

IN THE MATTER OF
FIGGIE INTERNATIONAL, INC.

FINAL ORDER IN REGARD TO ALLEGED VIOLATION OF SEC. 5 OF THE
FEDERAL TRADE COMMISSION ACT

Docket 9166. Complaint, May 17, 1983—Final Order, April, 11, 1986

This final order requires, among other things, a Richmond, Va. manufacturer and seller of home heat detectors to provide notification that smoke detectors give earlier warning than heat detectors in nearly all residential fires to past purchasers of its heat detectors. Respondent must also disclose that fact in any future promotional materials that make claims about the residential fire protection provided by heat detectors. Additionally, respondent is prohibited from misrepresenting: (1) the performance characteristics of any heat or smoke detector, or any system containing both; or (2) any standard or recommendation established by the National Fire Protection Association or any other group concerning fire warning systems.

Appearances

For the Commission: *Christopher Schwartz and David M. Malone.*

For the respondent: *Edwin S. Rockefeller and Leslie Donovan, Schiff, Hardin & Waite, Washington, D.C.*

COMPLAINT

Pursuant to the provisions of the Federal Trade Commission Act, and by virtue of the authority vested in it by said Act, the Federal Trade Commission, having reason to believe that Figgie International, Inc., a corporation ("respondent") has violated the provisions of said Act, and it appearing to the Commission that a proceeding by it in respect thereof would be in the public interest, hereby issues its complaint stating its charges as follows:

PARAGRAPH 1. Respondent, Figgie International, Inc., is an Ohio corporation with its principal place of business at 1000 Virginia Center Parkway, Richmond, Virginia.

PAR. 2. Respondent maintains a substantial course of business, including the acts and practices set forth hereinafter, in or affecting commerce, as "commerce" is defined in the Federal Trade Commission Act.

PAR. 3. Respondent manufactures, advertises, offers for sale, sells and distributes residential fire alarm products including heat detectors and smoke detectors. Respondent's fire alarm products are some-

times identified by the trade name "Vanguard" and are sold to the public by respondent's distributors through in-home sales presentations. Respondent offers these products as fit for the purpose of affording fire warning protection to residential occupants.

PAR. 4. In order to sell its fire alarm products respondent has made numerous representations in various promotional and training materials it prepared and disseminated. Illustrative of respondent's representations are the following:

- (1) Heat detectors "will give immediate early warning."
- (2) Heat detectors provide "fast response to hot fires." [2]
- (3) Smoke detectors provide only "partial protection."
- (4) "Mechanical heat detectors are essential to provide the reliability that smoke detectors lack and to guard against the many types of fires where smoke detectors may be ineffective."
- (5) "The 'VANGUARD' Thermosonic 50-Ft. Heat Detector and the 'VANGUARD' Smokesonic Smoke Detector will provide the combination needed to give a greater measure of life safety."

PAR. 5. Through the use of these representations, and others of similar meaning, and by offering its fire alarm products as fit for the purpose of affording fire warning protection to residential occupants, respondent represents, directly or by implication, that:

- (1) In the event of fire, respondent's heat detectors provide sufficient warning to occupants to allow them to escape safely.
- (2) Respondent's fire alarm systems combining heat detectors and smoke detectors provide significantly greater fire warning protection for occupants than smoke detectors alone.

PAR. 6. In truth and in fact:

- (1) In nearly all residential fires, life endangering conditions will occur prior to the activation of respondent's heat detectors. Such heat detectors, therefore, do not provide sufficient warning to occupants in the event of fire.
- (2) Respondent's fire alarm systems combining heat detectors and smoke detectors do not provide significantly greater fire warning protection for occupants than smoke detectors alone.

Therefore, the statements and representations set forth in Paragraphs Four and Five were and are deceptive and unfair.

PAR. 7. Respondent's use of the aforesaid deceptive and unfair statements and representations has had and now has the capacity and tendency to deceive consumers and to induce purchases of substantial quantities of respondent's products. [3]

PAR. 8. The acts and practices of respondent, as herein alleged, were and are all to the prejudice and injury of the public and constituted,

and now constitute, unfair and deceptive acts or practices in or affecting commerce in violation of Section 5 of the Federal Trade Commission Act.

