SEP 17 1998 030 32498

VOID SHEET

TC:	License	ree	Management	Brancn
ROM:	Ant	how	V S.V	Tirkuo.

SUBJECT: VOIDED APPLICATION

Control Number: A Applicant: 2-Enua 9 Late Voided: Reason for Void: D Severa .0 cettern Obtain Je Were RL egavding 2 ma ryvan on SS 96-9 3 10 au to agree wit Corvected reals D ERROR fou I during review 9/17/98 Odte Signature

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Attachment: Utficial Record Copy of Voided Action

FOR LEMB USE ONLY

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Final Review of VUID Completed:

Refund Authorized and processed

No Refund Due

Fee Exempt or Fee Not Required

aptin Klin Comments: 230003

Log completed Processed by:

midd

PDR 9809230325 980917 PDR RC * PDF

Kidde-Fenwal, Inc. ATTN: Bill Sawyer Radiation Safety Officer 400 Main Street Ashland, Massachusetts 01721

Dear Mr. Sawyer:

This refers to a request in a letter dated October 6, 1996, from Robert MacNutt, to amend device Registration Certificate No. NR-668-D-101-E, requesting to add Kidde-Fenwal (KF) as a manufacturer of the Model CPD-705X smoke detector, in addition to Nohmi-Bosai (NB), in Japan.

After several attempts, we were unable to obtain sufficient information regarding the quality assurance/quality control program to complete this action (enclosure 1 identifies specific issues of concern). As a result, we are stopping our review of this item and will take no further action. This is without prejudice to the submission of a new application. If you choose to submit a new application, please ensure that your application fully and clearly addresses all items in Appendix C of Regulatory Guide 6.9 (RG 6.9), Establishing Quality Assurance Programs For The Manufacture And Distribution Of Sealed Sources And Devices Containing Byproduct Material, dated February 1995 (enclosure 2), and also ensure that the issues in enclosure 1 are specifically addressed.

During our review, we noticed that the maximum quantity per device for Model CPD-705X was listed as 1.6 micorcuries on the your exempt distribution license, and listed as 1.5 microcuries on the registration certificate. To correct this, please find enclosed a corrected copy of Amendment No. 02 of NRC License No. 20-15285-03E, listing the maximum quantity per device for Model CPD-705X as 1.5 microcuries (enclosure 3). Please note that the expiration date has been changed to reflect the one-time extension of license described in our letter to you dated June 4, 1996.

Please note that you must continue to abide by all current requirements in your registry certificate and exempt license.

If you have any questions, please call me at (301) 415-7273.

Sincerely,

151

Mr. Steven Baggett, Deputy Branch Chief Materials Safety Branch Division of Industrial and Medical Nuclear Safety, NMSS

Enclosures: as stated

Distribution: IMNS r/f

NE01 NR 608-0- W - 98-32

MBurgess, MSB

DOCUMENT NAME: H:\EXEMPT\32.26\VOID\KIDDEFEN.ML1 **To receive a copy of this document, indicate in the box:** "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

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DATE	09/17 /98	09/	/98		an and a rest of the second	

OFFICIAL RECORD COPY

SPECIFIC ISSUES OF CONCERN - QUALITY ASSURANCE (Information from new binder sent on 6/3/98)

Below are listed specific comments pertaining to the documents that were submitted in support of the request to add Kidde-Fenwal (KF) as a manufacturer of the Model CPD-705X smoke detector. If Kidde-Fenwal chooses to submit a new application, the application must fully and clearly address all items in Appendix C of Regulatory Guide 6.9 (RG 6.9), Establishing Quality Assurance Programs For The Manufacture And Distribution Of Sealed Sources And Devices Containing Byproduct Material, dated February 1995 (Enclosure 2), and specifically address the issues listed below.

KF manufactured and distributed detector

- 1. Although the LTPD 5% leak test in RG 6.9 was committed to for multiple units on one wipe sample, the threshold is still 0.005 microcurie per wipe (not per device). Dividing total surface area wiped on multiple units with a single wipe as you discussed is not consistent with our longstanding position (see RG 6.9)(see # 5 also).
- Although the RG 6.9 LTPD 5% sample for design conformity and labels on the point of sale package were committed to, KF also needs to add the labels on the detector to this sample (see # 6 also).

NB manufactures and distributes to KB

- 3. Please note that if KF is relying on NB QA/QC to satisfy the distributor requirements in Appendix C of RG 6.9, then KF must commit to auditing NB. Audits can be performed by KF, or by an independent third-party contracted by KF. Your application should describe what the auditing will check for, and frequency of audits. Otherwise, KF must perform the checks in the U.S., prior to distribution.
- 4. Conflicting information is found in the submittal. For example, the letter dated 11/27/91 refers to: (1) LTPD 5% sample rates for the label checks in Appendix M (9.1, c.) which conflicts with 100% label checks listed in the letter text (see Appendices L, Item 2. & O, Item 3); (2) LTPD 5% sample rates for leak checks in Appendix M (9.1, b) conflict with a step-down 5/2½/1% (straight percentage) leak check plan in the letter text which refers to Appendix P, Item C. (also note that depending on the lot size, the straight percentage plan listed may not be consistent with RG 6.9 LTPD 5% sampling numbers); (3) Appendix H, ItemA. and Appendix P, Item B. first article design conformity checks conflict with RG 6.9 LTPD 5% design conformity checks. Your application should describe the sampling plans that will be used, and should not contain conflicts between sections of the application and/or RG 6.9.
- 5. For multiple units on one wipe sample, the threshold is still 0.005 microcurie per wipe (not per device). Dividing total surface area wiped on multiple units with a single wipe as you discussed in Appendix M is not consistent with the requirements in RG 6.9.
- 6. Design conformity checks were not submitted in Appendix O for NB outgoing quality

procedure nor adequately covered in Appendices H, L and R to fully ensure that the design meets all drawings submitted in support of the application, e.g., only gross checks of dimensions of outside cover/base and insect screen were provided. NB needs to commit to check dimensions and materials critical to remainder of ion chamber design, such as: 1) materials and dimensions of ion chamber components and circuit board dimensions and 2) ion chamber and smoke detector assembly.

KF QC on NB manufactured product arriving in the U.S.

- 7. Appendix P sampling plan does not satisfy minimum sampling rates in RG 6.9 Appendix C table on wipe testing (see # 4).
- 8. In Appendix P, the information listed in the second paragraph of Paragraph C. through all of Paragraph D. is not sufficient to meet RG 6.9 table on design conformity required of the distributor. Note that an alternate approach to meeting these requirements would be for NB to perform the design conformity checks at the RG 6.9 table on design conformity sample size, then KF to perform audits of NB (see #3).
- 9. Paragraph E. of Appendix P needs to clarify that 100% of <u>the lot</u> will be re-examined if one reject is detected in the sample.

NRC FORM 374

FileCopy

U.S. NUCLEAR REGULATORY COMMISSION

PAGE _____OF ____PAGES

Amendment No. 02

MATERIALS LICENSE

CORRECTED COPY

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

	In accordance	with dated			
	August 14, 199	August 14, 1992,			
Kidde-Fenwal, Inc.	er 20-15285-03E is amended in				
	its entirety to re				
400 Main Street		4. Expiration date October 31, 2001			
Ashland, Massachusetts 01721	Raffer and a free start of the	5. Docket No. 030-32498			
		20-15285-02E			
 Byproduct, source, and/or special nuclear material 	7. Chemical and/or physical form	 Maximum amount that licensee may possess at any one time under this license 			
A. Amreicium-241	A. Foil sources (Nuclear Radiation Development Model A-001, Amersham Corp. Models AMM-1001, AMM- 1001H or AMM-1001D)	A. Not Applicable (See Condition 10)			
devices specified in Condition 1	CFR Part 32, the licensee is authorized 10 to persons exempt from the requirer , or equivalent provisions of the regulat	ments for a license pursuant to			
		ions of any Agreement State.			
	CONDITIONS				
	CONDITIONS levices may be distributed pursuant to e device does not exceed the amounts	this license provided the amount of			
	levices may be distributed pursuant to e device does not exceed the amounts	this license provided the amount of			
Americium-241 contained in the	levices may be distributed pursuant to a device does not exceed the amounts <u>Maximum Qui</u>	this license provided the amount of specified in the following table: antity per Device			
Americium-241 contained in the Device Model	levices may be distributed pursuant to e device does not exceed the amounts <u>Maximum Qui</u> 1.5 microc	this license provided the amount of specified in the following table: antity per Device uries			
Americium-241 contained in the Device Model CPD-702X	levices may be distributed pursuant to e device does not exceed the amounts <u>Maximum Qui</u> 1.5 microc 1.5 microc	this license provided the amount of specified in the following table: antity per Device uries uries			
Americium-241 contained in the <u>Device Model</u> CPD-702X CPD-704X	levices may be distributed pursuant to e device does not exceed the amounts <u>Maximum Qui</u> 1.5 microc 1.5 microc	this license provided the amount of specified in the following table: antity per Device uries uries			
Americium-241 contained in the Device Model CPD-702X CPD-704X	levices may be distributed pursuant to e device does not exceed the amounts <u>Maximum Qui</u> 1.5 microc 1.5 microc	this license provided the amount of specified in the following table: antity per Device uries uries			
Americium-241 contained in the <u>Device Model</u> CPD-702X CPD-704X	levices may be distributed pursuant to e device does not exceed the amounts <u>Maximum Qui</u> 1.5 microc 1.5 microc	this license provided the amount of specified in the following table: antity per Device uries uries uries			

	FORM 374A U.S. NUCLEAR REGUL	ATORY COMMISSION	PAGE 2 of 2 PAGE		
			License Number 20-15285-03E		
	MATERIALS LICENSE		Docket or Reference Number 030-32498		
SUPPLEMENTARY SHEET					
			Amendment No. 02		
			CORRECTED COPY		
		CONDITIONS			
-		CONDITIONS			
CO	ntinued)				
1.	This license does not authorize possession	on or use of licens	ed material.		
2.	The licensee may distribute only from its	facility located at	400 Main Street, Ashland, Massachusetts.		
3.	The licensee shall file periodic reports as	specified in Section	on 32.29(c), 10 CFR Part 32.		
4.	Except as specifically provided otherwise	by this license, th	e licensee shall conduct its program in		
	accordance with the statements, represent	ntations and proce	dures contained in the documents, including		
	any enclosures, listed below. The Nuclea	ar Regulatory Com	mission's regulations shall govern unless the		
	restrictive than the regulations.	lies in the licensee	e's application and correspondence are more		
	A. Application letter dated August 14, 1	002			
	B. Letter dated November 27, 1991;				
	C. Letter dated December 9, 1991;				
	D. Letter dated May 27, 1992;E. Letter dated August 14, 1992;				
	F. Letter dated August 24, 1992;				
	G. Letter dated October 6, 1996;				
	H. Letter dated Februaary 28, 1997, wit	th enclosure;			
	I. Facsimile dated April 8, 1997; and				
	J. Facsimile dated July 29,1997.				
		FOR THELLS	NUCLEAR REGULATORY COMMISSION		
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A	E: SEP 1 7 1998' BY:	ORIGINAL SIGN	JED BY		
~	DT.	Anthony S. Kirkv	vood		
		Materials Safety	Branch		
		Division of Indus			
		Medical Nuclea			
		and Safeguard	r Material Safety s		
		Washington, D.C.			

