

the oven.

POST-EVENT:

No injuries occurred. The 57-year old female had stepped to the left of the oven just prior incident.

The glass pan and cake were lost. No damage appeared on or in the oven.

PRODUCT INFORMATION/IDENTIFICATION:

The jagged glass fragments and cake pieces were photographed. The smaller glass pan of the 2-pan set was also examined. Complete labeling located on the reverse side of the smaller pan is as follows:

Anchor Ovenware
BAKING DISH
8 X 11.5 X 2 in 2 Qt
200 X 290 X 50 mm
Oven and Microwave Safe
USA 13 1031
No Stovetop or Broiler Use

Partial labeling from a fragment of the shattered glass pan is as follows:

Anchor Ovenware
BAKING DISH
9.5 X 13.5 X 2 in 3 Qt
??1040

CPSC reference material indicate the manufacturer of these glass products to be ANCHOR HOCKING GLASS CORP., LANCASTER, OHIO.

The brand name and manufacturer of the gas oven/range is as follows:

O'Keefe & Merritt
The Tappan Company
Mansfield, Ohio

Serial Number: 366868-00/02008-380118007

STANDARDS INFORMATION:
None.

Task #910122CWE7008

Page 4

EXHIBITS:

Investigation Guideline #6
Adjusted Record Data Sheet/Cooking Material Explosion
Photos
Negatives
Authorization for Release of Name
Incident Report

CONTACT

Consumer
Fire Chief

REASON

Product ID/Sceanrio
Possible Report

RESULT

Same
None

CONSUMER PRODUCT INCIDENT REPORT

F117008

1. NAME OF RESPONDENT JAMES DELK	2. TELEPHONE NO. 817-325-2349	(Home) _____ (Work) _____	Task #910122CWE7008 ANCHOR Ovenware Explosion
3. STREET ADDRESS 1602 SW 12th Ave.	4. CITY Mineral Wells, Texas	5. STATE	

6. DESCRIBE ACCIDENT SITUATION OR HAZARD, INCLUDING DATA ON INJURIES. (Use second page if necessary.)

Fire Chief Jerry Van Netta of Mineral Wells contacted CPSC to report an incident where a pyrex dish exploded in a gas oven. Details of damage are unknown at this time.

DATE OF INCIDENT(S) 1/91	7. IF INJURY OR NEAR MISS, OBTAIN AGE <u>NA</u> SEX <u>F</u> AND DESCRIBE INJURY <u>No Injury</u>	8. IF VICTIM DIFFERENT FROM RESPONDENT, PROVIDE NAME <u>Spouse of above consumer</u> RELATIONSHIP _____
------------------------------------	---	--

9. DESCRIPTION OF PRODUCT Gas Oven and Pyrex Dish	10. BRAND NAME unknown
11. MANUFACTURER/DISTRIBUTOR NAME, ADDRESS & PHONE Unknown	12. MODEL, SERIAL NO.'S Unknown
	13. DEALER'S NAME, ADDRESS & PHONE Unknown

14. IS THE PRODUCT DAMAGED, REPAIRED OR MODIFIED? NO <u>XX</u> IF YES, BEFORE OR AFTER THE DATE? <u>Unknown</u>	15. PRODUCT PURCHASED NEW _____ USED _____ DATE PURCHASED <u>Unknown</u> AGE _____
	16. DOES PRODUCT HAVE WARNING LABELS? IF SO, NOTE: _____

17. YOU CONTACTED THE MANUFACTURER? NO <u>XX</u> IF NOT, DO YOU PLAN TO CONTACT THEM? YES _____ NO _____	18. IS THE PRODUCT STILL AVAILABLE? YES <u>XX</u> NO _____ IF NOT, ITS DISPOSITION _____	19. MAY WE USE YOUR NAME WITH THIS REPORT? YES _____ NO _____ <u>Unknown</u>
--	---	--

FOR ADMINISTRATION USE

20. RECEIVED 8/91	21. RECEIVED BY (Name & Office) JOAN E. GREGG, PSI, FOWR/DAL	22. DOCUMENT NO. F117008
23. FOLLOW UP ACTION TASK #910122CWE7008		24. PRODUCT CODE(S) 0461 0262
25. ACTION O: FOWR cc: DSO for Assignment		26. ENDORSER'S NAME & TITLE [Signature] S.P.S.I.



INVESTIGATION GUIDELINE

REVISED: July 15, 1985

ELECTRIC RANGES AND OVENS

(Except Microwave)

If the incident is believed to involve ignition of cooking materials on an electric cooking surface, fill out the "Data Recording Sheet for Electric Range Food Fires" (Attachment B) and attach to Form 182 (Epidemiologic Investigation Report).

I. Introduction

A. Background Information

About 60,000 residential fires originating in electric ranges or ovens are attended by the fire service annually. In about 70 percent of these fires, some form of cooking material was reported to be the first material to ignite. In view of the advances in microcircuitry, automatic sensing devices, and other electronic technology, it is believed possible to make technical changes in these products which will reduce the number of such fires. However, we have very little information on the circumstances surrounding such fires. We need well-documented reports of the actual accident to determine which approaches are most suitable to reduce the number of such accidents.

Although the resultant ignition of cooking materials may appear obvious in a given incident, one must always be aware and consider the possibility that an underlying technical failure occurred. For example, a thermostat that malfunctioned allowing temperatures in excess of its intended setting, or an element failure which caused arcing and consequently ignition of nearby combustibles.

Since we are continuing to pursue identification of failures of component parts as well, we ask that all residential range/oven fires be investigated. If



INVESTIGATION GUIDELINE

an incident is found to involve ignition of cooking material, also fill out attachment B. to specify details that would otherwise be contained in your narrative. Because this attachment asks for a lot of very specific details on the cooking procedures at the time of the accident, we ask that these investigations be conducted as soon as possible after the accident has occurred since the quality of the available information will decline rapidly with time. As always, there may be other items that turn out to be revelant that we have not mentioned. In view of the technical nature of these products and their installation, please keep in mind the availability of technical support funds to assist you in evaluating these incidents.