INITIAL DECISION BY

MONTGOMERY K. HYUN, ADMINISTRATIVE LAW JUDGE

OCTOBER 23, 1984

PRELIMINARY STATEMENT

On May 17, 1983, the Federal Trade Commission ("Commission") issued an administrative complaint charging Figgie International, Inc. ("Figgie") with a violation of Section 5 of the Federal Trade Commission Act, as amended (15 U.S.C. 45), in connection with certain product claims allegedly made by Figgie in the distribution and sale of heat detectors. On July 1, 1983, Figgie filed an answer denying that it violated the Federal Trade Commission Act as charged. On November 8, 1983, Paragraphs 5 and 6 of the complaint were amended so as to change several words. The amended complaint alleged generally that promotional materials supplied to and used by Figgie distributors during in-home sales presentations contain express and implied effectiveness claims for Vanguard heat detectors which are deceptive and unfair. More specifically, the amended complaint challenges the lawfulness of alleged product claims (1) that in the event of most fires Vanguard heat detectors provide the necessary warning to allow a safe escape in residential fires and (2) that Vanguard fire alarm system combining heat detectors and [2] smoke detectors provide significantly greater fire warning protection than smoke detectors alone.

Evidentiary hearings for the presentation of complaint counsel's case-in-chief began on April 30, 1984 and ended on May 9, 1984. Defense hearings began on June 13, 1984 and ended on June 20, 1984. Sixteen witnesses gave testimony. The transcript of hearings, including prehearing conferences, consists of some 1,700 pages and about 86 exhibits, including a number of slides and tapes, were received in evidence. The evidentiary record was closed on July 6, 1984.¹

The proposed findings and conclusions submitted by the parties and their arguments in support thereof have been given careful consideration by me and to the extent not adopted by this Initial Decision, in the form proposed or in substance, are rejected as not supported by

¹ By order of September 18, 1984, the Commission extended the due date of this initial decision to October 23, 1984.

the evidence or as immaterial. Any motion appearing on the record not heretofore or hereby specifically ruled upon either directly or by the necessary effect of the conclusions in this Initial Decision are hereby denied.

Upon consideration of the entire record in this proceeding and having considered the demeanor of the witnesses, I make the following findings of fact and conclusions of law and order based on the record considered as a whole:² [3]

FINDINGS OF FACT

I. JURISDICTION

1. Respondent Figgie International, Inc. ("Figgie") is a corporation organized and doing business under the laws of Ohio, located at 1000 Virginia Center Parkway, Richmond, Virginia (Ans. of Figgie, ¶ 1).

2. Figgie is now and has been engaged in the distribution, promotion, offering for sale and sale of heat and smoke detectors under the trade name "Vanguard" (CX 135, Respondent's Response to Complaint Counsel's Request for Admission No. 2).

3. Figgie, through its Interstate Engineering Division (hereinafter sometimes referred to as "Figgie-Interstate"), ships goods, including but not limited to Vanguard heat detectors and smoke detector, through interstate commerce (CX 135, Admission No. 6).

4. The Interstate Engineering Division of Figgie had total sales of about \$29,939,000 for the period January 1, 1981 through May 31, 1983 (CX 135, Admission No. 5).

5. Figgie-Interstate had total sales of about \$23,212,000 for the period January 1, 1979 through December 31, 1980 (CX 125).

6. In the course and conduct of its business, Figgie-Interstate has produced and disseminated promotional material through the United States mails pertaining to Vanguard smoke and heat detectors for the purpose of promoting the sale of Vanguard fire alarms (CX 135, Admission No. 8).

7. In the course and conduct of its business, and at all times relevant to the Complaint, Figgie-Interstate has maintained a substantial

² For the purposes of this initial decision, the following abbreviations were used:

- F. - Finding of Fact in this decision
- CPF - Complaint Counsel's Proposed Findings
- RPF - Respondent's Proposed Findings
- CR - Complaint Counsel's Reply
- RR - Respondent's Reply
- Tr. - Transcript of hearings, sometimes preceded by the name of the witness
- CX - Complaint Counsel's exhibit
- RX - Respondent's exhibit
- Comp. - Complaint
- Ans. - Answer

course of trade in these products, in or affecting commerce, as "commerce" is defined in the Federal Trade Commission Act (CX 135, Admission No. 10).