From:	"W E Sawyer" <w.e.sawyer@kidde-fenwal.com></w.e.sawyer@kidde-fenwal.com>
To:	"ask@nrc.gov" <ask@nrc.gov></ask@nrc.gov>
Date:	6/16/98 13:21
Subject:	Licsence renewal

Tony,

To answer your question regarding the inspection of devices that are built in-house.

If you look at the radiation safety manual, page 29, there is a sentence that says "Completed order of above units must be wipe tested as follows before delivery to shipping". This would indicate that the units are completely assembled, prior to packaging, and ready for shipment. If this is not sufficient please notify me.

Thanks, Bill



KIDDE FENWAL, INC.

400 Main Street, Ashland, MA 01721 Tele: (508) 881-2000 FAX: (508) 881-6729

Facsimile Cover Sheet

To: Tony Kirkwood Company: N.R.C. Phone: 301-415-6140 Fax: 301-415-5369

From: Bill Sawyer Company: Kidde-Fenwal Phone: 508-881-2000 x2746 Fax: 508-881-6729

Date: 06/17/98

Pages including this cover page: 2

Comments:

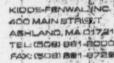
Tony,

Enclosed is the explanation of the original letter dated November 27, 1991. Hopefully this answers your concerns that we discussed yesterday.

Please call me if this is not adequate, or if you have any further questions. My phone number is listed above or you can reach me via e-mail to; WE Sawyer@Kidde-Fenwal.com

> Thank you, **Bill Sawyer**

6/11/98



Tony Kirkwood U.S. Nuclear Regulatory Commission Washington D.C. 20555

Dear Tony,

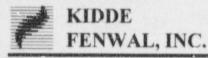
This letter is a modification of the original license ammendment request dated November 27, 1991. As per our telephone conversation on June 16, 1998, section 3.3.5 titled Quality Control, part B. Kidde-Fenwal, Inc. Quality Control Program and Procedures, the portion that refers to the standards for incoming inspection means that all units containing radioactive material shall be in accordance with specifications set forth in "Product Performance Specifications Revision 008" (appendix r), and that Mil-Std-105E has been updated to ANSI/ASQC Z1.4-1993 Sampling Procedures.

If there is any other questions please contact me.

Bill Sawyer Radiation Safety Officer

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400 Main Street, Ashland, MA 01721 Tele: (508) 881-2000 FAX: (508) 881-6729

Facsimile Cover Sheet

To: Tony Kurtwood Company: N.R.C. Phone: 301-415-6140 Fax: 301-415-5369

From:	Bill Sawyer
Company:	Kidde-Fenwal
Phone:	508-881-2000 x2746
Fax:	508-881-6729

Date: 06/03/98

Pages including this

cover page: 1

Comments:

You should see the revised binder coming in via Federal Express soon. Sorry about the delay. The questions that you had regarding receiving inspection are addressed. Appendix p. contains a copy of Kidde-Fenwal's document that is used for incoming inspection of Nohmi detectors. Other changes that have been made include;

- The addition of K-F's Quality System Manual, (this addresses the question on ISO 9001.
- Appendix d. ; includes copies of the labels for packaging.
- Appendix k., has been updated from document number MS3-13 to MS3-13a.
- · Appendix I. ; has been updated
- Appendix m.; has been revised to reflect current procedures as outlined in our radiation safety policy ?
 RS-1).

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- Appendix 0. ; validity has been verified.
- Appendix p.; modified to reflect current procedures and documentation.
- Appendix q. ; updated from mil standard 105E to ANSI/ASQC Z1.4-1993.
- Appendix r. ; verified most current revision.

Also note that the newly revised edition of our radiation safety policy (RS-1) has been enclosed

If there is any other questions please call.

TELEPHONE CONVERSATION RECORD	Date: April 28, 1998	Time: 16:18
Mail Control No.: 021878	License No.: 20-15285-03E	Docket No.: 030-32498
Person Called: David Palardy, Facilities Mgr./Bill Sawyer, RSO	Organization: Kidde-Fenwal	Telephone Number: 508-881-2000

Person Calling: Anthony S. Kirkwood

Subject: Amendment request of 10/6/96

Summary: Left a message for Mr. Palardy on 4/27/98, that the info. he sent us on 4/23/98, in response to Mr. Baggett's questions of 4/15/98, we already had. Mr. Bill Sawyer, the new RSO, returned my call today and I relayed to him Mr. Baggett's questions and my own. Mr. Baggett's were:

1) An explanation of what KF does to ensure units from Japan meet the design specs sent to NRC. I told him I believed this was already answered, at least in part, by their letter to us dated 11/27/91, with appendices.

2) KF's QA/QC program needs an expanded outline of its ISO 9000 program including inspection of units and frequency, leak testing and design review, final inspection and contamination tests on pkg. before it goes out the door.

My questions were:

1) In the 11/27/91 letter, 3.3.5, B.1. refers to the QC standards as being for "incoming" inspections. Asked him to delete incoming so it would apply to all. Mr. Sawyer said newer version probably has this (RS-1).

2) Asked Mr. Sawyer to be more specific about the exact time leak tests are performed prior to final packaging in IR-101. Where it now refers to leak testing before delivery to shipping he stated it is in fact after assembly and before packaging. He will specify this.

Mr. Sawyer will respond in two weeks or less.

Action Required/Taken: Refer to SLB, MXM1 and copy to file.

Signature: A Kilwood

Date:

APR 2 8 1998





KIDDE FENWAL, INC. 400 Main Street, Ashland, MA 01"21 Tele: (508) 881-2000 FAX: (508) 881-6729

Facsimile Cover Sheet

To: Steve Baggit

Company: NRC Phone: 301-415-7273 Fax: 301-415-5369

From: Dave Palardy Company: Kidde-Fenwal

Phone: 508-881-2000 Fax: 501-881-8834

Date: 04/23/98

Pages including this cover page: 6

Comments:

Steve.

I have attached pages from our RS-1 policy which governs the way in which we handle ionization sources at incoming inspection. If you would like a complete copy of RS-1, I can send it via mail. In terms of design review, the smoke detector itself could not be changed without a formal engineering change order review. All pertinent documentation is under our configuation control system.

Please call if you have further questions. I'll try to reach you later today.

Thanks.

djp

002

Policy RS-1

Section No.	8	Rev. No.	С
Issue Date	6-6-97	Approved	W.E.S.
Page	30	of	62

9. Wipe Test Procedures for Kidde-Fenwal, Inc. (Incoming shipments from Nohmi Bosai, Ltd.)

Kidde-Fenwal will perform the following incoming tests at Receiving Inspection:

9.1 Determine sample ize required from NRC 10 CFR Sub Part C - Quality 8. Control Sampling 'rocedure #32.110. "Table 6 lot tolerance percent defective 5.0 percent. (Except in lot size 2001 to 100,000, the acceptance number is 0. See enclosed copy).

> Example: A lot size of 50,000 detectors are received for incoming inspection from Nohmi. Nohmi's test results must be included. The procedure is as follows:

b. Select sample size from table 6 lot tolerance percent defective 5.0 percent.

Sample size - 75 pieces with an acceptance number of 0.

- C. Check all 75 pieces from proper labels and markings. If there is one failure, missing label or incorrect markings, the lot must be screened 100%.
- d. Proceed to Step 9.2.
- 9.2 Wipe the entire surface area of 75 detectors using the same filter paper (Whatman #40 or equivalent filter paper) (4.25CM diameter) or wipe three separate lots of 25 detectors each using a separate filter paper for each lot.
- 9.3 Determine the background count using the Ludlum Model 2000 scaler or equivalent.

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- 9.4 Using the Ludlum Model 2000 scaler or equivalent, determine the count of the filter paper (75 detectors) from step 9.1, or using the same equipment, determine the count of each individual filter paper per 25 units for a total of 3 filter papers (75 units total) if second option from step 9.2 is employed.
- 9.5 Subtract the background count from the sample wipe count. This is the wipe's actual count.
- 9.6 Calculate the total disintegrations/minute (DPM) by dividing the actual count by 0.14, the efficiency factor for Americium 241.
- 9.7 Calculate disintegrations/sq. CM by dividing total disintegrations/minute by the total surface area of the detector (for Model 7051, surface area is 200 sq. CM). For 75 units, the reading is 15,000 sq. CM. For 25 units, the reading is 5,000 sq. CM.
- 9.8 Any wipe greater than 50 DPM/CM² shall be brought to the attention of the Facilities Manager for Corrective Action.
 - NOTE: The Nohmi 7051 can be considered to be a cylindrical object. Diameter 3.75", Height 0.75".

 $A = (2)\pi (R)^2 + \pi (D)(H) = 30.9 \text{ sq.}" = 200 \text{ sq. CM}$

- Your immediate action in the event of failures. Example:
 - a. Reject shipment and notify Nohmi. Place lot in hold area.
- 2. Corrective Action Plan from Nohmi is required, including the following:
 - a. Identification of cause for non-conformance.
 - b. Plan to eliminate cause for non-conformance.
 - c. Time table for completion of Corrective Action Plan.

Section No.	8	Rev. No.	С
Issue Date	6-6-97	Approved	W.E.S.
Page	32	of	62

NOTE: The actual Wipe Test results from Nohmi must be included with each shipment. Failure to supply data will result in the rejection of the lot.

Test results from Nohmi and Kidde-Fenwal must be retained by Kidde Fenwal for inspection by the Agency on their audits of our Quality System.

10. Final Product Wipe Test Procedure for Nohmi Bosai, Ltd.

Manufacturer of the CPD-705X Smoke Detector.

The following sample shall be taken at Final Inspection by Nohmi prior to shipping the product to Kidde-Fenwal, Inc.

10.1 a. Determine sample size required from NRC 10 CFR Sub Part C - Quality Control Sampling Procedure #32.110. "Table 6 lot tolerance percent defective 5.0 percent. (Except in lot size 2001 to 100,000, the acceptance number is 0. See enclosed copy).

> Example: A lot size of 50,000 detectors are ready for shipment to Kidde-Fenwal, the procedure is as follows:

b. Select sample size from table 6 lot tolerance percent defective 5.0 percent.