This guideline has been reviewed by the range manufacturers and UL and incorporates many of their suggestions. They are very interested in pursuing the causes of these fires, have expressed their interest in learning what we find, and are planning concurrent testing of their own to investigate possible causes.

In order to obtain the earliest possible notification of such fires, we ask that the regional offices use their contacts with local fire departments in all locations where they have the ability to do on-site investigations. Electrical technical support funds may be used to improve electric range and oven investigation.

See additonal technical information (Attachment A)

B. Product Class Description

I. Definitions and General Description

- o Note product information and illustrations in Attachment A.
- o Product can be an electric range, oven, a combination of range/oven, or an installed cooking surface. GAS RANGE | OVEN
- o Unit can also be free-standing, built-in, slide-in, drop-in, or split level.

FREE-STANDING



INVESTIGATION GUIDELINE

2. Specific Items of Interest

- o For food fires, fill out Attachment B (questionnaire) in addition to the following main guideline. *Cookware Explosion*
- o Include diagrams of controls and settings if available.
- o Photograph failed elements, look for manufacturer identification.

C. Headquarters Contact

Linda Smith, EPHA -- 492-6470

Keith Austin, ESES -- 492-6508

Please note that this is a guideline, not a check list. Any relevant information discovered in the course of the investigation should be included regardless of whether it has been anticipated here.

II. Instructions for Collecting Specific Information

A. Free Text Summary

Describe the sequence of events that led to the accident. Describe the accident including component failure or multiple failures (if known), and subsequent events.

SEE TEXT

For data retrieval from the computer, please make sure the following key words are used in the synopsis as appropriate: food fires, surface element, bake element, thermostat, electric, terminal block, plug, or receptacle.

B. Description of Victim Contact With Product (Victim/Product Environment Interface)

- o Describe accident scenario including any injury or death sustained.

CAKE PAN EXPLODED - NO INJURY



INVESTIGATION GUIDELINE

59 year old female / 22-year old oven,

- o Specify victim's experience with, or knowledge of, product, e.g., advise whether instructions or operating manual had been read and understood, common usage. *years of experience*
- o Determine if and where aluminum foil was used to catch spills, e.g., in oven floor, under surface burners. *NONE*

C. Describe Product Characteristic

- Gas Oven Range*
 - o Describe dimensions, volts/watts/amps, UL or other certification, conformance with specific standards, other information on rating plate, etc. *OLKEEFE & MERRITT Gas Oven/Range*
 - NA* o List manufacturer's name, brand name, and model/serial numbers. *SN 366868-00 / 02008-380118007*
 - NA* o Specify wattage rating and dimensions of surface heating units (burners).
 - NA* o Specify method of surface heating unit connection to rest of product wiring. *GAS CONNECTION*
- TIMER & Clock*
 - o Describe any special and/or safety features, automatic timer, clock, rotisserie, self cleaning, automatic temperature sensor on surface heating units, infinite heat control on surface heating units, etc.
- SEPARATE Exhaust fan*
 - o Indicate whether the unit has an exhaust fan or hood, and if it is an integral part of unit or a separate item. Advise if fan or hood was screened and free of grease or other materials. Describe whether venting is appropriate.
- 22 YEARS OLD*
 - o Specify age of product, date of purchase, condition at time of purchase (new, used, reconditioned, etc.). *purchased new*
 - o Show date and method of installation and whether by professional, maintenance man, homeowner, etc. *NA*
- Thermostat set on low heat: 300°F*
 - o Indicate product history: previous problems, repairs, modifications or alterations, etc. If repaired, specify date, type, and who did the repairs (factory authorized repair service; maintenance or handy man, homeowner, other). Describe routine maintenance. *UNKNOWN MAINTENANCE - consumer states product in good working order*



INVESTIGATION GUIDELINE

- o Show arrangement of surface heating units and controls. Specify labeling on all controls. Photographs or diagrams are extremely important. See photos -

D. Description of Victim

- 5'5" 11
185 lbs
CORRECTIVE
LENSES
- o Indicate victim's age, sex, height, any competence reducing factors (e.g., impaired vision, physical handicaps, medication) experience, knowledge of product, perception of hazard, user attitude, and how victim was clothed, etc. 57 year old female
- o Specify activity and location of victim (and persons responsible for cooking) at the time of the accident, and general activities of the household that day which might affect use of the product. STANDING at SINK - washing dishes.

E. Description of Environment

- o Describe installed location of product (cleanliness or neatness of use area), specifying items on adjacent countertops. Neat.
- o Measure clearance between surface heating units and items above. Indicate if wood cabinets, etc. NA
- o Specify if the unit was wired directly into the circuit or a plug-in type, whether it was grounded, and grounding method. Describe who installed the product, what new connections were made, and specify any changes to house wiring. NA
- o List the wire size, wire material (copper or aluminum), voltage of branch circuit wiring. NA
- o List the size, type, and manufacturer of the overcurrent protection device (fuse or circuit breaker). NA

F. Other

- o Specify if the unit was repaired or replaced after the accident. Talk to the repairman to determine cause of failure. NA
- o Determine estimated property damage, if any, including fire spread and dollar loss. CAKE AND PAN loss only



INVESTIGATION GUIDELINE

- o Indicate if range (surface units or oven) was ever used for room heating. *NA*

III. Instructions for Photographing and/or Diagramming Accident Scene and Factors Related to the Accident Sequence

Photograph whole product and its environment. Also, photograph failed component parts, including any identification. *See Photos*

Try to photograph product with utensils and appliances in their positions at the time of the incident. *See Photos*

IV. Instructions for Obtaining Samples and Documents Related to the Investigation

Stipulate whether the fire department was summoned and obtain a copy of the report, if available. Obtain copies of any insurance or repair reports.

