO. YR. - MO. YR.	(54-57)
	2 <input type="checkbox"/> NO (53)			MO. YR. - MO. YR.	(58-61)
4. COAL	1 <input type="checkbox"/> YES →			MO. YR. - MO. YR.	(63-66)
	2 <input type="checkbox"/> NO (62)			MO. YR. - MO. YR.	(67-70)
5. GRAPHITE	1 <input type="checkbox"/> YES →			MO. YR. - MO. YR.	(7-10)
	2 <input type="checkbox"/> NO (6)			MO. YR. - MO. YR.	(11-14)
6. SILICA (Other than foundries)	1 <input type="checkbox"/> YES →			MO. YR. - MO. YR.	(16-19)
	2 <input type="checkbox"/> NO (15)			MO. YR. - MO. YR.	(20-23)

OCCUPATIONAL HISTORY

(FOR EACH "YES", SPECIFY THE INDUSTRY, JOB, AND STARTING AND STOPPING DATES)

EXPOSURE	RESPONSE	INDUSTRY	JOB	TENURE FROM/TO	
7. TALC OR OTHER SILICATES	1 <input type="checkbox"/> YES		_____	<input type="text"/> <input type="text"/> MO. YR.	(25-28)
	2 <input type="checkbox"/> NO (24)	_____	_____	<input type="text"/> <input type="text"/> MO. YR.	(29-32)
8. TUNGSTEN CARBIDE	1 <input type="checkbox"/> YES		_____	<input type="text"/> <input type="text"/> MO. YR.	(34-37)
	2 <input type="checkbox"/> NO (33)	_____	_____	<input type="text"/> <input type="text"/> MO. YR.	(38-41)

TOBACCO SMOKING

1. HAVE YOU EVER SMOKED CIGARETTES?
 (NO MEAN LESS THAN 20 PACKS OF
 CIGARETTES OR 12 OZ. OF TOBACCO
 IN A LIFETIME OR LESS THAN 1
 CIGARETTE A DAY FOR 1 YEAR.)

1 YES 2 NO (42)

(IF NO - END INTERVIEW)

IF YES: ASK

2. DO YOU NOW SMOKE CIGARETTES?
 (AS OF 1 MONTH AGO)

1 YES 2 NO 9 NA (43)

3. HOW OLD WERE YOU WHEN YOU FIRST
 STARTED REGULAR CIGARETTE SMOKING?

AGE/YRS. (44-45) 9 NA (44)

4. IF YOU HAVE STOPPED SMOKING CIGARETTES
 COMPLETELY, HOW OLD WERE YOU WHEN YOU
 STOPPED?

1 STILL SMOKES (47) AGE/STOPPED (48-49)

ASK - PRESENT SMOKER ONLY

5. HOW MANY CIGARETTES PER DAY DO YOU
 SMOKE NOW?

(50-51) CIG./DAY 9 NA (52)

6. ON THE AVERAGE OF THE ENTIRE TIME
 YOU SMOKED, HOW MANY CIGARETTES DID
 YOU SMOKE PER DAY?

(53-54) CIG./DAY 9 NA (53)

7. DO OR DID YOU INHALE THE CIGARETTE SMOKE?

- 1 NOT AT ALL
- 2 SLIGHTLY (56)
- 3 MODERATELY
- 4 DEEPLY
- 9 NOT APPLICABLE

(79-80)

Department of Health, Education and Welfare
Public Health Service
Center for Disease Control
National Institute for Occupational Safety and Health

QUESTIONNAIRE

ASSURANCE OF CONFIDENTIALITY: The United States Public Health Service hereby gives its assurance that your identity and your relationship to any information obtained by reason of your participation in the Shell Study will be kept confidential in accordance with PHS Regulations (42 CFR 1.101-1.108) and will not otherwise be disclosed.

OCCUPATIONAL HISTORY

Now I'm going to ask you about the jobs you've held, since you started working regularly. I'd like to begin with your present job, here at Shell Chemical Co. and go back to your first job.

1. What department do/did you work in?
2. What is/was your occupation or job title?
3. What exactly is/was your main job or activity? (What kind of work do/did you do most of the time?)
4. In what month and year did you start on this job?
5. And in what month and year did you stop working on this job? (DO NOT ASK FOR CURRENT JOB.)
6. Have you held any other jobs at Shell Chemical Co. ?

(ASK Q's 1-5 FOR EACH JOB. RECORD INFORMATION BELOW. ASK Q. 6 UNTIL UNPRODUCTIVE.)