Sample size - 75 pieces with an acceptance number of 0.

- c. Check all 75 pieces from proper labels and markings. If there is one failure, missing label or incorrect markings, the lot must be screened 100%.
- d. Proceed to step 10.2.

Section No.	8	Rev. No.	С
Issue Date	6-6-97	Approved	W.E.S.
Page	33	of	62

10.2 Wipe the entire surface area of 75 detectors using the same filter paper (Whatman #40 or equivalent filter paper) (4.25CM diameter) or wipe three separate lots of 25 detectors each using a separate filter paper for each lot.

Determine the background count using the Ludium Model 2000 scaler or 10.3 equivalent.

Using the Ludlum Model 2000 scaler or equivalent, determine the count of the 10.4 filter paper (75 detectors) from step 10.1, or using the same equipment, determine the count of each individual filter paper per 25 units for a total of 3 filter papers (75 units total) if second option from step 10.2 is employed.

- 10.5 Subtract the background count from the sample wipe count. This is the wipe's actual count.
- 10.6 Calculate the total disintegrations/minute (DPM) by dividing the actual count by 0.14, the efficiency factor for Americium 241.
- 10.7 Calculate disintegrations/sq. CM by dividing total disintegrations/minute by the total surface area of the detector (for Model 7051, surface area is 200 sq. CM). For 75 units, the reading is 15,000 sq. CM. For 25 units, the reading is 5,000 sq. CM.
- Any wipe greater than 50 DPM/CM² shall be brought to the attention of the 10.8 Facilities Manager for Corrective Action.
 - NOTE: The Nohmi 7051 can be considered to be a cylindrical object. Diameter 3.75", Height 0.75".

 $A = (2)\pi (R)^2 + \pi (D)(H) = 30.9 \text{ sq.}^{"} = 200 \text{ sq. CM}$

- 1. Your immediate action in the event of failures. Example:
 - a Stop shipment and screen the lot 100%.
 - b. Check stock (determine in Correction Action Step if stock requires screening).

Section No.	8	Rev. No.	С
Issue Date	6-6-97	Approved	W.E.S.
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2. Corrective Action Plan, including the following:

- a. Identification of cause for non-conformance.
- b. Plan to eliminate cause for non-conformance.

c. Time table for completion of Corrective Action Plan.

NOTE: The actual results must be included with each shipment. Failure to supply data will result in the rejection of the lot.

Kidde-Fenwal must also perform the same test upon receiving.

Test results from Nohmi and Kidde-Fenwal must be retained by Kidde Fenwal for inspection by the NRC or the agency on their audits of our Quality System.



UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

*TELEPHONE CONVERSATON RECORD	Date: August 21, 1997	Time: 13:07
Mail Control No.: 021878	License No.: 20-15285-03E	Docket No.: 030-32498
Person Called: Bob MacNutt/Bob Harris	Organization: Kidde-Fenwal	Telephone Number: 508-881-2000 x2733

Person Calling: Antnony S. Kirkwood

Subject: Amendment request of 10/6/96

Summary: Mr. MacNutt again told that as per registry review (Michelle Burgess), need to have KF let us know when, what, where and how Kidde-Fenwal checks for design conformity of its product Model 705X, such as measurements. Not conformity checks of the foil source. Mr. MacNutt said he'd take another stab at it and agreed to provide the information as soon as possible.

Action Required/Taken: Await reply and refer to MLB for status check and MXM1 for MS 15, deficiency telephone call.

Signature:

a. Kilowood

8/21/97 Date:

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UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555-0001

TELEPHONE CONVERSATON RECORD	Date: August 8, 1997	Time: 11:42
Mail Control No.: 021878	License No.: 20-15285-03E	Docket No.: 030-32498
Person Called: Bob MacNutt/Bob Harris	Organization: Kidde-Fenwal	Telephone Number: 508-881-2000 x2733

Person Calling: Anthony S. Kirkwood

Subject: Amendment request of 10/6/96

Summary: Mr. MacNutt told that as per registry review (Michelle Burgess), need to have KF commit to having certificates of leak test of every incoming source holder and certificates of design conformity. Also need to know when and how Kidde-Fenwal checks for design conformity. Finally need to know when the last leak test is done.

On 8/7/97, Mr. MacNutt again told, after his response to the above, that we still need to know the when, how and where of the design conformity checks, such as measurements, of his Model 705X. Not conformity checks of the foil source. Mr. MacNutt seem to understand and agreed to provide the information as soon as possible.

Action Required/Taken: Await reply and refer to MLB for status check and MXM1 for MS 15, deficiency telephone call.

Signature:

a Kirkwood Date: 8/8/97

TELEPHONE CONVERSATION RECORD	Date: October 22, 1997	Time: 13:59
Mail Control No.: 021878	License No.: 20-15285-03E	Docket No.: 030-32498
Person Called: Bob MacNutt/Bob Harris	Organization: Kidde-Fenwal	Telephone Number: 508-881-2000 x2733

Person Calling: Anthony S. Kirkwood

Subject: Amendment request of 10/6/96

Summary: Mr. MacNutt stated that the only difference between IR-101 and RS-1 is some state required info. for radium storage. We can use the IR-101 as the current policy. Let him know if any parts we need are not included in our copy. Informed him I need to take another look at the info. he submitted and respond to the senior reviewers questions. This might include additional questions for him. He said feel free to call him if any additonal info. needed.

Action Required/Taken: Refer to MLB

ask

Signature:

Date:

10/22/97



KIDDE-FENWAL, INC. 400 MAIN STREET ASHLAND, MA 01721 USA TEL: (508) 881-2000 FAX: (508) 881-6729

October 21, 1997

U.S. Nuclear Regulatory Commission Attn: Ms. Susan Greene Div. of Industrial & Medical Nuclear Safety Washington, DC 20555-0001

Dear Ms. Greene:

Mr. Robert A. MacNutt, Kidde-Fenwal's contact person with your agency, is retiring at the end of October 1997. He will be replaced by Mr. David J. Palardy, Facilities Manager. Please change your records to reflect this transfer of personnel in our organization.

Our NRC license for distribution of smoke detectors is No. 20-15285-03E.

Sincerely,

KIDDE-FENWAL, INC.

R Herris

Robert A. Harris Radiation Safety Officer

cc: T. Holcomb, V.P., Operations D. Palardy, Facilities Manager

KIDDE FENWAL, INC.

400 Main Street, Ashland, MA 01721 Tele: (508) 881-2000 FAX: (508) 881-1255

2001

Facsimile Cover Sheet

To: Tony Kurtwood Company: N.R.C. Phone: 91-301-415-6140 Fax: 91 301-415 5369

From: Robert A. MacNutt

Company: Kidde-Fenwal, Inc. Phone: (508) 881 2000 ext. 2733 Fax: (508) 881 1255

any more

Date: 08/28/97 Pages including this cover page: 4

Comments: Tony, enclosed is a draft for your comments. Dun Lout need

2002

DRAFT

KIDDE-FENWAL, Inc. 400 Main Street, Ashland, Massachusetts 01721-2150

August 28, 1997

U.S. Nuclear Regulatory Commission 11545 Rockville Pike Rockville M.D. 20852-2738 Mail TWFN, Mail Stop T8F5

Subject:

Request for additional information on Kidde-Fenwal's controls on our manufacturing process of our model CPD 705X, Ionization smoke detectors. devises.

Dear, Mr. Tony Kurtwood, Michelle Burgers

Kidde-Fenwal's "Quality System" is certified under ISO 9001-1994, ANSI/ASQC Q9001-1994 by two ISO Registrars, AGA Quality and The Loss Prevention Certification Board. Every six months we receive an assessment by one of the Registrars for conformance to meeting the ISO 9001-1994 requirements.

In addition to this control of our quality system Kidde Fenwal conducts monthly internal audits of our quality system.

Our Ionization Radiation program is controlled under Kidde-Fenwal's Policy RS-1. The purpose of this program is to define the requirements for the use, handling, processing, application, transfer, storage and removal of all sources, materials, instruments, machine, devices and equipment which produce, generate or emit ionizing radiation as defined by the applicable cited Massachusetts and Federal regulations. Enclosed is a copy of the "Index" from the Policy RS-1.

The enclosed "Index" defines the areas of control including safe guards and tests performed. The "Bill of Material and our Operation Sheets" for the product part number defines the part numbers (includes revision levels) and the operation sequence to manufacture and assemble the Ionization detector. Included on the operation sheet are the tests required and the engineering or manufacturing engineering specifications to assure that the product is tested properly. Operators must record that the operations are performed and in some areas must record their results. During manufacturing and assembly of the detectors the inprocess and final inspection of the devices are QCA stamped off as the product meets specifications.

DRAFT

Leak checks and conformity checks are performed at various steps in the process. Receiving inspection personnel shall check incoming lots of sources, mounted in holders, to assure that a "Certificate of Conformance" for leak testing and conformity has been enclosed. Receiving inspection on incoming lots shall include wipe tests per our Policy RS-1. Conformity checks are performed on 100 % of the units during the calibration process.

Typical sequence of the assembly of Ion Detectors (10 steps):

- 1. Attach source assy to PCB assembly.
- Attach intermediate electrode to support plate and attach outer chamber to PCB. Align Electrode and complete the assembly.
- Solder Fet/Connector assy and clean solder joints.
- 4. Complete assembly.
- Input current test per MES-1577.
- Smoke test MES-1860 (this is the calibration and test procedure, performed on 100% of the units. The Conformity check of each source is checked).
- Correlation Smoke Test- Sample test to determine response time per specification.
- 8. Attach label and pack.
- 9. Wipe test per IR 101 policy (final pkg. test), also wipe of area.
- 10. Ship.

toutlesse

During this sequence operators must sign off on each sequence. Inprocess inspection require QCA stamp off for conformity of calibration, written numerical date codes and serial numbers, conformity to specification and blue print and general workmanship, all functional tests and final conformance on packaging including wipe tests. Final acceptance is also QCA stamped off to ship the product.

Bal marnut

 Section No.
 Index
 Rev. No.
 BA

 Issue Date
 6-6-97
 Approved

KIDDE-FENWAL, INC. INDEX

SECTION	NO.	TITL	E
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i.

