

**From:** <William.Sawyer@kidde-fenwal.com>  
**To:** <ask@nrc.gov>  
**Date:** 3/15/02 1:47PM  
**Subject:** Registration Renewal for License No. 20-15285-03E

This email is in response to your questions from your e-mail dated Feb. 28, 2002. After reviewing several documents and blue prints on these smoke detectors I found that I have made some mistakes on the application dated 8-22-01.

The models CPD702X and CPD 704X are in fact obsolete. Kidde-Fenwal no longer manufactures or distributes these models of detectors.

The model CPD 7051 is a dual chamber type detector the contains only 1 source per detector. These models are manufactured in Japan, and are distributed by Kidde-Fenwal. They are manufactured with sources that are purchased from Amersham models AM-1001 and are 0.7 microcuries each.

The model CPD 7052 are also dual chamber smoke detectors that contain only 1 source each, but are assembled here in Ashland. The sources for these are purchased from NRD model A-001 and are also 0.7 microcuries each. This may require us to revise our registration cert.# NR-0668-D-101-E. Please advise on this if you would.

There are no devices either purchased, distributed or otherwise sold by Kidde-Fenwal that contain sources that are 0.6 microcuries. There are not any devices purchased, distributed, or otherwise sold or distributed by Kidde-Fenwal that have more than 1 source per smoke detector.

Please note that I will follow up this e-mail with a hard copy of this letter and the supporting documents.

Also I have attached a corrected copy of the attachment to the original application dated 8-22-01.

(See attached file: Attachment to License Renewal Application rev1.doc)

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Attachment to License Renewal Application (License No. 20-15285-03E)

Item # 5 Description of Radioactive material

Kidde-Fenwal uses Americium 241 in its assemblies of Smoke Detectors. They are foil type sources purchased from Nuclear Radiation Development (model A-001), and/or Amersham Corp. (models AMM-1001, AMM-1001H, and AMM-1001D). Each source does not exceed 0.7 microcuries per source and 1.8 millicuries total.

There are other models for which other thresholds apply. Amersham Corps. Models AMM-1001 are not to exceed 20.7 microcuries each and 1.8 millicuries total.

Item # 6 Purpose for which material will be used.

These sources are assembled into ionization type smoke detectors designed to detect invisible and visible products of combustion. The detectors are designed for open area protection and duct housing applications. The detectors are primarily commercial and industrial, but may infrequently be used in residential installations.

Item # 7 Individual responsible for Radiation Safety Program and their training experience.

William E. Sawyer a 20 year veteran at Kidde-Fenwal is the Radiation Safety Officer. Mr. Sawyer has attended a 40 hour training course at the Harvard School of Public Health in August of 1998. He also attended a 40 hour course at Howard Levingston and Associates in June of 1999. Mr. Sawyer performs all of the tasks that are required by State and Federal regulations, and strictly follows all policies and procedures as outlined in our Radiation Safety Policy (RS-1).

Item # 8 Training for Individuals Working in or Frequenting Restricted Areas

Personnel will receive annual training with regards to general radiation safety protection including but not limited to the biological effects of radiation, basic principles of radiation safety, the importance of good personal hygiene, film badges, and personal protective equipment.

Item # 9 Facilities and Equipment

Radioactive materials are used and processed in a controlled assembly area. Only authorized personnel have access to this restricted area. Source materials when not in use are stored inside locked lead lined cabinets. Employees are trained on the proper handling of source material, and are instructed as to the maximum amount of source material to be used at one time. The restricted areas are equipped with all of the appropriate signage, and under no circumstances are employees allowed to enter the restricted area without the proper safety devices and monitoring equipment.

Item # 10 Radiation Safety Program

Kidde-Fenwal has a strict Radiation Safety Program/policy (document number RS-1) and strictly adheres to those guidelines set forth in that policy. All procedures and policies are in accordance with 10 CFR and with the State of Massachusetts Regulations 105 CMR. The Radiation Safety Committee reviews the policies and procedures defined in RS-1 at least annually. The policy addresses organizational responsibilities, employee qualifications, storage of radioactive materials, procurement, maximum permissible exposures, waste disposal, RSO responsibilities, inventory control, survey procedures, training requirements, notification of incidents, and an emergency telephone listing.

Item # 11 Waste Management

Waste radioactive source materials are stored in lead cans, which are then stored inside a lead-lined cabinet. These are accumulated for an indefinite period of time until a significant quantity is accumulated. The material is then disposed of via a licensed disposal contractor. During the accumulation time accurate and updated inventory records are kept indicating the exact amount of waste material is in storage. These records are readily available in the case of an emergency.

**Mail Envelope Properties**

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**From:** <William.Sawyer@kidde-fenwal.com>  
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**Recipients**

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ASK (Anthony Kirkwood)

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**Options**

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