DEPARTMENT	JOB TITLE	DATES OF EMPLOYMENT	WORK DESCRIPTION
		<input type="text"/> - <input type="text"/> (12-15) MO. YR.	
<input type="text"/> (8-7)	<input type="text"/> (8-11)	<input type="text"/> - <input type="text"/> (16-18) MO. YR.	
		<input type="text"/> - <input type="text"/> (26-29) MO. YR.	
<input type="text"/> (20-21)	<input type="text"/> (22-25)	<input type="text"/> - <input type="text"/> (30-33) MO. YR.	
		<input type="text"/> - <input type="text"/> (40-43) MO. YR.	
<input type="text"/> (34-35)	<input type="text"/> (36-39)	<input type="text"/> - <input type="text"/> (44-47) MO. YR.	
		<input type="text"/> - <input type="text"/> (54-57) MO. YR.	
<input type="text"/> (48-49)	<input type="text"/> (50-53)	<input type="text"/> - <input type="text"/> (58-61) MO. YR.	
		<input type="text"/> - <input type="text"/> (68-71) MO. YR.	
<input type="text"/> (62-63)	<input type="text"/> (64-67)	<input type="text"/> - <input type="text"/> (72-75) MO. YR.	
		<input type="text"/> - <input type="text"/> (12-15) MO. YR.	
<input type="text"/> (8-7)	<input type="text"/> (8-11)	<input type="text"/> - <input type="text"/> (16-18) MO. YR.	
		<input type="text"/> - <input type="text"/> (26-29) MO. YR.	
<input type="text"/> (20-21)	<input type="text"/> (22-25)	<input type="text"/> - <input type="text"/> (30-33) MO. YR.	

OCCUPATIONAL HISTORY - PREVIOUS EMPLOYMENT

1 YES 2 NO

1. What is the name of the company?
 2. What kind of company (was) is it; what do they (did) do there? (6)
 3. In what year did he start working there?
 4. And, in what year did he stop working there?
 5. What was his occupation or job title?
 6. What exactly was his main job or activity?
(What kind of work did he do most of the time?)
 7. Did he work in any area where he was exposed to dust, fumes, gases, chemicals, or other substances?
- IF YES: 8. What was he exposed to? _____
9. Can you think of any other jobs?
(REPEAT Q's 2-8 FOR EACH JOB. REPEAT Q. 9 UNTIL YOU ASCERTAIN THAT YOU HAVE RECORDED ALL OF THE HUSBAND'S JOBS.)

NAME OF EMPLOYER	TYPE COMPANY	TENURE FROM/TO	JOB TITLE	WORK DESCRIPTION	EXPOSURES								
		<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td style="font-size: 8px;">MO.</td> <td style="font-size: 8px;">YR.</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td style="font-size: 8px;">MO.</td> <td style="font-size: 8px;">YR.</td> </tr> </table>			MO.	YR.			MO.	YR.			
MO.	YR.												
MO.	YR.												
(7)		(8-15)		<table style="margin-left: auto;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td colspan="3" style="font-size: 8px; text-align: center;">(16-21)</td> </tr> </table>					(16-21)				
(16-21)													

NAME OF EMPLOYER	TYPE COMPANY	TENURE FROM/TO	JOB TITLE	WORK DESCRIPTION	EXPOSURES								
		<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td style="font-size: 8px;">MO.</td> <td style="font-size: 8px;">YR.</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td style="font-size: 8px;">MO.</td> <td style="font-size: 8px;">YR.</td> </tr> </table>			MO.	YR.			MO.	YR.			
MO.	YR.												
MO.	YR.												
(22)		(23-30)		<table style="margin-left: auto;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td colspan="3" style="font-size: 8px; text-align: center;">(31-36)</td> </tr> </table>					(31-36)				
(31-36)													

NAME OF EMPLOYER	TYPE COMPANY	TENURE FROM/TO	JOB TITLE	WORK DESCRIPTION	EXPOSURES								
		<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td style="font-size: 8px;">MO.</td> <td style="font-size: 8px;">YR.</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td style="font-size: 8px;">MO.</td> <td style="font-size: 8px;">YR.</td> </tr> </table>			MO.	YR.			MO.	YR.			
MO.	YR.												
MO.	YR.												
(37)		(38-45)		<table style="margin-left: auto;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td colspan="3" style="font-size: 8px; text-align: center;">(46-51)</td> </tr> </table>					(46-51)				
(46-51)													

NAME OF EMPLOYER	TYPE COMPANY	TENURE FROM/TO	JOB TITLE	WORK DESCRIPTION	EXPOSURES								
		<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td style="font-size: 8px;">MO.</td> <td style="font-size: 8px;">YR.</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td style="font-size: 8px;">MO.</td> <td style="font-size: 8px;">YR.</td> </tr> </table>			MO.	YR.			MO.	YR.			
MO.	YR.												
MO.	YR.												
(52)		(53-60)		<table style="margin-left: auto;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td colspan="3" style="font-size: 8px; text-align: center;">(61-66)</td> </tr> </table>					(61-66)				
(61-66)													

First 3 ltrs last name / / / 0/6/ (76-80)

OCCUPATIONAL HISTORY (Con't)

- | | | | | MO. | YR. |
|--|-----------|----------|----------|---------------------|-------|
| 7. Have you ever worked in the vicinity of a DBCP drumming operation? | 1/___/YES | 2/___/NO | 8/___/DK | FROM: /___/ - /___/ | 7-10 |
| | | (6) | | TO: /___/ - /___/ | 11-15 |
| 8. Have you ever worked in the vicinity of DBCP production? | 1/___/YES | 2/___/NO | 8/___/DK | FROM: /___/ - /___/ | 16-19 |
| | | (15) | | TO: /___/ - /___/ | 20-23 |
| 9. Have you ever been exposed to a DBCP spill? | 1/___/YES | 2/___/NO | 8/___/DK | FROM: /___/ - /___/ | 25-28 |
| | | (24) | | TO: /___/ - /___/ | 29-32 |
| 10. Did any of the DBCP chemical get on your skin? | 1/___/YES | 2/___/NO | 8/___/DK | FROM: /___/ - /___/ | 34-37 |
| | | (22) | | TO: /___/ - /___/ | 38-41 |
| 11. Do you have any health problems that you feel are related to substances or physical agents present in your work environment? | 1/___/YES | 2/___/NO | 8/___/DK | | (42) |

COMMENTS: _____

CODE: /___/___/ (43-44)

First 3 ltrs last name /___/___/ 0 / 7/ (76-80)

DATES OF EMPLOYMENT "In what month and year did you start working with this?"