*Fire Dept telephoned.
No report prepared.*



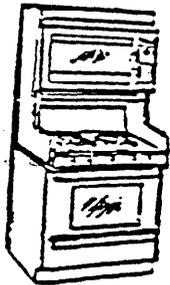
INVESTIGATION GUIDELINE



Built-In



Drop-In



Split-Level

GAS Oven/RANGE



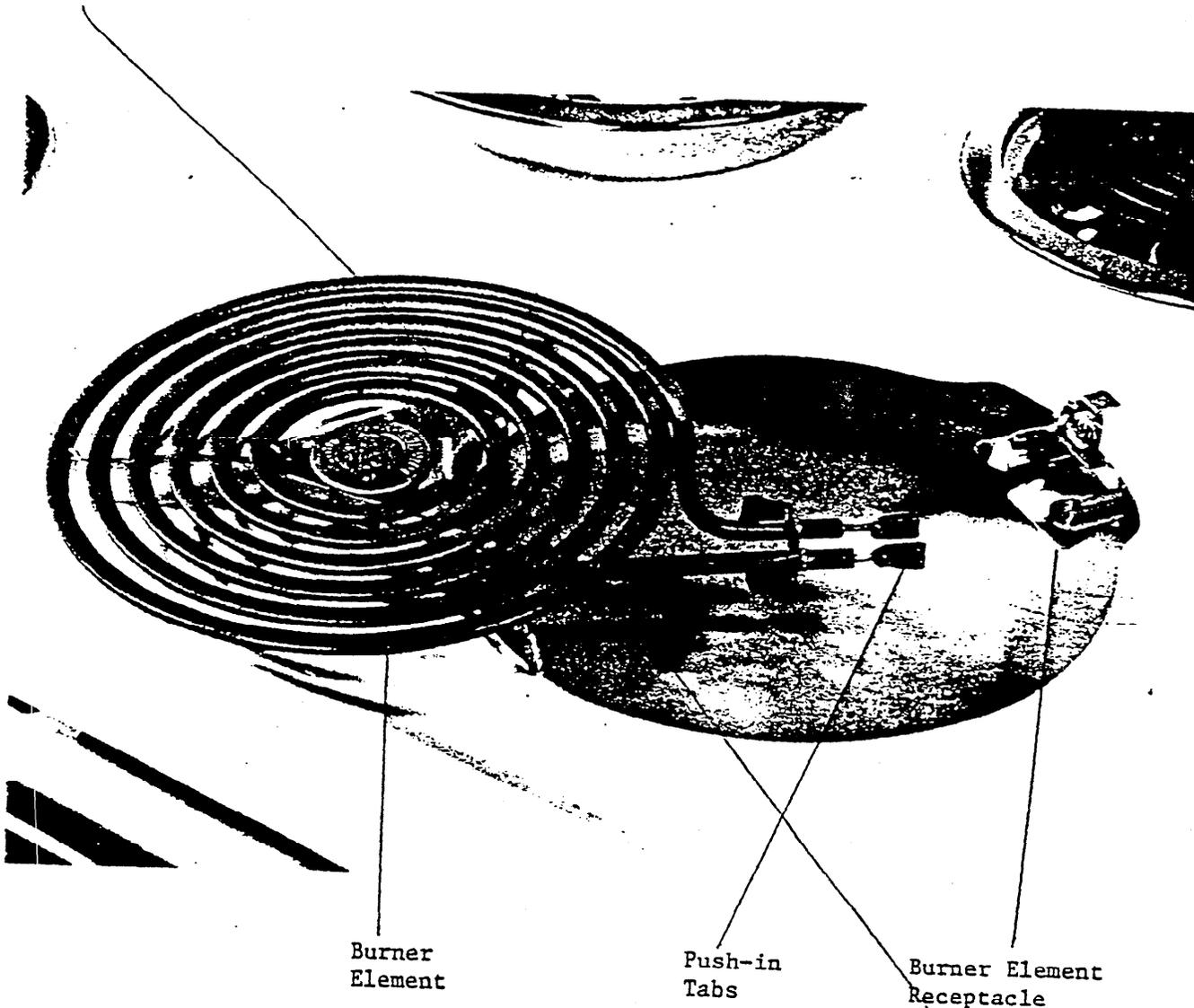
Free-Standing



Slide-In

SINGLE COIL PLUG-IN TYPE SURFACE UNITS

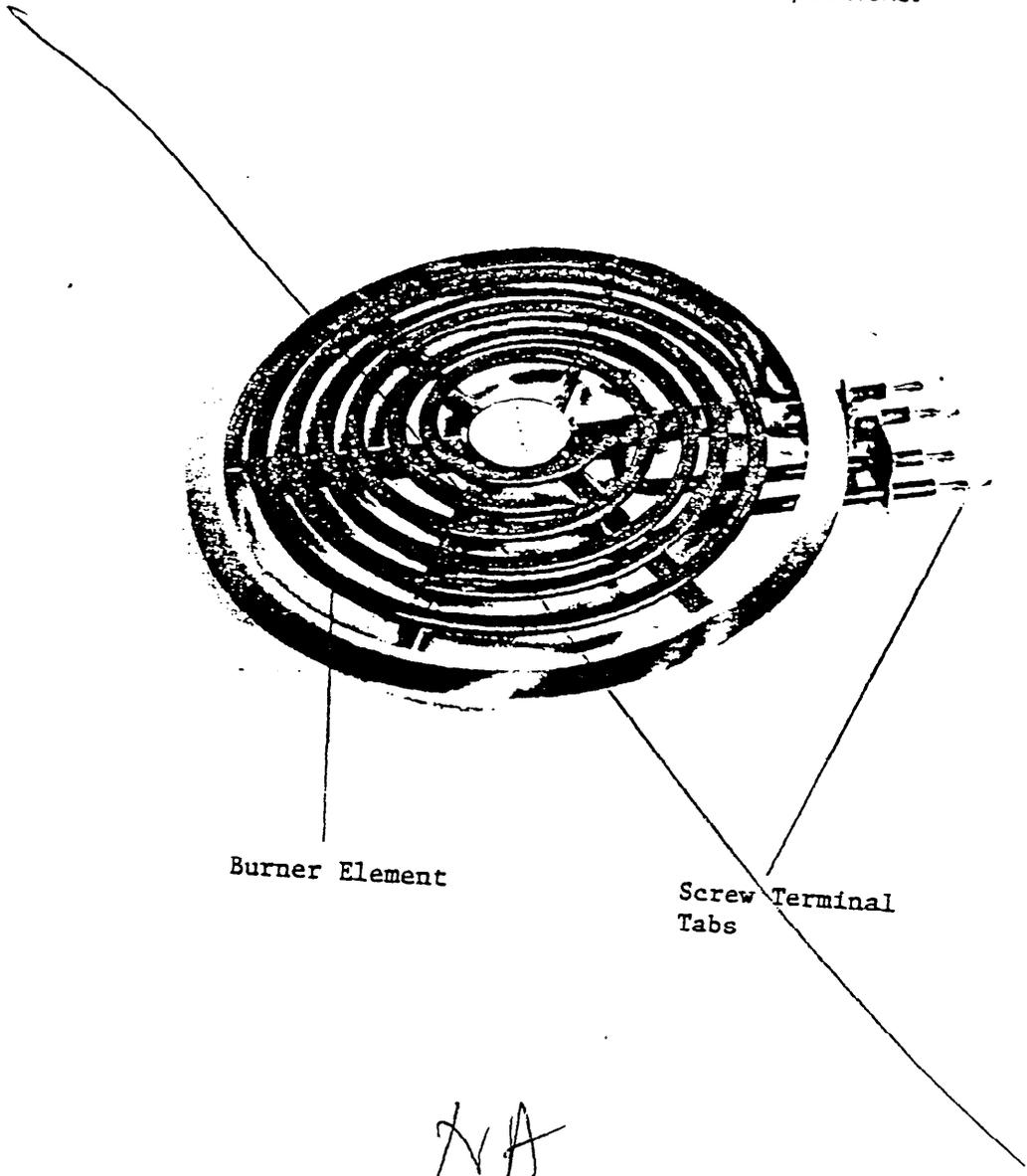
The surface heating unit consists of an inner coil of nichrome wire which is the heater part of the element. The nichrome wire is completely surrounded by an insulating material. An outer metal sheath provides protection for the insulating material, and also serves as the cooking surface. This type may be controlled by an infinite heat control, or by a thermostat. It works by turning on/off for varying periods of time to achieve the desired temperature. It is always 240 volts.