II. BUSINESS OF RESPONDENT

A. *Company History*

8. Figgie was known as A-T-O, Inc., until the name was changed in 1981 (Schoettler 1259). The name change did not signify any change in Figgie-Interstate's method of doing business (Schoettler 1259; McGee 602; Sterner 1575). [4]

9. Figgie is a diversified international operating company with 30 major divisions marketing industrial, consumer and technical products. Some of Figgie's better known products include American La-France fire apparatus and Rawlings sports equipment (CX 62B). Figgie claims to be the "World's Largest Integrated Manufacturer of Fire Protection and Security Equipment." Annual sales are in excess of \$700 million (CX 62B).

10. Interstate Engineering was at one time an independent corporation headquartered in California. In 1959, Interstate introduced the first Vanguard heat detector. In November 1967, Interstate merged into A-T-O and it is now an operating division of Figgie (CX 64L).

B. *Fire Alarm Products Offered For Sale*

11. Figgie-Interstate is now and has been, at all times relevant to the complaint, engaged in the manufacture of fixed-temperature heat detectors which are sold for the purpose of providing fire warning protection to residential occupants (CX 135, Admission Nos. 1 and 12).

12. Figgie-Interstate, at all times relevant to the complaint, has purchased the smoke detectors it sells from outside manufacturers (Sterner 1620).

13. Since 1971, Figgie-Interstate has offered for sale and sold Vanguard heat detectors containing either a 136° or a 175° fuse (Sterner 1614). An improved, 117° fuse was first offered for sale in April 1982 (CX 94A; Sterner 1614). In August 1983, the 117° fuse became the standard fuse used in a Vanguard heat detector (Sterner 1615).

14. Figgie-Interstate also offers for sale and sells both A.C.-D.C. photoelectric smoke detectors and battery operated ionization smoke detectors (CX's 93, 71Z-11). The photoelectric smoke detector currently sold by Figgie-Interstate is designed to activate once smoke density reaches approximately 1.5% (CX 64W).

C. Marketing Of Heat And Smoke Detectors

15. Figgie-Interstate offers for sale and sells Vanguard heat and smoke detectors to distributors located nationwide (CX 135, Admission No. 7; McGee 604) who in turn sell the products through in-home sales presentations to consumers (McGee 609; Hammack 231). Figgie-Interstate has a contractual relationship with these distributors (McGee 645).

16. Between January 1, 1981 and May 31, 1983, Figgie-Interstate has generated about \$2,354,000 in heat detector [5] sales. For the same time period, Figgie-Interstate has generated about \$620,000 in smoke detector sales (CX 127).

17. The standard package of heat and smoke detectors sent by Figgie-Interstate to distributors contains either five heat detectors and one smoke detector or six heat detectors alone (Schoettler 1269).

18. Sales figures from January 1, 1979 to May 31, 1983 indicate that Figgie-Interstate sells between four and five heat detectors for every smoke detector sold (CX's 127A, 125). Interstate currently sells both the 136° and 117° heat detector to distributors for \$32.75. Interstate charges distributors \$46.00 per unit for the smoke detectors (CX 127B). The testimony of Vanguard fire alarm purchasers called as respondent's witnesses indicate that they paid about \$100 per detector (Gwinn 1483; Hodja 1514) and have bought about five heat detectors for every one smoke detector (Hartley 1477; Shaw 1556; Hodja 1506; Gwinn 1477; Losito 1464).

19. Figgie-Interstate, in the regular course of its business, receives and maintains owner registration cards from distributors indicating the name and address of the purchaser, the number of Vanguard alarms installed, the purchase date and the name of the distributor responsible for the sale (CX 79; Hammack 2591).

20. Figgie-Interstate prepares, produces, and supplies promotional materials for use by its distributors during in-home sales presentations (CX 136, Amended Answer to Requested Admission No. 9; McGee 626-27, 632, 644; Hammack 212, 214, 218, 247, 250, 252). These materials contain detailed elements of the sales presentations to be made to consumers (Hammack 215; McGee 626).

21. Figgie-International, in the course and conduct of its business, and at all times relevant to the complaint, has exercised substantial control over the promotional practices of its distributors regarding the sale of Vanguard heat and smoke detectors, including the content of the sales presentation.