"And in what month and year did you stop working with this?"

SUBSTANCE	RESPONSE	DATES OF EMPLOYMENT	SUBSTANCE	RESPONSE	DATES OF EMPLOYMENT
1. Weed killers	1 <input type="checkbox"/> YES	7-10		1 <input type="checkbox"/> YES	(61-64)
	2 <input type="checkbox"/> NO	MO. YR.		2 <input type="checkbox"/> NO	MO. YR.
	8 <input type="checkbox"/> DK	MO. YR.		8 <input type="checkbox"/> DK	MO. YR.
	(6)	11-14		(60)	(65-68)
2. Pesticides	1 <input type="checkbox"/> YES	16-19		1 <input type="checkbox"/> YES	(17-19)
	2 <input type="checkbox"/> NO	MO. YR.		2 <input type="checkbox"/> NO	MO. YR.
	8 <input type="checkbox"/> DK	MO. YR.		8 <input type="checkbox"/> DK	MO. YR.
	(15)	20-23		(6)	(11-14)
3. Chemicals	1 <input type="checkbox"/> YES	25-28		1 <input type="checkbox"/> YES	(16-19)
	2 <input type="checkbox"/> NO	MO. YR.		2 <input type="checkbox"/> NO	MO. YR.
	8 <input type="checkbox"/> DK	MO. YR.		8 <input type="checkbox"/> DK	MO. YR.
	(24)	29-32		(15)	(20-23)
4. Degreasers or other solvents	1 <input type="checkbox"/> YES	34-37		1 <input type="checkbox"/> YES	(25-28)
	2 <input type="checkbox"/> NO	MO. YR.		2 <input type="checkbox"/> NO	MO. YR.
	8 <input type="checkbox"/> DK	MO. YR.		8 <input type="checkbox"/> DK	MO. YR.
	(33)	38-41		(24)	(29-32)
5. Ionizing Radiation	1 <input type="checkbox"/> YES	43-46		1 <input type="checkbox"/> YES	(34-37)
	2 <input type="checkbox"/> NO	MO. YR.		2 <input type="checkbox"/> NO	MO. YR.
	8 <input type="checkbox"/> DK	MO. YR.		8 <input type="checkbox"/> DK	MO. YR.
	(42)	47-50		(33)	(38-41)

First 3 ltrs last name / / / 0/ 8/ (76-80)

MEDICATIONS

Now I'm going to read a list of medications. In the last three months, have you taken any of the following medicines?

<p>1. Oral contraceptives, birth control pills, pills to regulate periods, or medicines for hot flashes (6)</p>	<p>1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK</p>	<p>Name: _____ _____ _____</p>	<p>____-____ (7-10) ____-____ (11-14)</p>
<p>2. Estrogens, female hormones (15)</p>	<p>1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK</p>	<p>Name: _____ _____ _____</p>	<p>____-____ (16-19) ____-____ (20-23)</p>
<p>3. Steroids, corti-steroids (24)</p>	<p>1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK</p>	<p>Name: _____ _____ _____</p>	<p>____-____ (25-28) ____-____ (29-32)</p>
<p>4. Androgens, male hormones, testosterone (33)</p>	<p>1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK</p>	<p>Name: _____ _____ _____</p>	<p>____-____ (34-37) ____-____ (38-41)</p>
<p>5. Thyroid pills (42)</p>	<p>1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK</p>	<p>Name: _____ _____ _____</p>	<p>____-____ (43-46) ____-____ (47-50)</p>
<p>6. Insulin (51)</p>	<p>1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK</p>	<p>Name: _____ _____ _____</p>	<p>____-____ (52-55) ____-____ (56-59)</p>

MEDICATIONS

Now I'm going to read a list of medications. In the last three months, have you taken any of the following medicines?