X/A

TWO COIL WIRED (SCREW) TYPE SURFACE UNITS

This type of surface heating unit is wired directly to the range rather than being connected to a plug-in receptacle. The range wiring is connected to the three terminals of the element with screws. This type is always controlled by a switch with discrete positions.



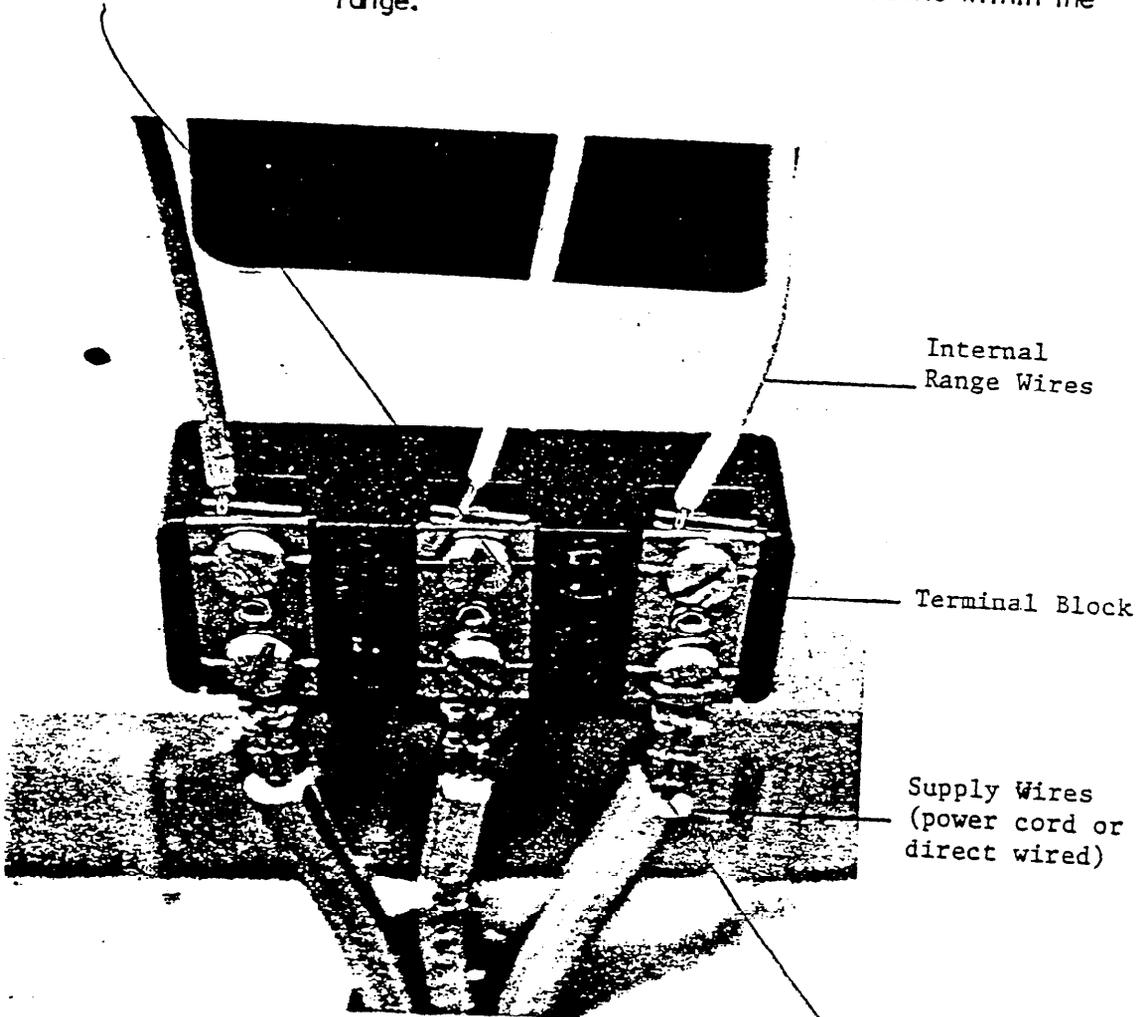
Burner Element

Screw Terminal
Tabs

NA

TERMINAL BLOCK

The power supply wiring is connected to the range at the power supply terminal block. Internal wiring from the terminal block supplies power to circuits within the range.





