Guide for Preparing Annual Reports on Radiation Safety Testing of Electronic Products (General)

October 1987 (Supersedes June 1983 version)

For manufacturers of electronic products (general), this guide replaces FDA 82-8127

The reporting and recordkeeping requirements contained herein have been approved by the Office of Management and Budget in accordance with the Paperwork Reduction Act of 1980 (OMB Approval No. 0910-0025).

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Food and Drug Administration
Center for Devices and Radiological Health
Rockville, Maryland 20857



Food and Drug Administration Rockville MD 20857 December 1, 1987

TO: All electronic product manufacturers subject to the annual reporting requirements of 21 CFR 1002.11, pursuant to the "Radiation Control for Health and Safety Act of 1968"

SUBJECT: Filing of Annual Reports on Radiation Safety Testing

Public Law 90-602, the Radiation Control for Health and Safety Act of 1968, directs the Department of Health and Human Services to evaluate testing programs carried out by industry to assure the adequacy of safeguards against hazardous electronic product radiation and to assure that products comply with performance standards. This Law also requires that manufacturers of electronic products establish and maintain records and provide performance data on radiation safety and information on their testing programs.

To carry out its responsibilities under P.L. 90-602, the Food and Drug Administration's Center for Devices and Radiological Health (CDRH) has issued a series of regulations contained in Title 21 of the Code of Federal Regulations (CFR). Part 1002 of 21 CFR deals with records and reports. Section 1002.61 categorizes electronic products into Groups A through C. Section 1002.30 requires manufacturers of products in Groups B and C to establish and maintain certain records, while Section 1002.11 requires such manufacturers to submit an Annual Report summarizing the contents of the required records. Section 1002.7 requires that reports conform to reporting guides issued by CDRH unless an acceptable justification for an alternate format is provided.

SAVE THIS REPORTING GUIDE AND USE IT EACH YEAR. When a revision is issued, you will be sent a copy. Separate guides are available for other types of products as indicated on the facing page. You must submit your Annual Report by September 1 of each year unless you have received a letter of exemption from CDRH under 21 CFR 1002.50. You should duplicate the forms in this guide for inclusion in your report and retain a copy of the completed report for your records. Proprietary information should be specifically and clearly marked. Information submitted in your report will be used to evaluate your testing program, identify safety problems, and make decisions on the level and type of monitoring programs to be conducted by FDA, such as product testing and factory inspections.

Upon receipt of your Annual Report, CDRH will send you an acknowledgment letter with an accession number which you should reference whenever you submit additional information. You will receive further notification only if additional information or clarification is needed.

Send your completed report to:

CENTER FOR DEVICES AND RADIOLOGICAL HEALTH OFFICE OF COMPLIANCE (HFZ-307)
ATTN: ELECTRONIC PRODUCT REPORTS
2098 GAITHER ROAD
ROCKVILLE MD 20850

Walter E. Gundaker

Director

Office of Compliance

NOTE

For manufacturers of electronic products other than those for which a specific guide has been issued, this guide replaces the "Guide for the Filing of Annual Reports (21 CFR Subchapter J, Section 1002.11)," HHS Publication FDA 82-8127. The electronic product (general) annual reporting guide is applicable to the following products:

- products intended to produce x radiation (accelerators, analytical devices, therapy x-ray machines)
- microwave diathermy machines
- cold-cathode discharge tubes
- vacuum switches and tubes operating at or above 15,000 volts.

Guides for preparing Annual Reports on specific products are available on request, as listed below. Contact the Division of Small Manufacturers Assistance by telephone at 1-800-638-2041, 301-443-6597, or by facsimile at 301-443-8818. They are also available under http://www.fda.gov/cdrh.

Guides for Preparing Annual Reports on Radiation Safety Testing of:

- 1. Television Receivers
- 2. Cathode Ray Tubes
- 3. Laser and Laser Light Show Products
- 4. Mercury Vapor Lamps
- 5. Sunlamps and Sunlamp Products
- 6. Ultrasonic Therapy Products
- 7. Dielectric and Induction Heaters
- 8. X-Ray Components and Systems
- 9. Microwave Ovens (this guide is combined with the "Guide for Preparing Reports on Radiation Safety of Microwave Ovens")

REMINDER

ACCIDENTAL RADIATION OCCURRENCES

You are required by 21 CFR Subchapter J, Section 1002.20, to immediately report accidental radiation occurrences. Report to the Director, Center for Devices and Radiological health, all accidental radiation occurrences reported or otherwise known to you and arising from the manufacture, testing, or use of any product you have introduced, or intend to introduce, into commerce.

General

For ease of photocopying, all instructions are on the left-hand pages while the corresponding forms are on the right-hand pages. You need to submit only the completed forms and any information you have provided on separate sheets. If you use separate sheets or additional copies of the forms, label each page with sequential lettering. Example: Page 3a, Page 3b, Page 3c.

The forms provide blanks to be filled in, boxes to be checked, and tables or graphs to be completed. They may be prepared with a typewriter or hand-printed in black ink.

Part 1. Manufacturer/Importer Identification

Fill in the requested information and sign where indicated. Fill in the years in the reporting period. Example: The report due on September 1, 1988, should cover the reporting year July 1, 1987, through June 30, 1988.

Check the statement and fill in the report identification if you are submitting a supplement to an Annual Report.

Type of Product: Check the type of product you are reporting.

<u>Product Specifications</u>: List any voluntary industry standards your product is designed to meet.

Part 2. Production Status

Check the statement that applies to your firm and take the indicated action.