<p>7. Pills for diabetes</p> <p>/ / / / 0 / 9 / (76-80) (60)</p>	<p>1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>8 <input type="checkbox"/> DK</p>	<p>Name: _____</p> <p>_____</p> <p>_____</p>	<p><input type="text"/>-<input type="text"/></p> <p>(61-64)</p> <p><input type="text"/>-<input type="text"/></p> <p>(65-68)</p>
<p>8. Diet pills prescribed for weight control</p> <p>(6)</p>	<p>1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>8 <input type="checkbox"/> DK</p>	<p>Name: _____</p> <p>_____</p> <p>_____</p>	<p><input type="text"/>-<input type="text"/></p> <p>(9-10)</p> <p><input type="text"/>-<input type="text"/></p> <p>(11-14)</p>
<p>9. Diuretics or water pills</p> <p>(13)</p>	<p>1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>8 <input type="checkbox"/> DK</p>	<p>Name: _____</p> <p>_____</p> <p>_____</p>	<p><input type="text"/>-<input type="text"/></p> <p>(16-19)</p> <p><input type="text"/>-<input type="text"/></p> <p>(20-23)</p>
<p>10. Pills for gout</p> <p>(24)</p>	<p>1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>8 <input type="checkbox"/> DK</p>	<p>Name: _____</p> <p>_____</p> <p>_____</p>	<p><input type="text"/>-<input type="text"/></p> <p>(25-28)</p> <p><input type="text"/>-<input type="text"/></p> <p>(29-32)</p>
<p>11. Medicines for high cholesterol or high triglycerides</p> <p>(35)</p>	<p>1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>8 <input type="checkbox"/> DK</p>	<p>Name: _____</p> <p>_____</p> <p>_____</p>	<p><input type="text"/>-<input type="text"/></p> <p>(36-37)</p> <p><input type="text"/>-<input type="text"/></p> <p>(38-41)</p>
<p>12. High blood pressure pills</p> <p>(42)</p>	<p>1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>8 <input type="checkbox"/> DK</p>	<p>Name: _____</p> <p>_____</p> <p>_____</p>	<p><input type="text"/>-<input type="text"/></p> <p>(43-46)</p> <p><input type="text"/>-<input type="text"/></p> <p>(47-50)</p> <p><input type="text"/>-<input type="text"/></p> <p>(51-54)</p>

MEDICATIONS

Now I'm going to read a list of medications. In the last three months, have you taken any of the following medicines?

<p>13. Anticoagulants or blood thinners</p> <p style="text-align: right;">(55)</p>	<p>1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>8 <input type="checkbox"/> DK</p> <p style="text-align: right;">(51)</p>	<p>Name: _____</p> <p>_____</p> <p>_____</p>	<p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(56-59)</p> <p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(60-63)</p>
<p>14. Phenothiazine medicines, like thorazine, trilafon, stelazine, prolixin or mellaril</p> <p>/ / / / 1 / 0 / (76-80) (64)</p>	<p>1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>8 <input type="checkbox"/> DK</p> <p style="text-align: right;">(42)</p>	<p>Name: _____</p> <p>_____</p> <p>_____</p>	<p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(65-68)</p> <p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(69-72)</p>
<p>15. Heart regulating medicines. Things for irregular heart beats, like nitroglycerine or digitalis.</p> <p style="text-align: right;">(6)</p>	<p>1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>8 <input type="checkbox"/> DK</p> <p style="text-align: right;">(33)</p>	<p>Name: _____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(7-10)</p> <p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(11-14)</p> <p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(15-18)</p>
<p>16. Have you taken any other medication in the last three (3) months?</p> <p style="text-align: right;">(19)</p> <p>/ / / / 1 / 1 / (76-80)</p>	<p>1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>8 <input type="checkbox"/> DK</p> <p style="text-align: right;">(24)</p>	<p>Name: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(20-23)</p> <p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(24-27)</p> <p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(28-31)</p> <p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(32-35)</p> <p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(36-39)</p> <p><input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/></p> <p style="text-align: center;">(40-43)</p>

WEIGHT HISTORY

1. Has your weight changed in the past two weeks? NO..... 1
 GAINED..... 2
 LOST..... 3
 (DON'T KNOW)..... 8 (6)

IF GAINED OR LOST ASK:

2. What was the net change in pounds?..... LBS. (7-9)
3. How many pounds did you weigh when you were 18?..... LBS. (10-12)
4. What is the most you have ever weighed (excluding pregnancies)?..... LBS. (13-15)

HEALTH HISTORY

I'm now going to read a list of health conditions. Have you ever been told by a doctor that you had any of the following conditions. Please answer YES or NO to each one.

(READ EACH CONDITION AND RECORD A RESPONSE. IF YES, ASK THE SECONDARY QUESTION)

IF YES ASK:

DATE: In what year were you first told about this condition?

CONDITION	RESPONSE	DATE	
1. Kidney or bladder condition	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (16)	19 <input type="text"/> <input type="text"/> (17-18)	What kind of a kidney condition? SPECIFY: _____ CODE: <input type="text"/> (19-20) <input type="text"/> (21-22)
2. Heart Attack	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 3 <input type="checkbox"/> MULT. 8 <input type="checkbox"/> DK (23)	19 <input type="text"/> <input type="text"/> (24-25)	
3. Angina or angina pectoris	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (26)	19 <input type="text"/> <input type="text"/> (27-28)	

SECONDARY QUESTION

IF YES ASK:

DATE

In what year were you first told about this condition?

CONDITION	RESPONSE	DATE	
4. Any other cardiovascular disease	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (39)	19 <input type="text"/> (30-31)	What kind of cardiovascular disease? SPECIFY: _____ CODE: <input type="text"/> <input type="text"/> (32-33)
5. HIGH cholesterol	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (34)	19 <input type="text"/> (35-36)	
6. High triglycerides	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (37)	19 <input type="text"/> (37-38)	
7. Liver condition or jaundice	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (40)	19 <input type="text"/> (41-42)	IF YES: What kind of liver condition? 1 <input type="checkbox"/> Hepatitis 3 <input type="checkbox"/> Cirrhosis 2 <input type="checkbox"/> Enlarged liver 4 <input type="checkbox"/> Other Specify _____ (43)

IF YES ASK:

TREATMENT: Did you receive medical or surgical treatment (for this condition?)