INVESTIGATION GUIDELINE

Attachment A

ADDITIONAL TECHNICAL INFORMATION

Heating Element Explosions

In your use of terminology, try to distinguish between arcing of electrically charged components and burning (or flaming) of materials such as wire insulation or other materials. A potential of 120 volts exist between the metal sheath and the heating element conductor, for both surface and oven heating elements. A failure of the magnesium oxide insulation at any point along the element can result in an arc at that point, between the sheath and the heating conductor, which may require the opening of a control switch to extinguish.

Neutral Grounding

If an electric shock has been received, you should consider, and try to determine, whether the range/oven may be providing the path to ground rather than being the failure point. Such situations would be an appropriate use of available technical support funds.

Any perceptible current from the frame of the range or oven indicates an open ground in this system. Because local codes sometimes prohibit use of neutral grounding, a link jumper or its equivalent is provided on these products so that the function of the grounding conductor and the neutral current carrying grounded conductor can be separated. If the link is opened and no separate grounding conductor is provided, the frame will be ungrounded.

Tempered Glass

Tempered glass is designed so that it will always break into small pieces if it breaks at all. Please try to distinguish between situation where the small pieces seem to have fallen near the oven, versus possible explosion where pieces have been expelled long distances.

CAKE PAN EXPLODED IN OVEN.
FORCED OVEN DOOR OPEN & SCATTERED GLASS
THROUGHOUT KITCHEN,



INVESTIGATION GUIDELINE

Wiring Failures

AA

Whenever it is believed that failure has occurred at any point in the electrical circuitry, connection, or termination of the product, always try to specify the exact location and function of the wiring involved. For example: a failure of insulation on the wiring to the right surface heating unit control, six inches from the connection to the heating unit.

Attachment B

Task #910122CWE7008
ANCHOR Ovenware
Explosion

DATA RECORDING SHEET FOR ELECTRIC RANGE COOKING MATERIAL FIRES

(To be attached to CPSC Form 182, Epidemiologic Investigation Report)

Task Number # 910122CWE7008 Date of Accident 1-17-91

A. PRODUCT

1. Manufacturer O'KEEFE + MERRITT Model UNKNOWN
2. Age 22 YEARS Serial Number 366868-00/02008-38048007
3. Type (Drop in, counter top, etc.) FREE STANDING OVEN / RANGE / GAS
4. Electrical Supply Hook-up
 Plug and Receptacle Terminal Block Wire Nuts
5. Electrical Supply Wires to Range
 Copper Aluminum

GAS

CONTROLS

6. Location Front Back Side
7. Type Pushbutton Rotary
8. Possible setting (List labeling of each surface heating unit.)
 - a. 300° F OVEN TEMPERATURE
 - b. _____
 - c. _____
 - d. _____
9. Is there an indicator light for the surface heating units?
 Yes No
- If yes, are there individual lights for each heating unit?
 Yes No
10. Do any surface heating units have an automatic temperature sensor? If yes, specify which one.
NO

Task #910122CWE7008
ANCHOR Ovenware
Explosion

SURFACE HEATING UNITS

- 11. Location of surface heating unit involved in the fire (e.g., right rear)
- 12. Diameter of involved unit _____
- 13. Number of rings/coils of unit (center to edge) _____
- 14. How unit was connected to range
 - _____ Screw terminations (specify number on involved unit)
 - _____ Push-in tabs _____ Specify number on involved unit
- If tabs, describe shape _____
- 15. Describe previous repairs: _____
- 16. Describe repairs after the fire _____

NA

Please note: According to consumer, thermostat stuck at 300°.

B. ACCIDENT

EXPLOSION

3 Qt Rectangular

- 17. Size of pan involved in fire (diameter in inches/quarts) 9.5 X 13.5 X 2 in
- 18. Comparison of pan diameter to heating unit diameter (pan smaller, larger, same)
CAKE PAN WAS PLACED IN OVEN.
- 19. Pan type and material (e.g., aluminum saucepan) GLASS
- 20. What food was being cooked? CAKE MIX
- 21. How full was the pan initially? HALF FULL PER INSTRUCTIONS
- 22. Describe cooking process (sauteing, boiling): BAKE
- 23. What temperature settings were used? (Start at beginning of cooking time.)
300° F
- 24. Type and amount of cooking oil NONE

AT TIME OF ACCIDENT

25. Was the pan covered? NO
26. What was believed to catch fire first? NO FIRE - PAN EXPLODED
27. List all items that burned, or general extent of flame damage.
CAKE & PAN SPLATTERED OVER AND KITCHEN.
28. What was burning when fire was discovered? NONE
29. How long was food cooking prior to fire? 15-20 MINUTES
30. Who was doing the cooking? 52 year old female
31. Who discovered the fire? NO FIRE
32. Was anyone in the kitchen when ignition occurred? 52-year old female
Who? FEMALE STANDING AT SINK WHEN PAN EXPLODED.
If not, where were the nearest family members? NA
33. Time of day 5:00 P.M.
34. Was there an exhaust fan in operation? _____
35. Indicate what else was being cooked, and on which burners. NONE

OTHER

- NA 36. Was the reflector pan located under the surface heating unit at the time of the fire?
____ Yes ____ No
- NA 37. Was the reflector pan covered with anything (to keep it clean)?
____ Yes ____ No
What? _____
- NA 38. In the past, have you ever turned the wrong heating unit on or off? _____
39. Is there an operable smoke detector in the area? NO
40. Did it go off? NA
41. Describe (or diagram) location of range in the room. What items are near it - - cabinets, window curtain, etc. SEE PHOTOS

General Description: Provide general description, including all other relevant factors and information on the investigation form.