22. Until 1981, Interstate had relied upon a hierarchy of distributors referred to as divisional, regional and factory-direct. Divisional distributors had the largest sales territories and oversaw the activi-

ties of regional distributors. In turn, regional distributors were responsible for the factory-direct distributors operating within their respective regions. Figgie-Interstate paid a commission to divisional and regional distributors based on the purchase volume of those distributors for whom they were responsible (McGee 604-05, 608). Factory-direct distributors frequently establish subdistributors whom they supply (Hammack 206). [6]

23. During 1981, Interstate made all existing distributors factory-direct distributors. This change was prompted by Interstate's decision that divisional and regional distributors were not "giving them enough help" (McGee 608).

24. All factory-direct distributors, appointed by Figgie-Interstate, are assigned a primary area of responsibility as stipulated in a written agreement with Figgie-Interstate (Schoettler 1268; McGee 603). Figgie-Interstate also establishes sales quotas for those areas of primary responsibility (Schoettler 1268; CX's 85, 135, Admission No. 16).

25. Figgie-Interstate maintains a substantial role in the training of its distributors. It is recommended to all distributors that they rely upon the two-volume training manuals (CX's 64-65) for detailed information relating to hiring and training of their salesmen, and for sales presentations including scripts for opening and closing the sales presentation, lead generation and product information (Schoettler 1259; Sterner 1655). To date, Figgie-Interstate has sold about 5,000 copies of CX's 64 and 65 to its distributors (Interrogatory No. 34).

26. Figgie-Interstate holds regular sales meetings for Vanguard distributors where they are instructed by Figgie-Interstate personnel about sales presentations, lead generation and recruiting of sales people (CX's 87, 91-92, 96-97, 9P, 99-100).

27. Figgie-Interstate personnel regularly travel to various regions of the country to instruct distributors on how to stimulate sales and to show them how to do a proper sales presentation (Sterner 1656; CX 135, Admission No. 42; McGee 611). Distributors are further monitored by regular telephone calls from Interstate's Vice President for Marketing and its National Sales Director (Sterner 1660; CX 135, Admission No. 71).

28. Prior to November 1979, Interstate hired consultants, often known as National Trainers, to visit various distributorships and instruct them on such matters as day-to-day operation of the business, marketing of products and product information (CX 135, Admission No. 63; McGee 610).

29. On occasion, Figgie-Interstate instructs its distributors to memorize scripts prepared by Interstate for use in sales presentations (CX's 64Z-13, 88; Sterner 1655).

30. On occasion, distributors and Interstate personnel work to-

gether to develop new promotional material including the script for the slide presentation released by Figgie-Interstate in January 1983 (CX 135, Admission No. 59).

31. In order to stimulate sales, Figgie-Interstate sponsors sales contests among distributors and establishes award programs (CX 135, Admission Nos. 44 and 74). Figgie-Interstate has [7] provided funds to pay some of distributors' costs for advertisements recruiting salespersons (CX 89, 135, Admission No. 77).

32. In the course and conduct of its business, and at all times relevant to the complaint, Figgie-Interstate has produced and disseminated promotional materials which constitute a major portion of the sales presentation made by Vanguard distributors to consumers (Hammack 215; McGee 626).

33. Most of the promotional materials prepared, produced and distributed by Figgie-Interstate contain performance claims relating to Vanguard heat detectors (CX 136, Amended Response to Requested Admission No. 11; CX's 61C, G, 63, 66, 67M-N, P, S, 68B, 69C-D, 70B, E, G, 71Z-10, Z-12).

34. A method nationally employed by Vanguard distributors and recommended by Figgie-Interstate for purposes of generating sales leads included the offer of a free fire extinguisher to consumers who had filled out a registration card giving his or her name and address. The cards were deposited into drop boxes located in retail outlets and at trade fairs and were subsequently used by local Vanguard distributors to schedule sales presentations (CX 64Z-20; Hammack 228; Hodja 1504).