IF YES ASK:

DATE:

In what year were you first treated (for this condition?)

CONDITION	TOLD? RESPONSE	TREATED? RESPONSE	TREATMENT DATE
8. High blood pressure	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (44)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (45)	19 <input type="text"/> (46-47)

IF YES ASK:

TREATMENT: Did you receive medical or surgical treatment (for this condition?)

IF YES ASK:

DATE: In what year were you first treated (for this condition?)

CONDITION	TOLD? RESPONSE	TREATED? RESPONSE	TREATMENT DATE	
9. Cancer	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (48)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (49)	19 <input type="text"/> <input type="text"/> (50-51)	<p>IF YES: What type of cancer? (52-53)</p> <p>SPECIFY SITE: _____ CODE: / / /</p> <p>Were you treated with: (54-56)</p> <p>Chemotherapy? 1 / / Surgery 3 / /</p> <p>Radiotherapy? 2 / / (Can be all three)</p>

10. Asthma	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (57)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (58)	19 <input type="text"/> <input type="text"/> (59-60)	
------------	--	--	---	--

11. Stroke	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (61)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (62)	19 <input type="text"/> <input type="text"/> (63-64)	
------------	--	--	---	--

QUES. 12-14 ARE FOR MALE RESPONDENTS ONLY

12. Mumps	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (65)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (66)	19 <input type="text"/> <input type="text"/> (67-68)	<p>IF YES ASK: Did the mumps involve your testicles?</p> <p>1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (69)</p> <p>/ / / / 1 / 2 / (76-80)</p>
-----------	--	--	---	---

13. Prostate Infection	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (6)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (7)	19 <input type="text"/> <input type="text"/> (8-9)	
------------------------	---	---	---	--

14. Epididymitis (testicular pain & swelling)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (10)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (11)	19 <input type="text"/> <input type="text"/> (12-13)	
---	--	--	---	--

IF YES ASK:

TREATMENT: Did you receive medical or surgical treatment (for this condition?)

IF YES ASK:

DATE: In what year were you first treated (for this condition?)

CONDITION	TOLD? RESPONSE	TREATED? RESPONSE	TREATMENT DATE	
15 Thyroid condition	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (14)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (15)	19 <input type="text"/> <input type="text"/> (16-17)	
16 Gall bladder condition	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (18)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (19)	19 <input type="text"/> <input type="text"/> (20-21)	
17 Diabetes	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (22)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (23)	19 <input type="text"/> <input type="text"/> (24-25)	
18 Anemia	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (26)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (27)	19 <input type="text"/> <input type="text"/> (28-29)	
19 Ulcers	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (30)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (31)	19 <input type="text"/> <input type="text"/> (32-33)	
20 Arthritis or rheumatism	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (34)	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (35)	19 <input type="text"/> <input type="text"/> (36-37)	

CONDITION	RESPONSE	DATE	
21. Have you ever had a hernia operation?	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO 8 <input type="checkbox"/> DK (38)	19 <input type="text"/> <input type="text"/> (39-40)	Which side: 1/___/RIGHT 2/___/LEFT (41)

22 In the last five years, were you hospitalized for any other illness or injury? 1 YES 2 NO (42)

IF YES ASK:

CONDITION Why were you hospitalized?
 DATE In what year were you hospitalized?

CONDITION	DATE
23. _____ _____ _____	19 <input type="text"/> <input type="text"/> (45-46)
<input type="text"/> <input type="text"/>	(43-44)

CONDITION	DATE
25. _____ _____ _____	19 <input type="text"/> <input type="text"/> (49-50)
<input type="text"/> <input type="text"/>	(47-48)

CONDITION	DATE
27. _____ _____ _____	19 <input type="text"/> <input type="text"/> (53-54)
<input type="text"/> <input type="text"/>	(51-52)

CONDITION	DATE
24. _____ _____ _____	19 <input type="text"/> <input type="text"/> (57-58)
<input type="text"/> <input type="text"/>	(55-56)

CONDITION	DATE
26 _____ _____ _____	19 <input type="text"/> <input type="text"/> (61-62)
<input type="text"/> <input type="text"/>	(59-60)

CONDITION	DATE
28 _____ _____ _____	19 <input type="text"/> <input type="text"/> (65-66)
<input type="text"/> <input type="text"/>	(63-64)

First 3 ltrs last name /___/___/___ / 1 / 3 / (76-80)

FAMILY HISTORY

1. Is your father alive? 1 YES 2 NO 8 DK (6)
2. Is your mother alive? 1 YES 2 NO 8 DK (7)
3. How old is your father? or (How old was your father when he died?) AGE (8-9)
4. How old is your mother? or (How old was your mother when she died?) AGE (10-11)
5. What is the total number of children you have had, not including step children, foster children, or children by adoption? CHILDREN (12-13)

7. What is the total number of brothers, sisters, half-brothers, and half-sisters you have had? BROTHERS/SISTERS (14-15)

IF SUBJECT HAS BROTHERS OR SISTERS ASK:

8. Of these, how many are living? BRO/SIS LIVING (16-17)

Has (Did) your father had (have) any of the following disorders?