U.S. CONSUMER PRODUCT SAFETY COMMISSION
DALLAS SATELLITE OFFICE

FEB 11 1991

1100 COMMERCE ST., RM. 1C10, DALLAS, TX 75242 - (214) 767-084

Task #910122CWE7008
ANCHOR Ovenware
Explosion

- ALASKA
- ARIZONA
- ARKANSAS
- CALIFORNIA
- COLORADO
- HAWAII
- IDAHO
- LOUISIANA
- MONTANA
- NEW MEXICO
- NEVADA
- OKLAHOMA
- OREGON
- TEXAS
- UTAH
- WASHINGTON
- WYOMING
- PACIFIC ISLANDS

U.S. CONSUMER PRODUCT SAFETY COMMISSION

AUTHORIZATION FOR RELEASE OF NAME

Thank you for assisting us in collecting information on a potential product safety problem. The Consumer Product Safety Commission depends on concerned people to share product safety information with us. We maintain a record of this information and use it to assist us in identifying and resolving product safety problems.

We routinely forward this information to manufacturers and private labelers to inform them of the involvement of their product in an accident situation. We also give the information to others requesting information about specific products. Manufacturers need the individual's name so that they can obtain additional information on the product or accident situation.

Would you please indicate on the bottom of this page whether you will allow us to disclose your name. If you ask that your name remain confidential, we will of course, honor that request. After you have indicated your preference, please sign your name and date the document on the lines provided.

You are hereby authorized to disclose my name and address with the information collected on this case

My identity is to remain confidential

Dorothy Bell
Signature

1/25/91
Date

UNITED STATES GOVERNMENT
Memorandum

APR 2 1991

U.S. CONSUMER PRODUCT
SAFETY COMMISSION
WASHINGTON, D.C. 20207

TO : EPDS
THRU : Claude E. Tolbert
Supervisor, DAL/FOWR
FROM : Joan E. Gregg
Investigator, DAL/FOWR
SUBJECT: ADDENDUM-TASK #910122CWE7008

DATE: March 27, 1991

JEG
~~91~~ 0262/0461

See attached replacement AUTHORIZATION FOR RELEASE OF NAME
as requested.

1
O: EPDS (Joan Bartley)
cc: DSO TO 910122CWE7008



U.S. CONSUMER PRODUCT SAFETY COMMISSION
DALLAS SATELLITE OFFICE

APR 2 1991

1100 COMMERCE ST., RM. 1C10, DALLAS, TX 75242 - (214) 767-0841

Task #910122CWE7008
ANCHOR Ovenware
Explosion

- ALASKA
- ARIZONA
- ARKANSAS
- CALIFORNIA
- COLORADO
- HAWAII
- IDAHO
- LOUISIANA
- MONTANA
- NEW MEXICO
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Would you please indicate on the bottom of this page whether you will allow us to disclose your name. If you ask that your name remain confidential, we will of course, honor that request. After you have indicated your preference, please sign your name and date the document on the lines provided.

..... You are hereby authorized to disclose my name and
[XX.] address with the information collected on this case

.....
[...] My identity is to remain confidential

James W. Dahl
Signature

.....
REGIONAL
OFFICE
DALLAS

3-23-91
.....
Date

MAR 26 AIO: 37

RECEIVED

Task #910122CWE7008
ANCHOR Ovenware
Explosion



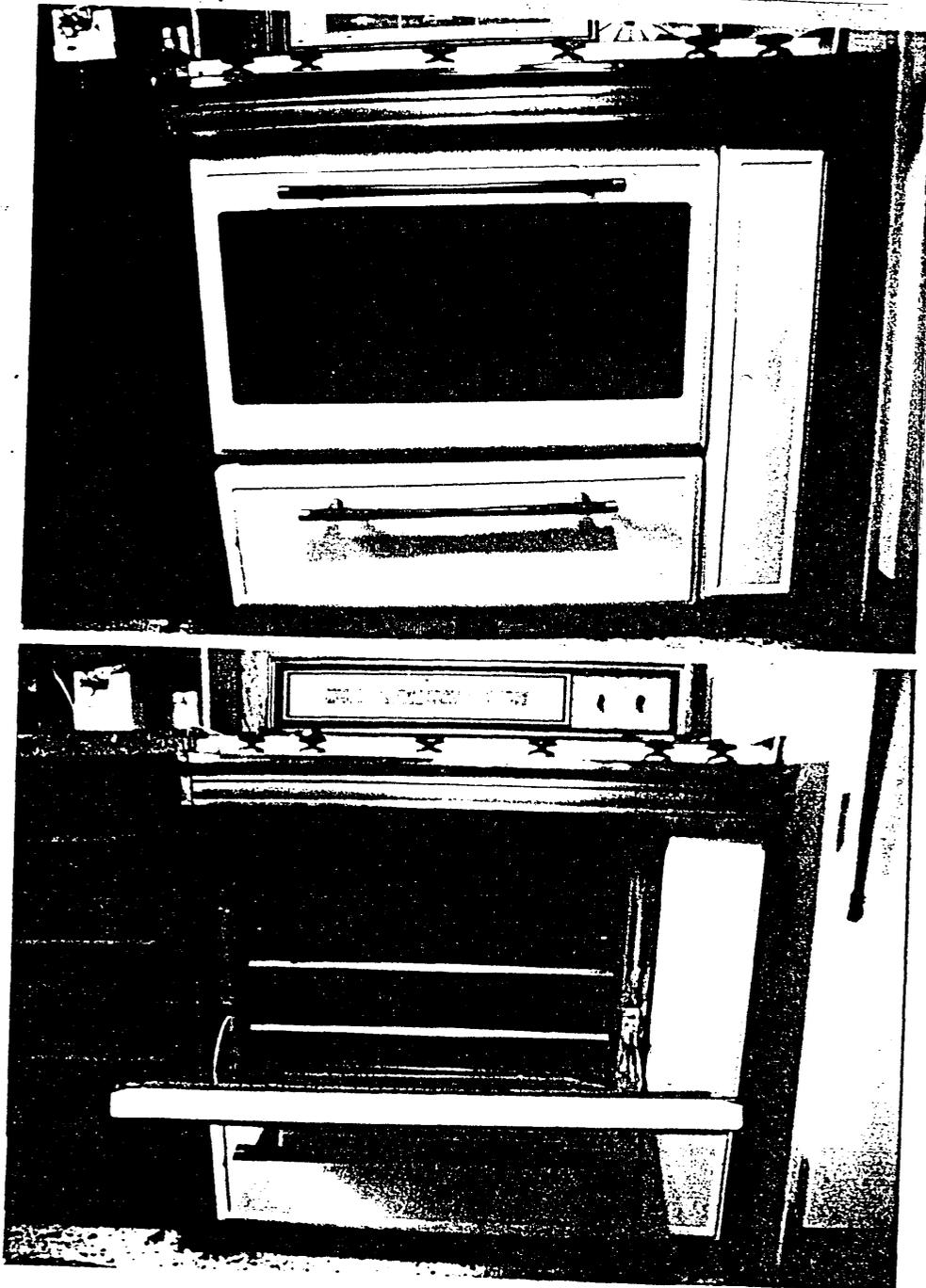
The above photo reveals the general location of the ovenware explosion. The 57-year old female was standing at a sink to the left at the time of the incident. No injury occurred.

