

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE
(AMENDED IN ITS ENTIRETY)

NO.: NR-0668-D-101-E DATE: April 27, 2005 PAGE 1 OF 3

DEVICE TYPE: Smoke Detector

MODEL: CPD-7051, CPD-7052, CPD-7054, and CPD-7054D

DISTRIBUTOR: Kidde Fenwal
400 Main Street
Ashland, MA 01721

MANUFACTURERS:

For Model CPD-7051,
CPD-7054, and CPD-7054D
Nohmi Bosai, Ltd.
7-3 Kudan Minami, 4-Chome
Chiyoda-bu Tokyo 102, Japan

For Model CPD-7052:
Kidde Fenwal
400 Main Street
Ashland, MA 01721

SEALED SOURCE AEA Technology plc AMM.1001H
MODEL DESIGNATION: NRD A-001 (Model CPD 7052 only)

<u>ISOTOPE:</u>	<u>MAXIMUM ACTIVITY</u>
Americium-241	0.7 microcurie (25.9 kBq) (NRD A-001) 0.8 microcurie (29.6 kBq) (AEA AMM.1001H)

LEAK TEST FREQUENCY: Not required

PRINCIPAL USE: (P) Ion Chamber Smoke Detector

CUSTOM DEVICE: _____ YES X NO

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DESCRIPTION:

The Models CPD-7051, **CPD-7054**, and **CPD-7054D** are dual chamber type smoke detectors that contain one AEA AMM.1001H source of 0.8 microcurie (29.6 kBq) per detector. These Models are manufactured in Japan, and are distributed by Kidde Fenwal.

The Model CPD-7052 is also a dual chamber type smoke detector that contains one NRD A-001 source of 0.7 microcurie (25.4 kBq) or one AEA AMM.1001H source of 0.8 microcurie (29.6 kBq) per detector. These CPD-7052 Models are manufactured in Ashland, MA.

The source assembly is the source foil mounted to a 300 Series stainless steel plate and is champed by a 300 Series stainless steel source cover which has three integrally formed tabs which are mechanically folded over the back of the source plate and source cover. A threaded stud which is a part of and located beneath the source plate is then passed through the polycarbonate support plate and the printed circuit board and secured with a washer - lock nut thus forming secondary and tertiary protection above the source assembly.

REFERENCES:

The following supporting documents for the Models CPD-7051, **CPD-7052**, **CPD-7054**, and **CPD-7054D** smoke detectors are hereby incorporated by reference and are made a part of this registry document.

- This registry sheet was originally compiled from information contained in License No. 20-15285-02E
- Kidde Fenwal, Inc.' letter dated November 27, 1991, with enclosures thereto.
- Kidde Fenwal, Inc.' letter dated December 13, 1991.
- Kidde Fenwal, Inc.' letter dated April 1, 1992, with enclosures thereto.

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REFERENCES (Cont.):

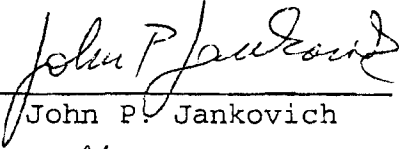
- Kidde Fenwal, Inc.' letters dated March 23, 2002, and May 13, 2002, with enclosures thereto.
- Kidde Fenwal, Inc.' letter dated July 24, 2003, with enclosures thereto.
- Kidde Fenwal, Inc.' letter dated September 17, 2004, with enclosures thereto, and emails dated November 22, 2004, April 7, 2005, April 11, 2005, and April 12, 2005.

ISSUING AGENCY:

U.S. Nuclear Regulatory Commission

Date: April 27, 2005

Reviewer:


John P. Jankovich

Date: April 27, 2005

Concurrence:


Ujagar S. Bhachu