Index

- ii. Introduction and Signature Page
- iii. Forward
- iv. Organzational Responsibility
- 1. Definitions
- 2. Employee Qualifications and Health Provisions
- 3. Safety, Administration Of
- 4. Safety Precautions, Personal Hygiene
- 5. Survey Instruments and Controls
- 6. Film Badge Radiation Monitoring
- 7. New or Revisions to Manufacturing/Test Areas
- 8. Radiation Survey Procedures Manufacturing Areas
- 9. Wipe Test
- 10. Maximum Permissible Exposure
- 11. Manufacturing Plan
- 12. Manufacturing Layout Restricted Area
- 13. Training Program
- 14. Procurement
- Receiving Inspection of Incoming Sources
- 16. Sealed Sources
- 17. Storage of Radioactive Material
- 18. Waste Disposal
- 19. Repairs to Equipment and Work Areas
- 20. X-Ray Laboratory
- 21. Notification of Accidents, Material Accountability
- 22. Record Retention
- 23 Radiation Safety Officer Job Description
- 24 Receiving and Opening Packages containing Radioactive Material
- 25. Procedure for: Return and Inventory Control of Radium Smoke Detectors
- 26. Disassembly of Radium Smoke Detectors



KIDDE FENWAL, INC. 400 Main Street, Ashland, MA 01721 Tele: (508) 881-2000 FAX: (508) 881-1255 Facsimile Cover Sheet To: Tony Kurtwood Company: N.R.C. Phone: Fax: 91 301-415 5369 From: Robert A. MacNutt Company: Kidde-Fenwal, Inc. Phone: (508) 881 2000 ext. 2733 Fax: (508) 881 1255

Date: 07/29/97

Pages including this

cover page: 4

cc: Tom Holcomb, Jack Ronayne

Comments:

- NRC Tony Kurtwood's questions on Kidde-Fenwal's request for an amendment to our licence:
- When sources are received at Kidde-Fenwal, does the lot come in with a "Certificate of Conformance" containing checks for "Leak Testing" and "Conformity"? Lots must not be accepted without this document.
 - Answer: The sources for the 705x model will be purchased from NRD Corporation. Kidde-Fenwal's drawing (06-117926-001) will be revised to include the requirement " A Certificate of Conformance" is required from the supplier(NRD) to certify that leak checks and conformity checks meet specification". Lots received without this document are subject to return. Lots without this "Certicate" will not be accepted.
- 2. When and how does Kidde-Fenwal check for "Conformity" and how do you check ? In addition where is this information/requirement stated ?

Answer:

Kidde-Fenwal will revise our Policy number IR-101 " Ionizing Radiation" to add a section on Receiving Inspection Procedure for receiving foils mounted in holders.

This procedure will instruct receiving inspection to perform wipe tests per the IR 101 Policy(Receiving inspectors have been trained) and forward the wipes to our Radiation Safety Officer. (Kidde-Fenwal's engineering department is revising our foil/holder print to add the requirement that our supplier (NRD) include a Certificate of Conformance for leak checks and conformance checks with each shipment).

Receiving Inspection will not accept the lot without the Certificate of Conformance for leak checks and conformance.

In addition each foil is checked 100% for Conformance[®] during assembly per the following Ion Source Conformance check:

Below is a description of what is presently being done to confirm **Ion source** levels are consistent with our requirements:

At the time of assembly, each detector undergoes a calibration process and functional test. As part of this process, analog data is read by the microprocessor and communicated as a digital count value to the PC in the test station. For the ion detector, this process verifies the analog voltage level produced from the source chamber. Three readings cre taken both in clear air, and at a 1.5%/ft smoke level. The calibration software compares these readings against set limits which are used to reject faulty detectors. The acceptance limits allow for expected variance due to the source, supply voltage, component tolerances, smoke levels, etc. Thus, an ion source which has a radiation level significantly above or below our specified values would produce a high or low reading and be rejected by this test.

Acceptance Criterion:

The following limits are implemented in the Calibration software to identify detectors that are responding outside their expected design limits:

Dat <u>a Item</u>	A/D Counts
Clear Air Minisnum Counts	110
Clear Air Maximum Counts	155
Maximum Deviation in Clear Air Readings	8
1.5%/ft smoke level Minimum Counts	153
1.5%/ft smoke level Maximum Counts	203
Maximum Deviation in 1.5%/ft Readings	12
Minimum Span between Clear Air and 1.5%/ft smoke Counts	38
Maximum Span between Clear Air and 1.5%/ft smoke Counts	63
NOAKUDT	

- 3. When is the last "LeakTest " perform at Kidde-Fenwal ?
 - Answer: The final packaging operation on our Route Sheet per our Ionizing Radiation Policy IR-101 section 9B. See enclosed copy.

We will forward a revised copy of our Radiation Policy IR-101 when completed.

Policy IR - 101

Section No.	9B	Rev. No.	BA
Issue Date	3-24-97	Approved	AR
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B. WIPE TEST PROCEDURE FOR KIDDE-FENWAL, INC. FINAL PRODUCT (KIDDE-FENWAL MANUFACTURED UNITS #CPD-702X, CPD-704X and CPD-705X)

Completed order of above units must be wipe tested as follows before delivery to Shipping:

- 1. Determine sample size based on number of units in order, using Table #6 of NRC 10 CFR sub part C, Quality Control Sampling Procedure #32.110 (LTPD of 5.0%).
- 2. Wipe the total surface area of the number of detectors determined from step 1 above, using a Whatman #40 or equivalent filter paper (4.25CM diameter).
- 3. Determine the background count using the Ludlum Model #2000 Scaler or equivalent.
- 4. Similarly count the wipe in questions per step 3 above.
- 5. Subtract the background count (step 3) from the wipe's count (step 4), this is the wipe's actual count.
- 6. Calculate the total disintegrations/min. DPM by dividing the actual count by the efficiency factor, for Americium 241. The efficiency factor is 0.14.
- 7. Calculate DPM/sq. cm by dividing the DPM from Step 6 by the total surface area wiped (this is the surface area of one detector, determined by std. mathematical techniques multiplied by the sample size from step 1 above).
- Any wipe greater than 50DPM/CM² shall be brought to the attention of the QA Manager for corrective action.
- 9. Wipe test results are to be recorded on Form D-185 per work order route sheet.

TELEPHONE CONVERSATON RECORD	Date: July 22, 1997	Time: 9:44
Mail Control No.: 021878	License No.: 20-15285-03E	Docket No.: 030-32498
Person Called: Bob MacNutt/Bob Harris	Organization: Kidde-Fenwal	Telephone Number: 508-881-2000 x2733

Person Calling: Anthony S. Kirkwood

Subject: Amendment request of 10/6/96

a. Kirkwood

Summary: Mr. MacNutt told that as per registry review (Michelle Burgess), need to have KF commit to having certificates of leak test of every incoming source holder and certificates of design conformity. Also need to know when and how Kidde-Fenwal checks for design conformity. Finally need to know when the last leak test is done.

Action Required/Taken: Await reply and refer to MLB for status check and MXM1 for MS 15, deficiency telephone call.

Signature:

Date: 7/22/97

TELEPHONE CONVERSATON RECORD	Date: July 11, 1997	Time: 10:17
Mail Control No.: 021878	License No.: 20-15285-03E	Docket No.: 030-32498
Person Called: Bob MacNutt/Bob Harris	Organization: Kidde-Fenwal	Telephone Number: 508-881-2000 x2733

Person Calling: Anthony S. Kirkwood

Subject: Amendment request of 10/6/96

Summary: Mr. MacNutt has retired and is only in the office on Tues-Thurs. Bob Harris is on extended leave for 6 weeks. George Vachon, engineer (x2479) not at desk left message at voice mail. As per Michelle Burgess, need to have KF commit to leak test of every incoming source holder.

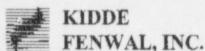
Action Required/Taken: Await reply and/or refer to SC for review.

a. Kirlowood

Signature:

Date:

7/11/97



400 Main Street, Ashland, MA 01721 Tele: (508) 881-2000 FAX: (508) 881-1255

Facsimile Cover Sheet

To: Tony Kirkwood

Company: United States Nuclear Regulatory Commission Phone: (301) 415-6140 Fax: (301) 415-5369

From: Bob MacNutt, Quality Manager

Company: Kidde-Fenwal, Inc. Phone: (508) 881-2000 Ex2733 Fax: (508) 881-1255

Date: 04/08/97

Pages including this cover page:

Comments:

Sorry about the delay in answering your fax. Enclosed are answers to your questions:

NRC Questions: (Kidde-Fenwal, Inc. Deficiency Questions):(reference KF's Policy IR-101).

- In what form will Kidde receive sources: Foils in buttons or holders. 1.
- 2. If not foil only, prior to final packaging:

1) LTPD 5% sampling for Removable Contamination on Button or Ion Chamber.

2) LTPD 5% Sampling for Design Conformity.

- LTPD sample is 5% for labels on POS pkg(point of sale package). 3.
- Application dated. 8/14/92. QC separates Nohmi and Kidde-Fenwal QA program. Where 4. or how will they be combined ?

Kidde-Fenwal's QA program will not combine the two programs into one system. Please refer to Kidde-Fenwal's Ionizing Radiation program IR-101, "Rules and Regulations for the Protection of the Health and Safety of Personnel". In this policy we provide for both programs, first the Nohmi Bosai's shipments of completed product into Kidde-Fenwal, that includes the tests required by Nohmi and the tests required by Kidde-Fenwal on receiving final product. Second, the IR-101 Policy includes the quality program for Kidde- Fenwal's smoke detectors, manufactured at Kidde-Fenwal, both our Models CPD-702x, CPD-704x and the manufacturer of the Nohmi product, CPD-705x at the Kidde-Fenwal's site.

TELEPHONE CONVERSATON RECORD	Date: April 4, 1997	Time: 10:33
Mail Control No.: 021878	License No.: 20-15285-03E	Docket No.: 030-32498
Person Called: Bob MacNutt	Organization: Kidde-Fenwal	Telephone Number: 508-881-2000 x2733

Person Calling: Anthony S. Kirkwood

Subject: Amendment request of 10/6/96

Summary: On 4/2/97, Mr. MacNutt was asked:

1. In what form will you receive sources: foils only, foils in buttons, or foils in completed ion chambers?

- 2. If not foil only, prior to final packaging:
 - a. LTPD sample 5% for contamination?
 - b. LTPD sample 5% for design conformity?
- 3. LTPD sample 5% for labels on POS pkg?
- 4. Application dtd. 8/14/92, QC, separates Nohmi and Kidde QA programs. Where or how will they be combined?

Action Required/Taken: Await reply and/or refer to SSSS for QA review.