Task #910122CWE7008
ANCHOR Ovenware
Explosion



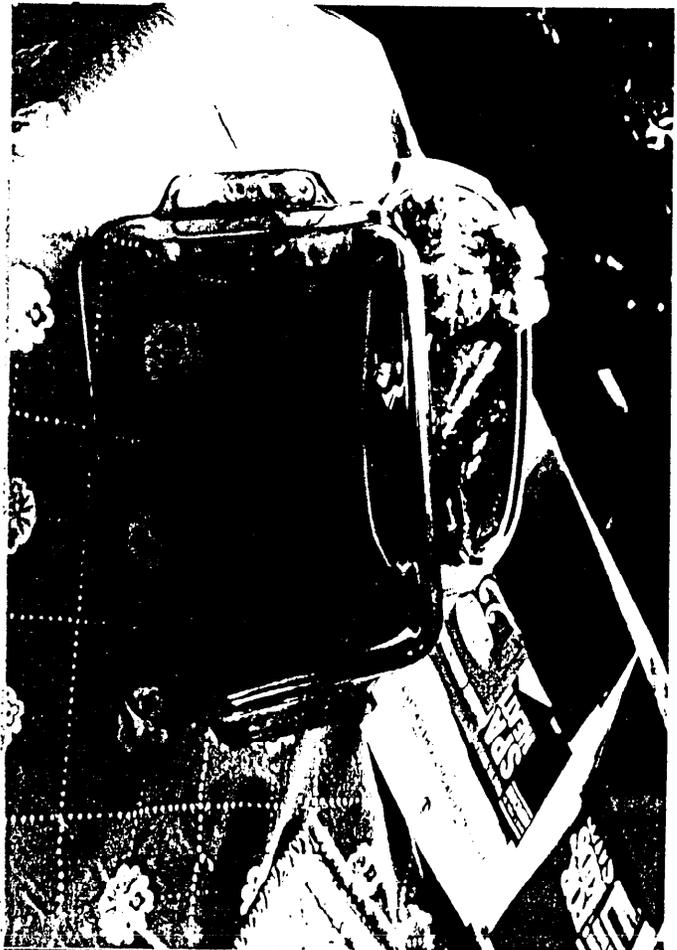
These photos describe the 22-year old
gas oven/range. "O'KEEFE & MERRITT"
brand. The consumers believe the oven to
be in good working order.

Task #910122CWE7008
ANCHOR Ovenware
Explosion



As mentioned, the cake pan was described as "exploding". According to the consumer, the oven door was forced open and jagged glass was scattered throughout the kitchen. Neither the oven door nor oven appeared to be damaged during examination.

Task #910122CWE7008
ANCHOR Ovenware
Explosion



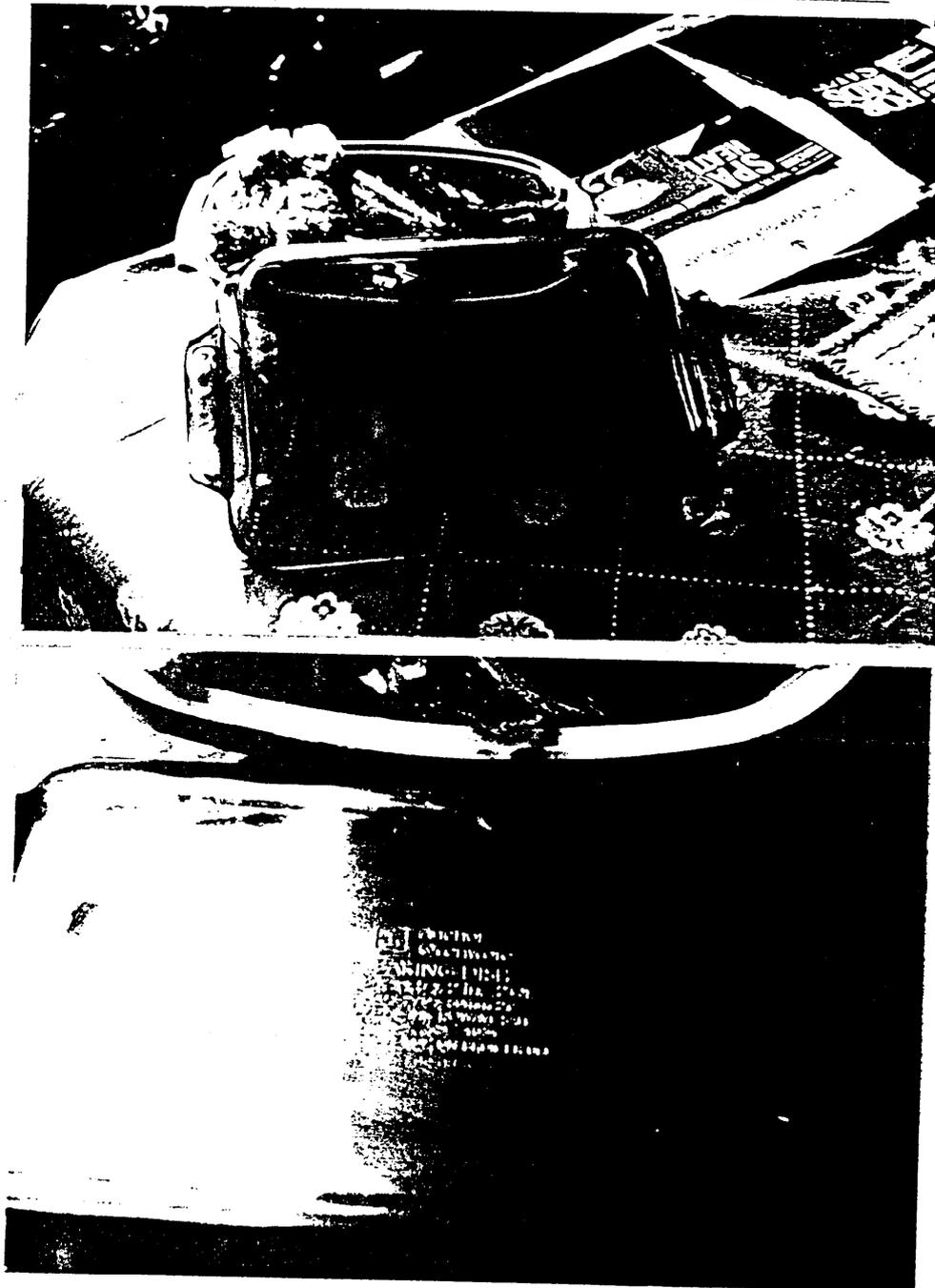
Labeling on the smaller pan is as follows:
Anchor Ovenware BAKING DISH
8 X 11.5 X 2 in 2 Qt
200 X 290 X 50 mm
Oven and Microwave Safe USA 13 1031
No Stovetop or Broiler Use