III. FIGGIE-INTERSTATE'S SALES PRESENTATION AND PROMOTION OF VANGUARD FIRE ALARM DEVICES

35. The sales presentation consists largely of promotional materials supplied to distributors by Figgie-Interstate. These in-home presentation materials include slide shows, testimonial letters, brochures and booklets, demonstration materials, government fire study excerpts and other materials, all intended to drive home the real danger of home fires and to induce the consumer to purchase Vanguard heat detectors, often in a system including a token number of smoke detectors. Figgie-Interstate recommends that heat detectors be installed in every room, including living rooms, bedrooms, kitchens, dens, basements, attics and garages; and perhaps a smoke detector outside the sleeping areas (CX 66M, 135, Admission No. 27; Sterner 1620).

A. *The Slide Presentation*

36. An important element of the sales presentation is a slide presentation with a synchronized audio tape, entitled "Home Safety Pro-

gram," which is prepared and disseminated by Figgie-Interstate. There have been two editions of the slide show. The first, CX 131 (CX 129, audio tape for old slide show; CX 130, transcript of CX 129), was in use from 1980 until early 1983. The second, CX 133 (CX 132, audio tape for new slide show; a [8] transcript of CX 132 appears on Tr. 1586-1604), has been in use since January 1983 (CX 135, Admission No. 59; Hammack 234; McGee 640, 644). Interstate's Vice President of Marketing, Irv Sterner, is of the opinion that the new slide presentation produced by Figgie-Interstate is the most effective piece of promotional material provided to Vanguard distributors for use during in-home sales presentations (CX 135, Admission No. 50).

37. According to Sterner, the new slide presentation (CX 133) is "totally different" from the old slide show (CX 131). Dr. Cohen, complaint counsel's expert witness, viewed both versions and characterized them as very similar in content and impact (Cohen 305-08). The evidence shows that the number of slides were reduced from 100 in the old version to 90 in the new, 64 of the old 100 slides were removed together with corresponding audio and, of the remaining 36 slides the accompanying audio was changed in many of them (Sterner 1573-74). The administrative law judge had occasion to view both versions and came away with a distinct impression that both versions conveyed a similar message regarding the real danger of night-time fires in homes and the effectiveness of Vanguard heat detectors as early warning devices, which have saved many lives.

38. The slide shows vividly depict residential fires, homes engulfed in raging flames and choking smoke and show alarming fire statistics regarding the real danger of night-time residential fires. In one fearful fire scene after another, the viewer is shown what a reliable fire warning device like Vanguard heat detector can do to save lives and property in residential fire situations.

39. The audio portion of the new slide show (CX 133) contains the following express representations:

a. The information you are about to hear may mean the difference between life and death for your family. So listen more carefully than you have ever listened before (Tr. 1587).

b. The purpose of our visit is to tell you how fires start, how they spread and, most important, how to survive (Tr. 1588).

c. Authorities say there are two things necessary to save you and your family in case of fire. "The first is adequate warning" (Tr. 1590).

d. When your fire occurs, it could be at night, the real danger time for your family. The vast majority of fire fatalities occur between the hours of 11:00 p.m. and 6:00 a.m. when most people are sleeping. Not more fires, more fire deaths (Tr. 1594). [9]

e. The most feared [toxic by-product of fire is] carbon monoxide. The gas is produced in abundance in every fire. It is odorless, colorless, and tasteless. A very short exposure

to this gas will not only induce sleep, but render you unconscious and, finally, death (sic; Tr. 1596).

f. However, regardless of the physical cause of fire fatalities, the real killer is time. If every family were warned of the fire in time, nighttime fire deaths and injuries could be virtually eliminated (Tr. 1598).

g. Under normal conditions with the bedroom door open a family had just 1.8 minutes from the time a fire started until it was too late. Even closing the bedroom door only gave them 5.6 minutes (Tr. 1598).

h. Imagine if an early warning system existed for your car that could warn you minutes before a fatal crash. We would all want one. A system like that of course does not exist. Yet, an early warning system does exist that will warn you minutes before a fatal fire condition exists in your home (Tr. 1599).