1. Heart attack or angina? 1 YES 2 NO 8 DK (18)

IF YES ASK:

2. Did this occur before he was 60? 1 YES 2 NO 8 DK (19)

3. High blood pressure or hypertension? 1 YES 2 NO 8 DK (20)

4. High cholesterol, high triglycerides or high blood fats? 1 YES 2 NO 8 DK (21)

FAMILY HISTORY (Continued)

5. Strokes, apoplexy, cerebral vascular disease? 1 YES 2 NO 8 DK (22)

6. Diabetes? 1 YES 2 NO 8 DK (23)

Has (did) your mother had (have) any of the following disorders?

7. Heart attack or angina? 1 YES 2 NO 8 DK (24)



IF YES ASK:

8. Did this occur before she was 60? 1 YES 2 NO 8 DK (25)

9. High blood pressure or hypertension? 1 YES 2 NO 8 DK (26)

10. Strokes, apoplexy, cerebral vascular disease? 1 YES 2 NO 8 DK (27)

11. High cholesterol, high triglycerides, or high blood fats? 1 YES 2 NO 8 DK (28)

12. Diabetes? 1 YES 2 NO 8 DK (29)

(IF SUBJECT HAS NO CHILDREN: GO TO Q. 18).

How many of your children whether living or not, have had the following disorders?

13. Heart attack or angina before age 60? (30-31)

14. High blood pressure or hypertension? (32-33)

15. Strokes, apoplexy, cerebral vascular disease? (34-35)

16. High cholesterol, high triglycerides, or high blood fats? (36-37)

17. Diabetes? (38-39)

FAMILY HISTORY (Continued)

(IF SUBJECT HAS NO BROTHERS, HALF-BROTHERS, SISTERS, OR HALF-SISTERS: GO TO Q. 23.)

How many of your brothers and sisters, or half-brothers and half-sisters, whether living or not, have had the following disorders?

18. Heart attack or angina before 60? (40-41)
19. High blood pressure or hypertension? (42-43)
20. Strokes, apoplexy, cerebral vascular disease? (44-45)
21. High cholesterol, high triglycerides, or high blood fats? (46-47)
22. Diabetes? (48-49)

READ: For some health problems it is important to know whether the father and mother were related to each other before they married. For this reason, we are asking the next two questions.

23. Are your parents (not step-, foster or adoptive) first or second cousins to each other? 1 YES 2 NO 8 DK (50)
24. Are you a first or second cousin to your present spouse? 1 YES 2 NO 8 DK (51)

First 3 ltrs last name / _ / _ / 1 / 4 / (76-80)

In this part of the interview, I'll be asking you about your social habits.

SMOKING HISTORY

1. Do you now smoke cigarettes? 1 YES 2 NO (6)

IF NO:

2. Have you ever smoked cigarettes? 1 YES 2 NO 7

IF NO TO Q. 1 AND Q. 2: GO TO ALCOHOL CONSUMPTION

ASK EX-SMOKERS:

3. How old were you when you gave up smoking cigarettes? AGE (8-9)

4. How old were you when you started smoking cigarettes regularly? AGE (10-11)

5. On the average, how many cigarettes do/did you smoke a day? CIG/DAY (12-13)

6. Do/did you inhale the cigarette smoke? 1 YES 2 NO (14)

ALCOHOL CONSUMPTION

READ: Since lipid levels may be affected by the consumption of alcoholic beverages, everyone is being asked the following question or questions concerning alcohol consumption.

1. During the past year, have you had at least one drink of beer, wine, or liquor? 1 YES 2 NO (15)

(IF NO: END INTERVIEW)

2. About how often do you drink some kind of alcoholic beverage?

Daily or almost every day? 1 (16)

Three or four times a week? 2 (17)

Once or twice a week? 3 (18)

Once or twice a month? 4 (19)

Less often than once a month? 5 (20)

(DON'T KNOW). 6 (21)

ALCOHOL CONSUMPTION (Continued)

3. When you drink beer, about how many bottles or cans of beer do you drink? BEER (22-23)
4. When you drink wine, about how many glasses of wine do you drink? WINE (24-25)
5. When you drink highballs, cocktails, or mixed drinks, about how many do you drink? COCKTAILS (26-27)
6. When you drink liqueurs or other alcoholic drinks, about how many do you drink? LIQUEURS (28-29)
7. During this past week about how many bottles or cans of beer did you drink? BEER (30-31)
8. During this past week, about how many glasses of wine did you drink? WINE (32-33)
9. During this past week, about how many highballs, cocktails or mixed drinks did you have? COCKTAILS (34-35)
10. During this past week, about how many drinks of liqueurs or other alcoholic beverages did you drink? LIQUEURS (36-37)

First 3 ltrs last name / / / 1 / 5 / (76-80)

FOR FEMALE RESPONDENTS ONLY

MENSTRUAL HISTORY

Now I'm going to ask you a few questions about your menstrual periods.