Task #910122CWE7008
ANCHOR Ovenware
Explosion



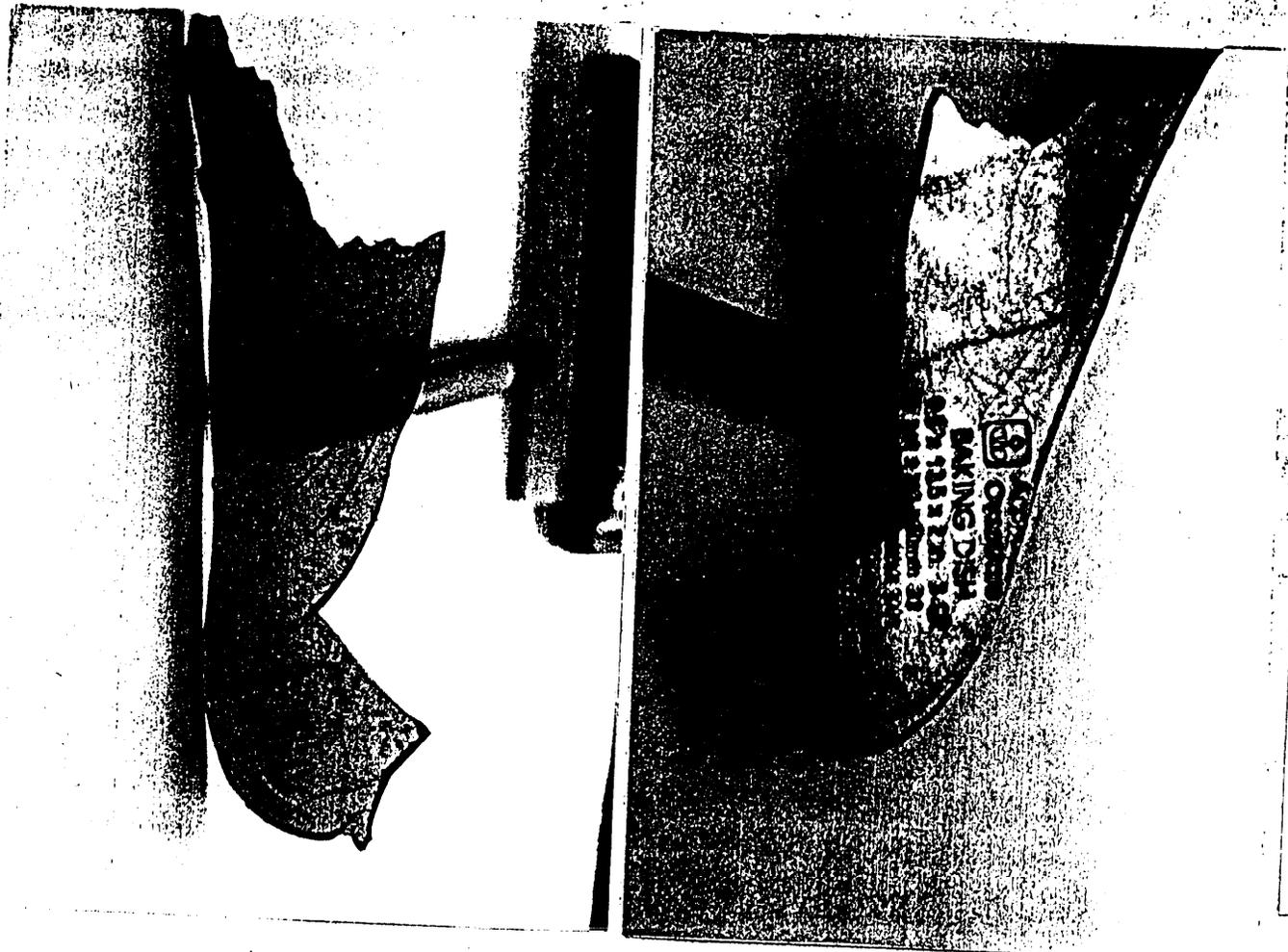
These photos reveal the remnants of cake
and jagged glass as result of the incident.
The pan shown above is the smaller pan of
the two piece set involved in the incident.

Task #910122CWE7008
ANCHOR Ovenware
Explosion



Labeling on the smaller pan is as follows:
Anchor Ovenware BAKING DISH
8 X 11.5 X 2 in 2 Qt
200 X 290 X 50 mm
Oven and Microwave Safe USA 13 1031
No Stovetop or Broiler Use

Task #910122CWE7008
ANCHOR Overware
Explosion



Similar labeling appears on the fragment
of the shattered pan. Labeling is part is
as follows: "Anchor Overware BAKING
DISH 9.5 X 13.5 X 2 in 3 Qt 1040".