Signature: Date: 4/4/97 a. Hirlswood



UNITED STATES NUCLEAR REGULA' ORY COMMISSION WASHINGTON, D.C. 20555-0001 4/2/97

OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY

FAX TRANSMITTAL

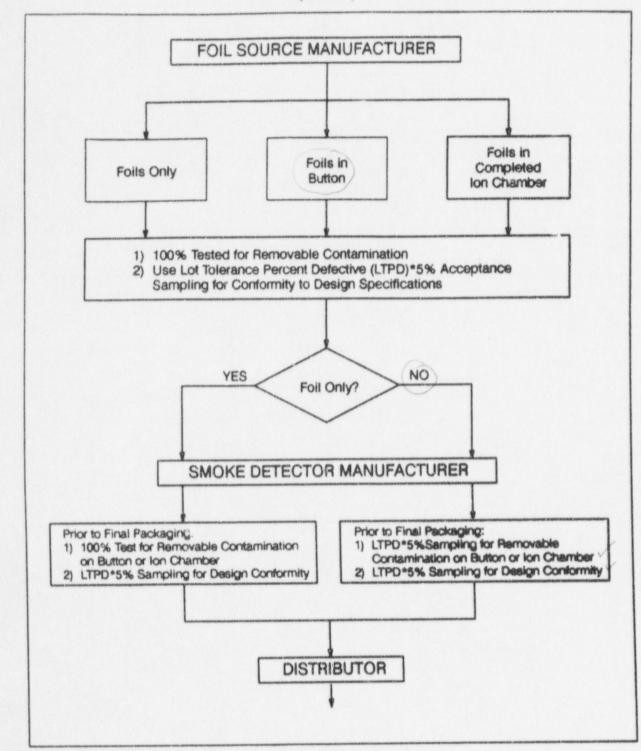
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1. Bob Mac Mutt FAX # (508) 881-1255	nun anzanderader einen reichter einer eine	Fenwal	
2 FAX # ()		<u>()</u>	
3 FAX # ()	VERIFICATION	(
4		()	
COMMENTS.			
COVER SHEET PLUS PAGES			
FROM: JONY KIRKWOOD	0		
PHONE: (301) 415-640			

FAX: (301) 415-5369

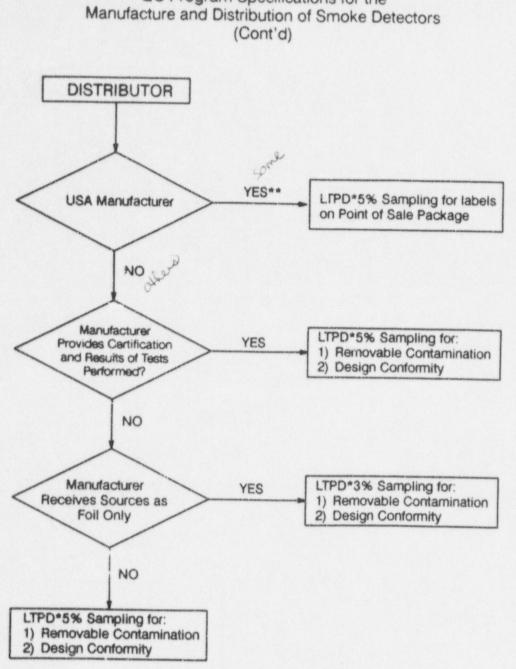
Kidde-Fenwal Deficiency Questions:

- 1. In what form will you receive sources: foils only, foils in buttons, or foils in completed ion chambers?
- If not foil only, prior to final packaging:
 a. LTPD sample 5% for contamination?
 b. LTPD sample 5% for design conformity?
- 3. LTPD sample 5% for labels on POS pkg?
- 4. Application dtd. 8/14/92. QC. separates Nohmi and Kidde QA programs. Where or how will they be combined?

QC Program Specifications for the Manufacture and Distribution of Smoke Detectors (Cont'd)



*LTPD acceptance sampling is based on the attached charts.



QC Program Specifications for the

-LTPD acceptance sampling is based on the attached charts.

** Based on reliability/inspectability of USA fabrication records and facilities.

From: Anthony Kirkwood To: CJB Date: 3/4/97 11:59 Subject: Kidde-Fenwall

CJB,

Deficiency telephone call to Bob Harris on 2/20. Need the background material for the 4/27/92 registry sheet before making changes to it and license. Is mailing today.

C # 021878

Thanks, Tony

CC: KBR



KIDDE-FENWAL, INC. 400 MAIN STREET ASHLAND, MA 01721 USA TEL: (508) 881-2000 FAX: (508) 881-6729

February 28, 1997

Dear Mr. Curtwood,

Please find enclosed:

One three ring binder which is the supporting documentation for letter dated November 27, 1991

One three ring binder for Kidde-Fen, val's radiation safety program IR-101. This is the policy now in place and is currently undergoing review and will be updated to reflect latest N.R.C. changes. As an I.S.O. approved facility, it is also intended at this time to tie as many aspects as possible into our standard operating procedures manual. If I can be of any further help please contact me.

Respectfully,

Lobert A. Harris Radiation Safety Officer

TELEPHONE CONVERSATON RECORD	Date: February 13, 1997	Time: 13:21
Mail Control No.: 021878	License No.: 20-15285-03E	Docket No.: 030-32498
Person Called: Bob MacNutt	Organization: Kidde-Fenwal	Telephone Number: 508-881-2000 x2733

Person Calling: Anthony S. Kirkwood

Subject: Amendment request of 10/6/96

a Kuburod

Summary:Mr MacNutt informed that his action would have to be referred to SSSS for review of the QA program in order to change the sentence in the registry sheet which says the Model CPD-705X is manufactured completely in Japan. He thought that this had been already done and would look for info and send tomorrow if found. In the mean time I told him I would refer the action to SSSS.

He had no problem with making the license max amt agree with the registry - 1.5 uCi.

Action Required/Taken: Await reply and/or refer to SSSS for QA review.

Signature:

Date:

2/13/97

2001 NR-663-D-101-E

	KIDDE-FENWAL, 1 400 Main Street Ashland, MA 017.21	NC. Tel: (508) 881-2000 Fax: (508) 881-8920
		FAX COVER SHEET
DATE:	FE	BRUARY 5, 1997
COMPANY	/: U.:	S. NUCLEAR REGULATORY COMMISSION
ATTENTIC	IN: TO	NY CURTWOOD M O'BRIEN
FAX #:	(30	1) 415-5369
FROM:		B HARRIS DIATION SAFETY OFFICER
SUBJECT:	TE	LEPHONE CONVERSATION
TOTAL # O		

1

In response to your telephone conversation with Bob Macnutt on February 3,1997 I am faxing two requested documents.

1. Letter dated December 13, 1991 (one page complete)

2. Letter dated November 27, 1991 (two pages no enclousers) As part of this letter there is a nine page application supported by an index appendix listing for twenty supporting documents which fill a 1 1/2 tabbed 3ring binder.

If you need the documents supporting item 2, Please fax K-F Inc. and supply a mailing address. A copy will then be made and mailed



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TELEFAX COVER LETTER

DATE: 12-13-91

TO: Mr. Sterling Bell COMPANY: U.S. Nuclear Regulatory Commission LOCATION: Maryland FAX NO.: 301-492-0260

FROM: R.A. MACNUTT, QUALITY MANAGER

SUBJECT: _____ Changes to our registration certificate to better clarify

<u>the models that we use under our distribution license.</u> WE ARE SUBMITTING A TOTAL OF <u>1</u> PAGE, INCLUDING THIS COVER LETTER. IF YOU DO NOT RECEIVE ALL OF THE PAGES, PLEASE CONTACT US AS SOON AS POSSIBLE.

Dear Mr. Bell:

1

In our telephone conversation on December 13, 1991, we discussed the models listed in my November 27, 1991 letter.

The following change is requested to our registration certificate to better clarify the Models that we use under our distribution license!

We have two series, the Kidde-Fenwal, Inc. manufactured series CPD 702X-4X and the Nohmi's manufactured series 705X.

Kidde-Fenwal, Inc. Series CPD 702X-4X consisting of models 7021, 7023, 7040 and 7044 at the present time. These four models denote minor variations of the same model, such as electronic circuit changes (with UL approval), sensitivity range changes (with UL approval). In all cases, the source and ion chamber design will not be changed.

The second series CPD 705X will be manufactured by Nohmi Bosai, Ltd. in Japan and distributed by Kidde-Fenwal, Inc.

If you have any questions please contact me.

Sincerely,

Rolad q manule



K DOE FENWAL INC 400 MAIN STREET ASHLAND, MA 01721 TEL (308) 951-2000 FAX (508) 851-6729

November 27, 1991

. 1

Sterling W. Bell Sealed Source Safety System Medical, Academic and Commercial Use Safety Branch Division of Industrial and Medical Nuclear Safety, NMSS U.S. Nuclear Regulatory Commission Washington, D.C. 20555

Dear Mr. Bell:

This is to request amendment of Fenwal's Registration Certificate No. NR-668-D-101-E to change our name from "Walter Kidde & Company, Inc., Fenv Division" to "Kidde-Fenwal, Inc." and to provide for the Kidde-Fenwal Mo e CPD705X smoke detector.

Detailed information on radiation safety features of the CPD705X, and also information on its ability to perform as a products of combustion detector, are contained in our enclosed application. It may be noted that the CPD705X uses the Amersham AMM 1001 foil which Fenwal and other manufacturers have extensively used in detectors. Also, although the detector is designed for commercial and industrial use, it requires only a single 0.7 microcurie AM-241 source.

Labels on the detector and point-of-sale package will comply with the requirements of Section 32.29(b).

The CPD705X will be manufactured by Nohmi Bosai, Ltd. in Japan and distributed in the U.S. by Kidde-Fenwal, Inc. The quality control program at Nohmi Bosai and the quality control program at Kidde-Fenwal combine to ensure our distribution of a high quality product. The respective programs of Nohmi Bosai and Kidde-Fenwal are detailed in our application for amendment.

(Nov. 27, 1991/S. Bell)

Page 2 of 2

۰.

1. 1.

Recently, you suggested that at a convenient time, I should inform you about which of the detector models now listed in NR-668-D-101-E are no longer distributed by Kidde-Fenwal. Of the six models now listed in the registration certificate, we only distribute the CPD-7021.

We would like to create three series of detectors. The first series CPD-702X Series consisting of models CPD-7021 and CPD-7023, and the second series CPD-704X Series, consisting of models CPD-7040 and CPD-7044. These four models (CPD-7021, CPD-7023, CPD-7040 and CPD-7044) denote minor variations of the same model (CPD-7021), such as electronic circuit changes (with UL approval) and sensitivity range change (with UL approval). In all cases, the source and the ion chamber design will not be changed.

The requested amendment to add the third series of smoke detectors is the Nohmi's manufactured series CPD-705X that will be distributed in the United States by Kidde-Fenwal, Inc.

As required by 10CFR170.31.9A, enclosed with our application for amendment of NR-668-D-101-E is our check for \$1200.

If any questions arise in your consideration of our application, please call me, I am available to meet.