1. How old were you when you had your first period? AGE (6-7)

2. Are you still having periods at all? 1 YES 2 NO (8)

IF NO:

3. At what age did you have your last period? AGE (9-10)

4. Did your periods: stop naturally? 1

stop due to surgery 2

stop due to radiation? 3

stop due to other reason? 4

stop for some unknown reason? 5

(11)

IF "OTHER REASON": Specify _____

IF YES:

5. About how many days are there from the first day of one period to the first day of your next period? DAYS (12-13)

6. About how many days does your period last, that is until the bleeding completely stops? DAYS (14-15)

ASK ALL RESPONDENTS

7. Since leaving high school, have you noticed any of the following changes in your menstrual cycle? Irregular periods? 1 YES 2 NO (16)

Skipping periods? 1 YES 2 NO (17)

Increased flow? 1 YES 2 NO (18)

Decreased flow? 1 YES 2 NO (19)

Increased pain or cramping? 1 YES 2 NO (20)

Some other change? 1 YES 2 NO (21)

IF "OTHER CHANGE": Specify _____

NO CHANGE 1 YES 2 NO (22)

MENSTRUAL HISTORY (Cont'd)

IF ANY REPORTED CHANGE

8. In what year did you first notice this change? 19 (23-24)

9. About how long did you have this? MONTHS (25-27)

10. When you first noticed this, were you taking birth control pills? 1 YES 2 NO (28)

IF YES: 11. About how many months had you been taking the pill? .. MONTHS (29-31)

IF NOT TAKING THE PILL:

12. Did you have an IUD when you first noticed this change? 1 YES 2 NO (32)

IF YES: 13. About how many months had you had your IUD? MONTHS (33-35)

First 3 ltrs last name 1/1/1/4/0 (76-80)

FOR FEMALE RESPONDENTS ONLY

Now I will ask you some questions about some possible physical changes which people may occasionally have.

1. Have you noticed any increase in your facial hair 1 /__/ YES 2 /__/ NO 8 /__/ DK (36)

IF YES:

2. Date first noticed /__/__/ - /__/__/ (37-40)
Month Year

3. Have you noticed any increase in your body hair? 1 /__/ YES 2 /__/ NO 8 /__/ DK (41)

IF YES:

4. Date first noticed /__/__/ - /__/__/ (42-45)
Month Year

5. Have you noticed any change in your breast size? 1 /__/ YES 2 /__/ NO 8 /__/ DK (46)

IF YES:

6. What type of change 1 /__/ Increase? 2 /__/ Decreased? (47)

7. Date first noticed /__/__/ - /__/__/ (48-51)
Month Year

8. Have you noticed any change in your muscle size? 1 /__/ YES 2 /__/ NO 8 /__/ DK (52)

IF YES:

9. Describe: _____

CODE: / / / (53-54)

Now I am going to ask you a question of a general nature.

10. Have you ever traveled in the tropics? 1 /__/ YES 2 /__/ NO 8 /__/ DK (55)

IF YES:

11. Where? _____ CODE: / / / (56-57)

12. When? /__/__/ - /__/__/ (58-61)
Month Year

First 3 ltrs last name /__/__/ / 1 / 6 / (76-80)

FOR MALE RESPONDENTS ONLY

Now I will ask you some questions about some possible physical changes which people may occasionally have.

1. Have you noticed any decrease in your facial hair, in your beard? 1/___/YES 2/___/NO 8/___/DK (6)

IF YES:

2. Date first noticed: /___/___/-/___/___/ (7-10)
Mo. Yr.

3. Have you noticed any decrease in your body hair? 1/___/YES 2/___/NO 8/___/DK (11)

IF YES:

4. Date first noticed: /___/___/-/___/___/ (12-15)
Mo. Yr.

5. Have you noticed any change in your breast size? 1/___/YES 2/___/NO 8/___/DK (16)

IF YES:

6. Date first noticed: /___/___/-/___/___/ (17-20)
Mo. Yr.

7. Type of change 1/___/Increase 2/___/Decrease (21)

8. Have you noticed any loss in your muscle size? 1/___/YES 2/___/NO 8/___/DK (22)

IF YES: SPECIFY _____ CODE: / / / (23-24)

Now I am going to ask you a question of a general nature.

9. Have you ever traveled in the tropics? 1/___/YES 2/___/NO 8/___/DK (25)

IF YES:

10. Where? _____ CODE: / / / (26-27)

11. When? /___/___/-/___/___/ (28-31)
Mo. Yr.

First 3 ltrs last name /___/___/___/1/7/

ASK FOR ALL MARRIAGES:

Marriage Date: /__/_/-/__/_/ (6-9)
Mo. Yr.

II. PREVIOUS SPOUSE

- 1. Have you had trouble having a family? 1/___/YES 2/___/NO 8/___/DK (13)
- 2. How many children were born alive in this marriage? /___/No. of children (14-15)
- 3. What are the birth dates of your 4 youngest children born during this marriage?

1/___/-/___/ 2/___/-/___/ 3/___/-/___/ 4/___/-/___/
 Mo. Yr. Mo. Yr. Mo. Yr. Mo. Yr.
 (16-19) (20-23) (24-27) (28-31)

- 4. How many miscarriages or spontaneous abortions occurred? /___/No. (32-33)
- 5. Date(s): 1/___/-/___/ 2/___/-/___/ 3/___/-/___/
 Mo. Yr. Mo. Yr. Mo. Yr.
 (34-37) (38-41) (42-45)
- 6. How many stillbirths occurred? /___/No. of stillbirths (46-47)
- 7. Date(s): 1/___/-/___/ 2/___/-/___/ 3/___/-/___/
 Mo. Yr. Mo. Yr. Mo. Yr.
 (48-51) (52-55) (56-59)
- 8. How many children, born alive, were born with a defect? /___/No. of children (60-61)
- 9. Specify type of birth defect or malformation and the date of birth: /___/ / 2 / 0 /

Type: _____ Type: _____

Birth date: /___/-/___/ (6-9) Birth date: /___/-/___/ (14-17)
 Mo. Yr. Mo. Yr.