40. The audio portion of the old slide show (CX 130) contains the following express representations:

a. A few months ago we had a serious fire in our home that resulted in a financial loss and a much greater loss, the life of our nine year old son. We had one smoke detector and a false sense of security. The fire we had was so hot that by the time the smoke detector sounded it was too late. We now realize that to have adequate protection the home must have heat detectors as well as smoke detector (CX 130C).

b. We suggest that you watch the film and draw your own conclusions as to whether you want the protection provided by a cheap smoke detector or the protection offered by a combination system (CX 130C).

c. As the oxygen content in the air is burned up and the carbon monoxide increases your senses are gradually dulled so that you sleep more soundly. This is one of the main causes of residential fire fatalities (CX 130D). [10]

d. They die because the fire is not discovered in time for them to get out (CX 130E).

e. Vanguard can give you that extra measure of life safety when the fire starts (CX 130F).

f. We know we had made the right decision as we heard the life saving sound of the heat detector which warned us of an overheated furnace. Without this protection the result could have been a tragedy (CX 130F).

g. Tests show that you may have as little as 1.8 minutes to escape with your life (CX 130G).

h. We have all ready [sic] saved thousands of lives and million of dollars in property (CX 130M).

i. Numerous fire authorities recommend the Vanguard system (CX 130M).

j. Chief Joe Armstrong of the Andover Fire Department, Chief Boyd Tuttle, Columbia Fire Department and Chief Ray Gergeler, Eagleville Fire Department witness the activation of the first alarm only 15 seconds after the start of the fire in a demonstration house fire. The heat detector located on the ceiling at the top of the adjoining room activated only five seconds after the first detector. The third heat detector located on the ceiling at the top of the stairwell activated four seconds later. It took nearly 33 seconds for the smoke detector to activate (CX 130M).

k. Automobile accidents kill thousands of people each year just as fire does. If you could get a device that you could put on your car to let you know two or three minutes before you have a wreck to allow everyone to get safely out of the car, would you want one? Certainly you would. Everybody knows there is no such device for cars but there is for fire. That is exactly what Vanguard is (CX 130N).

B. Promotional Brochures And Booklets

41. CX 61, entitled *Disneyland Hotel is a Pioneer in Life Safety (Disneyland Hotel)* is a 8-page promotional piece copyrighted by Interstate Engineering in 1981, 1982 and 1983. The cover page bears, in addition to the title, a large [11] photograph of the Disneyland Hotel. During the in-home sales presentation, Vanguard distributors make CX 61 available to prospective purchasers (Hammack 247; McGee 638). Interstate produces and distributes CX 61 and has sold about 14,000 copies to its distributors (CX 61, Interrogatory No. 34). Irv Sterner, Interstate's Vice President of Marketing, is of the opinion that CX 61 is the third most effective pieces of Vanguard heat detector promotional literature (CX 135, Admission No. 51).

42. CX 61, *Disneyland Hotel*, purports to report the results of an activation test of 175 Vanguard heat detectors that had been in use in the Disneyland Hotel in Anaheim, California, since January 1960. The test was conducted at Interstate's facilities on October 16, 1980 (CX 61C).

43. According to CX 61, in this first-time-anywhere, large-scale "dependability test" of mechanical heat detectors, all of the 175 Vanguard heat detectors, each of which had remained at its installation site without service for as long as 20 years, "responded within the designated temperature range by sounding a loud alarm lasting four and five minutes."

44. CX 61C also contains the following statements:

This proof of long-term dependability did not surprise the manufacturer. VANGUARD heat detectors came into existence in 1959 and since then Interstate Engineering has received over one thousand letters evidencing the saving of thousands of lives through the use of millions of VANGUARD heat detectors.

The VANGUARD heat detectors used in the activation had been installed in the two-story garden style guest rooms of the Disneyland Hotel in January, 1960 and since VANGUARD heat detectors do not require maintenance, each remained at its installation site without service. The Disneyland Hotel estimates that, since the heat detectors were installed, 4,343,255 people have stayed in rooms having VANGUARD heat detectors. Because the heat detectors performed so well, the Disneyland Hotel installed the latest model of the VANGUARD Thermosonic Heat Detector (as well as a smoke detector) in each room already having a VANGUARD heat detector when those rooms were remodeled.

Interstate Engineering also markets VANGUARD smoke detector alarms, fire escape ladders and fire extinguishers. [12]

45. CX 61C, which is followed by three pages of photographs, bears a notation printed in bold types, at the bottom of the page, which reads:

IMPORTANT

The presence of representatives from the Disneyland Hotel, the Los Angeles County Fire Department and the Orange County Fire Department in no way represents an endorsement of the items tested.