Sincerely,

Gl. Oa. man Male

Robert A. MacNutt Quality Manager

Encl:

 Application of Nohmi Ion Chamber Registration

(2) Amendment fee check for \$1200

2004

TELEPHONE CONVERSATON RECORD	Date: 15 Jan 97	Time: ~3 pm
Mail Control No.: 021878	License No.: 20-15285-03E	Docket No.: 03032498
Person Called: Robert MacNutt	Organization: Kidde-Fenwal	Telephone Number: 508- 881-2000 x2733

Subject: Amendment request of 6 Oct 96

Summary: Mr.MacNutt was asked what maximum activity was being requested for the CPD-705x. He stated 1.6 uCi so as to allow for a safety margin should the 1.5 uCi activity normally expected be exceeded. He added the reason for the amendment request was to ensure that the Amersham sources could be used. Mr. Kirkwood stated that license conditions 6, 7, and 8 (for both the distribution and possession/use licenses) already apply to specific Amersham sources and if these were the sources required then no amendment was necessary. Mr. MacNutt responded that they weren't sure if the amendment was necessary but submitted it to be on the "safe side".

We recommended that the QC plan for the CPD-705x be integrated with the QC plan for the CPD-702x and 704x rather than being a separate part of the amendment supplement. Mr. MacNutt agreed.

Mr. O'Brien suggested that specifying an alpha scintillation probe rather than any type of alpha detector (e.g. thin window GM) for the CPD-705x receipt procedure in the QC plan may be too limiting. He also added that although a source check is recommended before a receipt survey, a calibration is generally an annual requirement and not necessary prior to each receipt survey. Mr. O'Brien stated the Regulatory Guide 6.9 would be sent for further information on this subject.

Action Required/Taken: 1. Inquire about difference in maximum activity listing (1.5 uCi versus 1.6 uCi) between SSDR sheet and the distribution license.

2. Send Regulatory Guide 6.9

Signature: a. Kitewood

Date: 1/17/97

October 31, 1996

ASSIGNMENT NUMBER: 96-104

Mr. Robert MacNutt Kidde Fenwal, Inc. 400 Main Street Ashland, MA 01721

SUBJECT: ACKNOWLEDGEMENT OF REQUEST FOR SAFETY EVALUATION

Dear Mr. MacNutt:

This letter acknowledges the receipt of your October 6, 1996, application that requested a safety evaluation and registration of the Model CPD 705X Smoke Detective. We have performed a cursory review of your application and determined that enough information has been provided to allow a technical reviewer to initiate the evaluation process. Applications are assigned to technical reviewers on a first-in basis. Therefore, your application will be assigned in turn. Please note that the technical reviewer may contact you to request information that was omitted from your application or to obtain clarification of technical issues co. perning your application. If you have any questions concerning the status of your application or please contact me at (301) 415-7857. Please reference the assignment number listed above in your questions or correspondence.

Please be aware that your request may be subject to the NRC's application fees in accordance with 10 CFR Part 170. Therefore, a copy of your application has been forwarded to the License Fee and Debt Collection Branch for approval of the fee category and amount. If you have any questions concerning the fees associated with your application, please contact the License Fee and Debt Collection Branch at (301) 415-7554.

Sincerely,

151

KimBerly Randall, Registration Assistant Sealed Source Safety Section Medical, Academic, and Commercial Use Safety Branch Division of Industrial and Medical Nuclear Safety Office of Nuclear Material Safety and Safeguards

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SSS r/f	SSD-96-104
Baggett	NEO1H-

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LICENSING TRACKING SYSTEM

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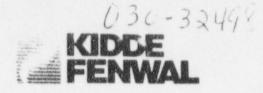
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DOCKET NO : 03032498	LICENSE NO : 20-1528	5-03E STATUS: 0	Isa
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FED. GOVT : C	INST. CODE : 15285	LICENSE REGION: 0	' A
ISSUE DATE: 921102	ORIGINAL DATE: 910920	EXPIRATION DATE: 2001103	1 /1
NAME : KIDDE-FEN	WAL, INC.	DECOM FIN ASSUR REQD: N SUBM:	
DEPT/BUREAU:		CONT PLAN REQD: N APPR	V:00
BUILDING :			44
STREET : 400 MAIN	STREET		
CITY : ASHLAND	Sill Sauryers STATE: MA	ZIP: 01721	1
CONTACT PERSON: ROBERT	A. MACNUTT QUALITY MGR	PHONE: 508-881-2000	
		ES:	
	PRIORITY CODE: 5		
RADIATION SAFETY OFFIC	ER: Bill Sawyes	2	
	2 - ALL	AS STATE IN ADDRESS	
AUTHORIZED STATES:	- 101 - 6	AGREEMENT STATES (USE ONLY IF ABOVE IS Z	ERO)
REPORTING IDENTIFICATI	ION SYMBOL:		
APPROVAL FOR: REDISTRI TEMPORARY JOB	BUTION: N STORAGE ONL SITES: N INCINERATIO BURIAL: N	Y: N N: N	~
EXEMPTIONS: (1)	(2)		W.D.S
		manil	t#03
		U.	

SIB, ASK.

Maurean, MS 23- Void Thanks, Jong

October 6, 1996



KIDDE-FENWAL, INC 400 MAIN STREET ASHLAND, MA 01721 USA TEL (508) 881-2000 FAX (508) 881-6729

Division of Industrial and Medical Nuclear Safety Office of Nuclear Material Safety and Safeguards U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001

20-15285-03E

Dear Ms. Greene:

Pursuant to 10 CFR part 170.31 Category 9A, Kidde-Fenwal asks that license N.R. 668-D-101-E be amended and enclosed is the \$1200 amendment fee.

Kidde-Fenwal Inc. would like to amend the N.R.668-D-101-E registration as it applies to the series CPD 705X smoke detectors.

Nohmi Bosai Ltd., Japan is inaccurately listed as the sole manufacturer of CPD 705X smoke detectors. Kidde-Fenwal Inc. also manufactures some lines of the CPD 705X series at its 400 Main Street, Ashland, MA plant as authorized by its N.R.C. license #20-15285-01. Additionally, Kidde-Fenwal currently purchases the ion source assemblies from Nohmi Bosai Ltd., but also, intends to purchase the ion source assemblies directly from either Amersham or N.R.D. Inc.

The requested amendment is believed to be strictly a language change addition due to the following:

- 1. Amersham and NRD Inc. are the source assembly suppliers listed on Kidde-Fenwal inc. licenses.
- 2. All supporting documentation submitted in the past indicate Amersham and NRD Inc. as the Americum 241 source suppliers for the CPD 705X Smoke Detectors and this will not change.
- 3. The Americum 241 radioactive material sources listed on current Kidde-Fenwal, Inc. licenses and their supporting documentation remains the same as previously authorized by N.R.C.
- 5. The design and construction of the housing does not change.
- 6. The end product remains the same.

SUMMARY:

Amersham or N.R.D. Inc. are the Americum 241 foil source manufacturers of record. They are the NRC approved suppliers of sealed sources listed on Kidde-Fenwal Inc.'s N.R.C. licenses.

021878

Ms. Susan L. Greene October 2, 1996 Page 2 of 2

All supporting documentation submitted in the past remains the same. Kidde-Fenwal Inc. wants to expand the license language to include Kidde-Fenwal Inc. as one of the CPD 705X series manufacturing facilities with the authority to purchase the ion source assemblies directly from either Amersham, N.R.D. Inc.or Nohmi and as such will use the identical radioactive sources currently authorized for the assembly of the CPD 705X products. Again it is emphasized that there will be no changes made to the source assembly or to the end product as it relates to ion source assemblies and Americum 241.

Kidde-Fenwal Inc. continues to maintain and conduct all its NRC approved/mandated Radiation Safety Programs and Procedures in support of its smoke detector manufacturing processes. Robert Harris is the current Radiation Safety Officer. N.R.C. was notified of R.S.O. change July 3, 1996 and Kidde-Fenwal Inc. awaits the amendment change naming Mr. Harris as the R.S.O.

If you have any questions, please contact Robert MacNutt, Q.A. Manager at Kidde-Fenwal, Inc. (508) 881-2000, extension 2733.

Sincerely,

KIDDE-FENWAL, INC.

Robert MacNutt Gollama Kun

RH/es

Memo 5-1-95, Page 1 Attachment: N.R.C - change of R.S.O. Amendment N.C.R. Safety Inspection Amendment Fee



KIDDE-FENWAL, INC. 400 Main Street Ashland, MA 01721

Tel: (508) 881-2000 Fax: (508) 881-6729

INTEROFFICE MEMORANDUM

DATE:	5-1-95
FROM:	Bob MacNutt
TO:	Doug Reardon
SUBJECT:	NRC & LPC Status
REFERENCE	Your memo dated 4-30-95 NRC & LPC status request

NRC Status - New Analog Detector

Kidde-Fenwal submitted on December 12, 1994 to the United States Nuclear Regulatory Commission a "Request for Amendment" to our License No. 20-15285-01. We enclosed the amendment fee of \$600 to cover the fee.

The NRC, Ms Penny Nessen, contacted KF (telephone call) on January 4, 1995 informing us that after reviewing our license and our letters of December 12, and 28, 1994 that there is no requirement for an amendment to our license. Our license 20-15285-01 amendment number 17, allows KF to assemble the Nohmi Bosai, CPD-705X devices at our Ashland, MA site. The NRC has returned our \$600 fee.

Two restrictions cover this agreement --

- 1. The new analog detectors must use the Nohmi Bosai device number CPD-705X.
- The source must be purchased from Amersham mounted into the holder. Kidde-Fenwal can not receive the source at our site by itself.

Last Thursday, April 27, 1995, I contacted Ms. Penny Nessen, NRC, requesting that the NRC submit in writing that our license allows KF to assemble Nohmi Bosai at our Ashland, MA site. I explained the need to document in writing this fact in order to satisfy UL in our approval process of the new CPD 705X devices. Ms. Nessen stated no, that the NRC does not put such information into a letter. We have our license, if UL would like to contact her at the NRC, she would be willing to discuss our license.



UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415

SEP 2 6 1996

Robert A. MacNutt Quality Manager Kidde-Fenwal, Inc. 400 Main Street Ashland MA 01721

Dear Mr. MacNutt:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Sheri a arredondo

Sheri A. Arredondo Division of Nuclear Materials Safety

License No. 20-15285-01 Docket No. 030-08864 Control No. 123417

Enclosure: Amendment No. 18

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U.S. NUCLEAR REGULA	TORY COMMISSIO	N PAGE OF PAGE			
		Amendment No. 18			
ithorizing the licensee to receive lerial for the purpose(s) and at with the regulations of the appears Act of 105.	e, acquire, possess, the place(s) design plicable Part(s). Th	and transfer byproduct, source, and special nucle, ated below; to deliver or transfer such material i is license shall be deemed to contain the condition			
3.	License Number	ice with the letter dated 6, 20-15285-01 is amended in y to read as follows:			
721 4.	Expiration Date	August 31, 2004			
	Docket or Reference No.	030-08864			
and the second	the set of the local sector is an end of the sector of the	 Maximum Amount that Licensee May Possess at Any One Time Under This License 			
(Amersham Co Model AMM-10 Model AMM-10 Nuclear Radi Development B. Sealed sourc (Amersham Co Model AMM-10 AMM-1001H an AMM-1001D or	orporation 001H and 001D or ation Model A-001; es rporation 01, Model d Model Nuclear velopment	 A. Not to exceed 6 microcuries per source and 1.8 millicuries tota B. Not to exceed 2.5 microcuries per source and 800 millicuries tota 			
as defined in 10 Cl ectors	FR 30.4.				
CONDITIC	ONS				
be used only at the chusetts.	licensee's	facilities located at 400 Main			
1 be used by, or und	der the supe	Licensed material shall be used by, or under the supervision of Robert Harris. The Radiation Safety Officer for this license is Robert Harris.			
l be used by, or und fficer for this lice	der the supe ense is Robe	rvision of Robert Harris. rt Harris			
l be used by, or und fficer for this lice l not be used in or	ense is Robe	rt Harris.			
	A as amended, the Energy Rec 32, 33, 34, 35, 36, 39, 40, and thorizing the licensee to receive erial for the purpose(s) and at e with the regulations of the ap treater in effect and to any cond reafter in effect and to any cond a free definition of the ap rest of 1954, as amended, reafter in effect and to any cond a free definition of the ap rest of 1954, as a mended, reafter in effect and to any cond a free definition of the ap model and/or F Form A. Sealed source (Amersham Cond Model AMM-100 Nuclear Radii Development B. Sealed source (Amersham Cond Model AMM-100 Nuclear Radii Development B. Sealed source (Amersham Cond Model AMM-100 AMM-1001D or Radiation De Model A-001) as defined in 10 Clear ectors	July 3, 199 3. License Number its entiret 721 4. Expiration Date 5. Docket or Reference No. 7. Chemical and/or Physical Form A. Sealed sources (Amersham Corporation Model AMM-1001H and Model AMM-1001D or Nuclear Radiation Development Model A-001) B. Sealed sources (Amersham Corporation Model AMM-1001, Model AMM-1001H and Model AMM-1001D or Nuclear Radiation Development Model A-001) as defined in 10 CFR 30.4. ectors CONDITIONS			

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NRC FORM 374A (7-94)	U.S. NUCLEAR REGULATORY COMMIS	SION	PAGE 2 OF 2 PAGES	
	MATERIALS LICENSE	License Number	20-15285-01	
	SUPPLEMENTARY SHEET	Docket or Reference Number 030-08864		
			Amendment No. 17	

authorize commercial distribution of licensed material to persons generally licensed pursuant to 10 CFR Part 31 or equivalent regulations of any Agreement State or to persons exempt from licensing pursuant to 10 CFR 30.18.

- 16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - Application dated November 23, 1993 Α. Β.

Letter dated July 26, 1994

For the U.S. Nuclear Regulatory Commission

Original Signed By: Sheri Ann Arredondo By Nuclear Materials Safety Branch Region I King of Prussia, Pennsylvania 19406

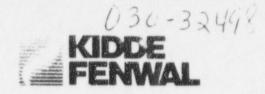
Date

SEP 2 6 1996

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					Page 1 of
LICENSEE			2 REGIONAL OFFICE		
Kidde	- Fenwal, II)C		ON I	
400	MAIN Street			NUCLEAR REGULATORY COMMIS	SION
Ashla	und MASSZCH	usetts 01721	KING	OF PRUSSIA PA 19406-1415	
DOCKET NUM	MBER(S)	4 LICENSE NUMBER	S)	5. DATE OF INSPECTION	
030-	08864	20-1528	5-01		
030-	32 498	20-1528	5-03E	June 8, 199	5
1 Within 2 The in- question 3 During	the scope of this inspection, spector also verified the steps ons on those actions at this till this inspection certain of you	ews with personnel, and no violations were observ i you have taken to corre- me in activities, as described	observations by the ins red of the violations identifie below or attached, were	nspection consisted of selective e bector. The findings as a result of d during the last inspection. We l	t this inspection are a have no further
- NOTIC	E OF VIOLATION, which is re	quired to be posted in ac	cordance with 10 CFR	19.11	
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В.	performed at the proper frequences of			10 CFR 20 203(t of sealed sources se Condition Number were not proper	b).(c).(d).(e) or 34.42 were not
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B.	performed at the proper frequence of	or License Condition f	Number de available. 10 CFR 1	10 CFR 20 203(t of sealed sources se Condition Number were not proper 9.11.	b).(c).(d).(e) or 34.42 were not
B.	performed at the proper frequence of	or License Condition f r posted or otherwise main or License Condition (Number de available. 10 CFR 1 Number	10 CFR 20 203(t 	b).(c).(d).(e) or 34.42 were not
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B. C. D. E. F.	performed at the proper frequence of	or License Condition f r posted or otherwise main or License Condition (Number de available. 10 CFR 1 Number e Inspector will be taken ith the requirements of SIGNATURE NRC	10 CFR 20 203(t of sealed sources se Condition Number were not proper a.11. were not made in to correct the violations identified 10 CFR 2.201. No further respons	b).(c).(d).(e) or 34.42 were not ly maintained.

(FOR LEMS USE) INFORMATION FROM LTS BETWEEN : Program Code: 03255 Status Code: 0 Fee Category: 3H Exp. Date: 20011031 Licensa Fee Management Branch, ARM and Regional Licensing Sections Fee Comments: Decom Fin Assur Regd: N 1975 LICENSE FEE TRANSMITTAL DET REGION 145 A. 24 APPLICATION ATTACHED Applicant/Licensee: Received Date: 1. KIDDE-FENWAL, INC. 961023 3032498 021878 Docket No: Control No.: License No.: Action Type: 20-15265-03E W Amendment 3 2. FEE ATTACHED \$1200.00 00 applied to 96-104, SS+D Amount: Check No.: 033291 3. COMMENTS Copy provided to SSSS, signed Dorle B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / 3H 1. Fee Category and Amount: tel Log Correct Fee Paid. Application may be processed for: 2. Amendment Remitter X Renewa 1 Check No. 3.837 Amount 1, 320 License 3. OTHER Fee Category_3H Ami TYPS of Signed Date Fil. tipme Var meht result m anama 3/ T. Kirkwood. 3 9 will be . Se 9 de.

October 6, 1996



KIDDE-FENWAL, INC 400 MAIN STREET ASHLAND, MA 01721 USA TEL (508) 881-2000 FAX (508) 881-6729

20-15285-03E

Division of Industrial and Medical Nuclear Safety Office of Nuclear Material Safety and Safeguards U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001

Dear Ms. Greene:

Pursuant to 10 CFR part 170.31 Category 9A, Kidde-Fenwal asks that license N.R. 668-D-101-E be amended and enclosed is the \$1200 amendment fee.

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SUMMARY:

Amersham or N.R.D. Inc. are the Americum 241 foil source manufacturers of record. They are the NRC approved suppliers of sealed sources listed on Kidde-Fenwal Inc.'s N.R.C. licenses. Ms. Susan L. Greene October 2, 1996 Page 2 of 2

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If you have any questions, please contact Robert MacNutt, Q.A. Manager at Kidde-Fenwal, Inc. (508) 881-2000, extension 2733.

Sincerely,

KIDDE-FENWAL, INC.

Robert MacNutt Gollama Kan

RH/es

Attachment: Memo 5-1-95, Page 1 N.R.C - change of R.S.O. Amendment N.C.R. Safety Inspection Amendment Fee



KIDDE-FENWAL, INC. 400 Main Street Ashland, MA 01721

Tel: (508) 881-2000 Fax: (508) 881-6729

INTEROFFICE MEMORANDUM

DATE: 5-1-95

FROM: Bob MacNutt

TO: Doug Reardon

SUBJECT: NRC & LPC Status

REFERENCE Your memo dated 4-30-95 NRC & LPC status request

NRC Status - New Analog Detector

Kidde-Fenwal submitted on December 12, 1994 to the United States Nuclear Regulatory Commission a "Request for Amendment" to our License No. 20-15285-01. We enclosed the amendment fee of \$600 to cover the fee.

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- The source must be purchased from Amersham mounted into the holder. Kidde-Fenwal can not receive the source at our site by itself.

Last Thursday, April 27, 1995, I contacted Ms. Penny Nessen, NRC, requesting that the NRC submit in writing that our license allows KF to assemble Nohmi Bosai at our Ashland, MA site. I explained the need to document in writing this fact in order to satisfy UL in our approval process of the new CPD 705X devices. Ms. Nessen stated no, that the NRC does not put such information into a letter. We have our license, if UL would like to contact her at the NRC, she would be willing to discuss our license.



UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406 1415

SEP 2 6 1996

Robert A. MacNutt Quality Manager Kidde-Fenwal, Inc. 400 Main Street Ashland, MA 01721

Dear Mr. MacNutt:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Sheri a arredond.

Sheri A. Arredondo Division of Nuclear Materials Safety

License No. 20-15285-01 Docket No. 030-08864 Control No. 123417

Enclosure: Amendment No. 18

NRC FC (7.94)	DRM 374			an a
			ULATORY COMMISSION	PAGE OF PAGE
persons specified	icensee, a license is hereby issued a designated below; to use such ma authorized to receive it in accordan	4, as amended, the Energy 1, 32, 33, 34, 35, 36, 39, 40, uthorizing the licensee to re iterial for the purpose(s) an ice with the regulations of th	ceive, acquire, possess, and d at the place(s) designate e applicable Part(s). This l	Amendment No. 18 74 (Public Law 93-438), and Title 10, Code statements and representations heretofore ma d transfer byproduct, source, and special nucle d below; to deliver or transfer such material icense shall be deemed to contain the conditio applicable rules, regulations, and orders of the w.
2. 400	Licensee de-Fenwal, Incorporate Main Street	d	July 3, 1996 3. License Number	e with the letter dated 20-15285-01 is amended in to read as follows:
Ash	Ashland, Massachusetts 01721	1721	and the second	August 31, 2004
6.0			5. Docket or Reference No. 0	030-08864
Specia A. Ame	Authorized use	Model AMM Model AMM Nuclear F Developme B. Sealed so (Amershan Model AMM AMM-1001F AMM-10010	Durces n Corporation M-1001H and M-1001D or Radiation ent Model A-001) Durces n Corporation M-1001, Model H and Model D or Nuclear n Development	 8. Maximum Amount that Licensee May Possess at Any One Time Under This License A. Not to exceed 6 microcuries per source and 1.8 millicuries tota B. Not to exceed 2.5 microcuries per source and 800 millicuries tota
D. r	Research and development abrication of smoke de Licensed material may	CONC	DITIONS	acilities located at 400 Main
11.	ourcee, Ashrano, Has:	sachusetts.		vision of Robert Harris.
12.	The Radiation Safety			
13.	Licensed material sha	all not be used in	n or on human bei	ngs.
14.				ial in accordance with the

• NRC FORM 374A	U.S. NUCLEAR REGULATORY C	DMMISSION PAGE	2	
*.	MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 20-1 Docket or Reference Number	2 OF 2 5285-01 08864	PAGES
15 Thic 1	Acanas das	the second se	dment No. 17	
15. This 1	icense does not authorize commer	the second se	dment No. 17	

ommercial distribution of licensed material to persons generally licensed pursuant to 10 CFR Part 31 or equivalent regulations of any Agreement State or to persons exempt from licensing pursuant to 10 CFR 30.18.