CODE: /___/ /___/ (10-13) CODE: /___/ /___/ (18-21)

- 10. What is the birth date of your spouse? /___/-/___/ (22-25)
 Mo. Yr.

- 11. Do you or your spouse use anything to prevent pregnancy?..... 1/___/YES 2/___/NO 8/___/DK (26)

IF YES:

- 12. What were or are you using? 1/___/PILL 2/___/IUD 3/___/DIAPHRAGM (27)
- 4/___/HYSTERECTOMY 5/___/TUBES TIED 6/___/OTHER: _____

First 3 ltrs last name /___/ / 2 / / / (76-80) Specify CODE: /___/ / (28-29)

ASK FOR ALL MARRIAGES:

(6-9)

III. PREVIOUS SPOUSE

Marriage Date: / / - / - / / /
Mo. Yr.

- 1. Have you had trouble having a family? 1/ /YES 2/ /NO 8/ /DK (13)
- 2. How many children were born alive in this marriage? / / / / No. of children (14-15)
- 3. What are the birth dates of your 4 youngest children born during this marriage?

1/ / / - / / / / 2/ / / - / / / / 3/ / / - / / / / 4/ / / - / / / /
 Mo. Yr. Mo. Yr. Mo. Yr. Mo. Yr.
 (16-19) (20-23) (24-27) (28-31)

- 4. How many miscarriages or spontaneous abortions occurred? / / / / No. (32-33)
- 5. Date(s): 1/ / / - / / / / 2/ / / - / / / / 3/ / / - / / / /
 Mo. Yr. Mo. Yr. Mo. Yr.
 (34-37) (38-41) (42-45)
- 6. How many stillbirths occurred? / / / / No. of stillbirths (46-47)
- 7. Date(s): 1/ / / - / / / / 2/ / / - / / / / 3/ / / - / / / /
 Mo. Yr. Mo. Yr. Mo. Yr.
 (48-51) (52-55) (56-59)
- 8. How many children, born alive, were born with a defect? / / / / No. of children (60-61)
- 9. Specify type of birth defect or malformation and the date of birth: / / / / / / / /

Type: _____ Type: _____

Birth date: / / / - / / / / (6-9) Birth date: / / / - / / / / (14-17)
 Mo. Yr. Mo. Yr.
 CODE: / / / / / / / / (10-13) CODE: / / / / / / / / (18-21)

- 10. What is the birth date of your spouse? / / / - / / / / (22-25)
 Mo. Yr.
- 11. Do you or your spouse use anything to prevent pregnancy?..... 1/ /YES 2/ /NO 8/ /DK (26)

IF YES:
 12. What were or are you using? 1/ /PILL 2/ /IUD 3/ /DIAPHRAGM (27)
 4/ /HYSTERECTOMY 5/ /TUBES TIED 6/ /OTHER: _____

Specify CODE: / / / /
 (28-29)

First 3 ltrs last name / / / - / / / / 2 / 3 / (76-80)

TMI WORKER REGISTRY CONSENT FORM

Background Information

In April 1979 the Nuclear Regulatory Commission (NRC) and the National Institute for Occupational Safety and Health (NIOSH) began a cooperative effort to establish a registry of workers at the Three Mile Island (TMI) nuclear facility. The purpose of the registry is to assure that all the necessary information is available for a possible epidemiological study of long-term health effects in workers at this facility. The types of information needed include medical examination data, medical history, exposure data, occupational history and some personal identifiers.

Since the TMI worker registry is designed to provide data for a possible future epidemiological study of the large TMI worker population, there would be no immediate personal benefit to any particular individual listed in the registry. However, it is hoped that the combined information from many workers at several facilities would provide information on possible health effects in workers in nuclear industries. This information may eventually benefit the workers listed in the TMI registry, as well as many other nuclear workers. This type of data would be valuable to the NRC in determining whether its regulatory policies adequately protect the health of the worker at NRC-licensed facilities.

You, as a worker, must voluntarily agree to have certain information about yourself included in the data for a health effects study. Metropolitan Edison will consider as confidential all medical and other personal information that you provide to them. If the Federal government proceeds with an epidemiological study, this information will be considered confidential in accordance with the Privacy Act of 1974 (Public Law 93-579). Information gathered for the registry will be used for statistical purposes only. No

personal information on the workers will ever be disclosed.

Consent

I have read the above background information on the TMI worker registry and understand the purpose of the registry.

I understand that the registry will include information on my medical examinations, medical history, occupational history, radiation exposure records and some personal identifiers (necessary to locate workers in long-term health effects studies).

I understand that my signature on this form indicates my willingness to provide the information necessary for a possible long-term health effects study of the TMI worker population.

All of my present questions about the TMI worker registry have been answered to my satisfaction. Future questions can be directed to the Nuclear Regulatory Commission, Office of Standards Development, Chief, Radiological Health Standards Branch, Washington, D.C. 20555, (301-443-5860).

Signature _____ Date _____

Name _____
(Please print)

Address _____

A copy of this form will be provided for your own records.