The United States Government, fire authorities, Interstate Engineering (a Figgie International Company), and VANGUARD distributors strongly recommend the installation of an adequate number of early fire warning detection devices.

46. The following page, CX 61D, shows two photographs. The top half of the page shows a large number of heat detectors arranged on a long table. Standing behind the table is a small group of men. The legend to the left of this photograph reads: "Participating in the test were IEC personnel and Captain Richard Schiehl, (third from right) Los Angeles County Fire Department and Fenton Hill, (second from right) Disneyland Hotel." The bottom half shows a partial view of a table bearing several rows of heat detectors and two uniformed officers, standing behind the table, and one examining a detector held in his hands. The legend to the left of this photograph reads: "(l-r) Captain Richard Schiehl, Los Angeles County Fire Department and Captain Charles Pister, Orange County Fire Department timing the four to five minute alarm cycle."

47. CX 61E shows two photographs. The top half of the page shows a man, standing by a table bearing a number of heat detectors, examining a detector held in his hands. Standing next to the man is a uniformed officer holding a notepad in one hand and looking at the detector hand-held by the other man. The legend to the right of the picture reads: "Captain Charles Pister, Orange County Fire Department and Fenton Hill, Disneyland Hotel observing the condition of the VANGUARD heat detectors prior to the test." The bottom half of the page shows a long display table bearing rows of heat detectors and a man holding a hair-dryer like apparatus over a heat detector. Opposite him across the table stands a uniformed officer looking on and picking up a heat detector. The legend to the right reads: "(l-r) John Kelly, IEC director of consumer relations activating VANGUARD heat detectors while Captain Richard Schiehl of the Los Angeles County Fire Department checks the gauge type thermometer in order to note the temperature at which the activation occurs." [13]

48. CX 61G contains the following statement:

New VANGUARD heat detector alarms were recently installed in the Garden Villas at The Disneyland Hotel.

Features that made early models of the VANGUARD heat detector so reliable have been maintained while some outstanding improvements have been made. VANGUARD'S latest innovations over the heat detectors formerly in use at the Disneyland Hotel include:

- A doubling of the sensitivity range
- Increased escape time due to a faster response time
- The decibel level of the alarm has been raised
- The duration of the alarm sound has been increased
- The state of fail-safe readiness is assured because the heat detector cannot be fused unless the alarm is fully powered.

The Disneyland Hotel now has the benefit of all these improvements in their heat detectors, and in addition smoke detectors have also been installed.

49. The top half of the last page, CX 61H, shows a large photograph of a five heat detector/one smoke detector configuration. The legend which appears below the photograph reads:

VANGUARD Thermostatic Heat Detector Alarms and VANGUARD Smokesonic
Smoke Detector Alarm

50. CX 63 is a one-page promotional piece styled as a red-letter news release bulletin directed to Interstate distributors, issued in July 1978, and features quotations attributed to a U.S. National Bureau of Standards official. The headline quotation reads: "HEAT DETECTORS HAVE PROBABLY SAVED MORE LIVES AND [14] PROPERTY THAN ANY OTHER FIRE DETECTION DEVICE." The narrative portion of this "news release bulletin" prints two quotations purportedly taken from a speech by Richard W. Bukowski, U.S. Bureau of Standards, Center for Fire Research, given at the National Fire Protection Association (NFPA) Annual Meeting in Anaheim, California. The bulletin then states:

We are pleased to see the U.S. National Bureau of Standards recognize these important facts. Those of you who have been protecting families with Vanguard know from first-hand experience how true these National Bureau of Standards statements are. They exactly summarize the position Vanguard has taken in recommending "combination systems" through the years.

It means the **only** way to provide complete and sure fire-warning protection is by using both smoke detectors and heat detectors, by using completely non-electrical devices in addition to the electrical devices and by combining long-lived reliability with timely response.

If one is **not** going to have a fire, it is a total waste of money to install even one detector. But, if one is going to have a fire, he had better have complete and sure fire-warning protection. At the present state-of-the-art, there is no other way to accomplish this except with a "combination" system of smoke detectors guarding the approaches to the bedrooms and mechanically-powered heat detectors in the other major rooms.

51. During the sales presentation, Vanguard distributors make CX 63 available to prospective purchasers (Hammack 247). Interstate prepares and distributes CX 63 (CX's 63, 77B).