- 16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - Application dated November 23, 1993 A. 8.

Letter dated July 26, 1994

For the U.S. Nuclear Regulatory Commission

Original Signed By: Sheri Ann Arredondo By Nuclear Materials Safety Branch Region I King of Prussia, Pennsylvania 19406

Date

SEP 2 6 1996

NRC FORM 591 DURT		U.S. NUCLEAR REGULATORY COMMISSIO
0 CFR 2 201	SAFETY	INSPECTION
		Page 1 of
LICENSEE		2 REGIONAL OFFICE
Kidda-Ferwal,	Inc	REGION I
400 MAIN Stre	et	U S NUCLEAR REGULATORY COMMISSION
Ashland MASSZ		475 ALLENDALE ROAD KING OF PRUSSIA PA 19406-1415
DOCKET NUMBER(S)	4 LICENSE NUMBER	
030-08864	20-1528	o one or morection
		June 8, 1995
030-32498	20-1528	15-03E
1. Within the scope of this inspec 2. The inspector also verified the questions on those actions at t	tion, no violations were obser steps you have taken to corre his time.	ect the violations identified during the last inspection. We have no further
A		was not properly posted to
indicate the presence of	8	
B		of sealed sources were not
performed at the proper	frequencies. 10 CFR	or License Condition Number
		Number were not properly maintained.
D. Documents were not pro	operly posted or otherwise ma	ade available. 10 CFR 19.11.
E. Reports or notification of	it	were not made in accordance with
		Number
10 0111		
F		
F		
F	actions described by me to th	he Inspector will be taken to correct the violations identified in the items checke with the requirements of 10 CFR 2.201. No further response will be submitted
F	actions described by me to th	he Inspector will be taken to correct the violations identified in the items checke with the requirements of 10 CFR 2.201. No further response will be submitted
F I hereby state that, within 30 days, the a above. This statement of corrective act unless required by the NRC.	actions described by me to th ions is made in accordance v	The Inspector will be taken to correct the violations identified in the items, check

	ORM 5	77	anna ar fantan sa na ange	U.S. NUC	LEAR REGULA	TORY COMMIS	SSION			
LICENSE FEE REQUIREMENTS						LICENSE FEE AND DEBT COLLECTION BRAN DIVISION OF ACCOUNTING AND FINANCE OFFICE OF THE CONTROLLER U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001			G AND FINANCE LLER DRY COMMISSION	
								TYPE OF A	CTION	
							-	NEW LICENSE		
	KIDDE		IC.					RENEWAL OF LICENS	Ε	
KIDDE-FENWAL, INC. ATTN: Mr. Robert MacNutt QA Manager							X	AMENDMENT TO LICE	ENSE	
							RE	QUESTED DATE		
400 Main Steet						10-6-96				
	Ashlar	nd, MA 01721					LIC	ENSE NUMBER		
								20-15285	-03E	
							CO	NTROL NUMBER		
I. APPLICATION FEE DUE								02187	8	
lourn	equee!		PLICATION FEE		in the			I. FEE NOT REQUIRED		
catego	ed Fed	noted below in a eral Register no	accordance with tice. Payment o enewal, or amen	Section 170	31 of the		ed is Check . The fee is	No. which not required because:	accompanied your	
FEE	APPLICATION RENEWAL AMENDME			MENDMENT		We receive No.	eceived your Check in paymer			
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9A	\$	1,200.00	5	\$						
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	12		\$	\$						
	\$		\$	\$, Control No.	······································	
	\$		\$	\$			Your reque	st was combined, prior to	review with your	
	\$		\$	\$				request, Control	iorion, min your	
	\$		5 \$	\$				No.		
								III. CHECK RETURNED		
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PAYMENT RECEIVED			\$	1,200.00	an and the second secon	bank for:				
		AMOUN	IT DUE	\$	1,000.00					
		quest was rece	ived without the	prescribed a	pplication		INSUFFICI	ENT FUNDS		
fee.							ACCOUNT	CLOSED		
	We rec No.	eived your Che	ck	in the a	mount of		OTHER			
	\$. Payment o	of the addition	nal fee noted	however				
above is required. Your request will increase the scope of your license program Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).						MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE				
					fee(s) noted	TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER. IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE				
	Your lic	ense expired p	rior to the receipt	of your app	lication for	License		, Amendment		
	renewa	I. Therefore, yo	ur request is sub Section 170.31	ject to the ar	oplication fee(s)	No.		No.	, issued on	
					1-1	collecte		s issued without the requir required is noted in Sectio		
	ESS LI	Y COMMISSIO STED AT THE REPLY FROM Y	EE(S) TO THE UN AND MAIL TH TOP OF THIS FO OU WITHIN 30 WE SHALL ASS	DRM. IF WE	T TO THE DO NOT DAYS FROM	form Form Form	ope of your li t is subject to Refer to Sect	icensed program was incre- the application fee(s) not tion 170.31 and Footnote	eased. Therefore, your led in Section 1 of this I(d)(2).	
ACTIC	TO PUI DN.	RSUE YOUR A	PPLICATION AN	ID WILL VO	ID THIS	without form.		ency of your request, the li of the prescribed fee noted	in Section 1 of this	
IGNA	TURE	LICENSE FEE AM	NALYST	LFDCB	LFDCB	Distribution:		3	CATE	
	Sa	ndra Kimberle	y	sk 2/3/97		601 DAF 2.2.7) ec: 5. Grune Ho 2/3/97				

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This form was electronically produced by Elite Federal Forms, Inc.

NRG F (1-95)	ORM 57	77		U.S. NUCLEAR REGULA	TORY COMMISSION	MMISSION ATTN: Sarkrakimberley T- LICENSE FEE AND DEBT COLLECTION E			
		LIC	CENSE FEE R	EQUIREMENTS		DIVISION OF AC OFFICE OF THE U.S. NUCLEAR I	DELISE FEE AND DEBT COLLECTION BRANC DIVISION OF ACCOUNTING AND FINANCE DFFICE OF THE CONTROLLER J.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001		
1997 FEB 20 AM 9: 5					7				
						Г	YPE OF ACTION		
						NEW LICEN	ISE		
						RENEWAL	OF LICENSE		
	KIDDE	FENWAL, IN	NC.						
	ATTN:	Mr. Robert M				REQUESTED DA	NT TO LICENSE		
QA Manager 400 Main Steet						ALGOESTED DA			
Ashland, MA 01721						LICENSE NUMBE	10-6-96		
							20-15285-03E		
						CONTROL NUMB			
						021878			
		I. AP	PLICATION FEE D	UE	II. FEE NOT REQUIRED				
Your re	equest for	or a licensing a	action is subject to the	he fee(s) in the	Enclosed is (Chaok No.			
enclos	ory(ies) noted below in accordance with Section 170.31 of the sed Federal Register notice. Payment of the fee is required prior to suance of the license, renewal, or amendment.			request. The	eek No. which accompanied you ee is not required because: ceived your Check				
FEE	APP	PLICATION	RENEWAL	AMENDMENT	No.		in payment of		
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on	\$	1,200.00	5	5	The	Licensing staff has int	formed us that your request is to b		
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		FEE(s)	DUE	\$ 2,200.00	[]	III. CHECK RE	TURNED		
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1	Your rec	quest was rece	ived without the pre	scribed application	INSU	JFFICIENT FUNDS			
	fee.				ACC	OUNT CLOSED			
	We received your Check in the amount of				OTH	IER			
	\$		Payment of th	ne additional fes noted					
		required.			MAIL THE REPLA	CEMENT CHECK TO	THE ADDRESS LISTED AT THE		
Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).					TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.				
	Your lice	ense expired p	rior to the receipt of	your application for	IV. LICE		OUT THE REQUIRED FEE endment		
Lund 1	renewal.	. Therefore, vo	ur request is subject Section 170.31 and	t to the application fee(s)	No.	No.	, issued on		
	noted at		Sector 170.51 and	r ooulote i(a).		he fee required is note			
MAKE PAYMENT OF THE FEE(S) TO THE U.S. NJCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.					 form: Scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section 1 of this form. Refer to Section 170.31 and Footnote 1(d)(2). Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section 1 of this form. 				
	San	dra Kimberle	v Hande	a har lot	(LEAVE BLANK)		43/97		



UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

October 31, 1996

ASSIGNMENT NUMBER: 96-104

Mr. Robert MacNutt Kidde Fenwal, Inc. 400 Main Street Ashland, MA 01721

SUBJECT: ACKNOWLEDGEMENT OF REQUEST FOR SAFETY EVALUATION

Dear Mr. MacNutt:

This letter acknowledges the receipt of your October 6, 1996, application that requested a safety evaluation and registration of the Model CPD 705X Smoke Detective. We have performed a cursory review of your application and determined that enough information has been provided to allow a technical reviewer to initiate the evaluation process. Applications are assigned to technical reviewers on a first-in basis. Therefore, your application will be assigned in turn. Please note that the technical reviewer may contact you to request information that was omitted from your application or to obtain clarification of technical issues concerning your application. If you have any questions concerning the status of your application, please contact me at (301) 415-7857. Please reference the assignment number listed above in your questions or correspondence.

Please be aware that your request may be subject to the NRC's application fees in accordance with 10 CFR Part 170. Therefore, a copy of your application has been forwarded to the License Fee and Debt Collection Branch for approval of the fee category and amount. If you have any questions concerning the fees associated with your application, please contact the License Fee and Debt Collection Branch at (301) 415-7554.

Sincerely,

mperi

KimBerly Randalf, Registration Assistant Sealed Source Safety Section Medical, Academic, and Commercial Use Safety Branch Division of Industrial and Medical Nuclear Safety Office of Nuclear Material Safety and Safeguards