Part 1. Manufacturer/Importer Ider	ntification Report Date:		
Manufacturer:			
This Annual Report is submitted in a July 1, 19through June 30, 19		11 for	the period
This is a supplement to Annual R submitted on(date	·		
Corresponding Official:			
	(Signature)	· ()
(Name)	(Title)		(Telephone)
<pre>Importer: (Complete if applicable)</pre>			
Address:			
Corresponding Official:			
Corresponding Officials	(Signature)	(
(Name)	(Title)		(Telephone)
Type of Product: Accelerators, analytical devices, Microwave diathermy machines Cold-cathode discharge tubes Vacuum switches or tubes operat Other (Specify):			
Product Specifications:			
The product meets the following vol	untary industry standards:		
Part 2. Production Status Products were manufactured dur check this, complete and mail th	-	still i	n business. <u>If you</u>
No products were manufactured expects to manufacture in the furpages 1 and 4.	during this period but the firm		
No products were manufactured If you check this, complete Part		is no	w out of business.
Products were manufactured duryou check this, complete and ma	ing this period but the firm is	now o	ut of business. <u>If</u>

Part 3. Current Production Tabulation

Provide production data, using the form or a comparable tabulation. If additional space is needed, use another copy of the form or attach a separate sheet and label it "Part 3."

- "Accession No.": For previously reported models, CDRH will have assigned this number and reported it to you.
- "Brand": You may use a code for each brand in the chart. On a separate sheet, provide the complete address for each importer or distributor of each brand and identify any codes. Label the sheet Part 3.
- "Discontinued (mo/yr)": Provide discontinuation date for any model that is no longer in production but was produced at some time during the reporting period.
- "Plant Location": Codes may be used. On a separate sheet, provide the complete address for each manufacturing location and identify any codes. Label the sheet "Part 3."

Part 4. Procedures for Quality Control and Testing

You are required by 21 CFR 1002.30(a)(1) and (2) to maintain written procedures for quality control and testing. The procedures in use and those submitted in the Initial, Model Change, or Annual Reports should be reviewed and updated.

Compare your current procedures with those submitted in your Initial, Model Change, or Annual Reports. Check the appropriate answers and take any indicated action.

Part 3. Current Production Tabulation

Accession Number	Model Number	Brand	No. of Units Produced	Intro. Into Commerce (mo/yr)	Discon- tinued (mo/yr)	Plant Location
				·		
			•			

Part 4. Procedures for Quality Control and Testing

The written procedures for assessing and maintaining radiation safety hereviewed. (These may include prototype testing, type testing of accele materials testing, assembly testing, retesting after repair, and service procedures for maintaining quality control testing equipment have also All procedures are up-to-date, complete, and accurate.	rators, incoming testing.) The
The reports provided to CDRH for each model family currently in produce reviewed and the procedures contained in them are up-to-date, complete	uction have been
	YES NO
If you answered "no" to either question, provide the current procedures to the appropriate model family report.	in a supplement

Part 5. Summary of Test Results

You are required by 21 CFR 1002.30(a)(2) to maintain results of quality control tests. For each product introduced into commerce, you should evaluate test results to be certain that the total program is adequate to assure radiation safety.

For products displaying aging effects that may increase electronic product radiation emission, you are required by 21 CFR 1002.30(a)(3) to maintain results of life tests. Summarize tests on prototypes (if applicable) and on final products.

Report all test results, using the table provided, or give comparable data on a separate sheet and label it Part 5.

"Type of Test": On each line of the table indicate the type of test with a letter and a number, using these codes:

- C = Component test
- P = Prototype test (or type test of accelerators)
- Q = Quality control test during or after production
- A = Audit test of a sample of completed products
- L = Life test
- 1 = Maximum output of radiation intended to be emitted
- 2 = Maximum leakage (unintentionally emitted) radiation
- 3 = Timer (e.g., accuracy, reproducibility)
- 4 = Calibration of controls for setting radiation output (e.g., kVp, mA)
- Examples: 1. For tests during production of microwave diathermy applicators, to determine leakage radiation, indicate "Q-2".
 - 2. For tests on a new accelerator design for proper function of controls, indicate "P-4".

If you use other codes, identify them on the bottom of the table or on a separate sheet labled "Part 5".

[&]quot;Measurements": Specify the quantity and units.

[&]quot;Failed Components": If any components failed that could affect the radiation safety of the product, indicate the type of components and number of failures.

Part 5. Summary of Test Results

Madal	No Haite	Type of	Measurem		
Model Number	No. Units Tested	Type of Test	Mean or Range	Std. Dev.	Failed Components
	:				
			·		
		:			

Part 6. Correspondence Concerning Radiation Safety

You are required by 21 CFR 1002.30(a)(4) to maintain copies of communications to or from dealers, distributors, and purchasers concerning radiation safety. Correspondence should be reviewed if it involves any of the following: complaints or concerns about radiation exposure; difficulties with safety components in use or servicing of the product; investigations made or instructions issued concerning use, adjustment, and repair.

Fill in the number of documents sent or received and attach the copies, summaries, or samples as indicated.

NOTE: This summary does not replace the notification requirements for potential defects or noncompliances under 21 CFR 1003.10 or for suspected accidental radiation occurrences under 21 CFR 1002.20.

Part 7. Distribution Records

All manufacturers of products subject to this guide, except manufacturers of vacuum switches and tubes operating at or above 15,000 volts or manufacturers who have been granted an exemption, are required by 21 CFR 1002.30(b)(1) and (2) to maintain distribution records. Such records must allow tracing of products to the dealer and, if possible, to the user.

Fill in the information on the location of records storage and check the means of tracing products. Enter "not applicable" "NA" if you manufacture vacuum switches or tubes operating at or above 15,000 volts.

Part 6. Correspondence Concerning Radiation Safety