

October 27, 1999

Mr. James W. Mottorn II  
Detection Systems, Inc.  
130 Perinton Parkway  
Fairport, NY 14450

Dear Mr. Mottorn:

Based on your e-mail dated October 27, 1999, we hereby correct the registration certificate NR-0206-D-101-E, dated October 20, 1999, for your Model DS260 smoke detectors (the corrected page is enclosed). We understand that you are waiting for UL approval for the intrinsically safe smoke detector (ISSD) subassemblies #3 and #4.

If you have any questions, please contact me at (301) 415-5787 or Dr. John Jankovich at (301) 415-7904.

Sincerely,  
*/s/*  
Seung J. Lee, Mechanical Engineer  
Materials Safety and Inspection Branch  
Division of Industrial and  
Medical Nuclear Safety  
Office of Nuclear Material Safety  
and Safeguards

Enclosure: As stated

cc w/encl: SKimberley, LFDCB

Distribution:

MSIB r/f      IMNS r/f      SSD-99-52      *JK* NE01 SSD File # NR-0206-D-101-E  
Akirkwood      Rshane

DOCUMENT NAME: H:\SJL\NR206101.cm1

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NAME	SLee <i>sil</i>			JJankovich <i>JK</i>					
DATE	10/27/99			10/27/99					

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PDR RC \* SSD

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

NO.: NR-0206-D-101-E

DATE: October 20, 1999 PAGE 1 OF 3

DEVICE TYPE: Smoke Detector

MODEL: DS260

MANUFACTURER/DISTRIBUTOR: Detection Systems, Inc.  
130 Perinton Parkway  
Fairport, NY 14450

SEALED SOURCE MODEL DESIGNATION: NRD A-001

ISOTOPE:

Americium-241

MAXIMUM ACTIVITY:

0.9 microcurie (33.3 kBq)

LEAK TEST FREQUENCY:

Not required

PRINCIPAL USE:

(P) Ion Generator, Smoke Detectors

CUSTOM DEVICE:

\_\_\_\_\_ YES \_\_\_\_\_ X \_\_\_\_\_ NO

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES  
SAFETY EVALUATION OF DEVICE  
(AMENDED IN ITS ENTIRETY)  
(CORRECTED PAGE 1 - OCTOBER 27, 1999)

NO.: NR-0206-D-101-E      DATE: October 20, 1999      PAGE 2 OF 3

DEVICE TYPE:      Smoke Detector

DESCRIPTION:

The model DS260 smoke detector contains a single-sided ion chamber. The ion chamber incorporates the circuit board. The ion chamber/circuit board is mounted in a plastic outer cover with a maximum opening of approximately 0.18" (4.57 mm). There is a metal insect screen mounted inside the top cover that covers the top electrode. The outer cover is approximately 4" (10.16 cm) in diameter and 1.5" (3.81 cm) in height. The detector will be labeled with the word "CONTAINS RADIOACTIVE MATERIAL", trefoil symbol, isotope, activity, and name and NRC license number of the distributor. This device may be distributed under different marketing numbers corresponding to different covers and electronics.

**The intrinsically safe smoke detector (ISSD) subassemblies #3 and #4 replace #1 and #2, respectively.**

The model DS260 smoke detector was previously approved with a different cover and source holder design. Detection Systems states that the original model was never produced and distributed.

REFERENCES:

The following supporting documents for the Model DS260 smoke detectors are hereby incorporated by reference and are made a part of this registry document.

- Detection Systems application dated February 12, 1993, with enclosure thereto.
- Detection Systems letters and facsimiles dated January 31, 1997, April 28, 1997, November 8, 1996, May 29, 1996, May 7, 1996, April 23, 1996, December 14, 1995, August 24, 1993, and July 8, 1993, with enclosure thereto.

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

NO.: NR-0206-D-101-E

DATE: October 20, 1999 PAGE 3 OF 3

DEVICE TYPE: Smoke Detector

REFERENCES (Cont'd):

- Detection Systems letters dated August 24, 1999 and September 24, 1999, with enclosure thereto.
- Detection Systems e-mails dated September 23, 1999 (2 mails).

ISSUING AGENCY:

U.S. Nuclear Regulatory Commission

Date: October 20, 1999

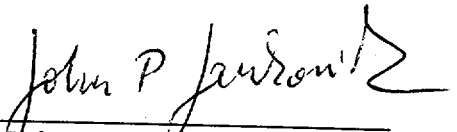
Reviewer:



Seung J. Lee

Date: October 20, 1999

Concurrence:



John P. Jankovich

**From:** <jmottorn@detectionsys.com>  
**To:** TWFN\_DO.twf4\_po(SJL)  
**Date:** Wed, Oct 27, 1999 2:38 PM  
**Subject:** Re:Registration Certificate Correction

Hi Seung,

We have to continue manufacturing #1 and #2 until we receive UL approval on #3 and #4. We will not receive UL approval for at least a couple months. We plan on selling and Manufacturing #1 and #2 until this approval is done. If you would like I could inform you and keep you posted on when we are going to start manufacturing and selling #3 and #4. Please let me know what I should do.

Thanks,  
Jim M.

\_\_\_\_\_  
Reply Separator

**Subject:** Registration Certificate Correction  
**Author:** Seung Lee <SJL@nrc.gov>  
**Date:** 10/27/99 1:23 PM

Good afternoon, Jim!

I talked to the material license staff and found that you can distribute the previously approved ISSD #1 and #2. However, the registration certificate should be corrected to reflect the distribution of #1 and #2. Would you please let me know how many of #1 and #2 are available in your stock and how long you would distribute them? Please confirm that #1 and #2 are not manufactured any more as of today. I will correct registration certificate as soon as I get your response. If you have any questions, please let me know.

Thank you very much and have a nice day.

Seung

Received: from igate.nrc.gov ([148.184.176.31])  
by smtp (GroupWise SMTP/MIME daemon 4.1 v3)  
; Wed, 27 Oct 99 13:39:49 EDT

Received: from nrc.gov  
by smtp-gateway ESMTPOE id NAA26516  
for <SJL@nrc.gov>; Wed, 27 Oct 1999 13:40:02 -0400 (EDT)

From: jmottorn@detectionsys.com

Received: from [208.144.71.254] ([208.144.71.254])  
by inbox.netacc.net (Pro-8.9.3/Pro-8.9.3) with SMTP id NAA02968  
for <SJL@nrc.gov>; Wed, 27 Oct 1999 13:39:19 -0400 (EDT)

Received: from smtpmail.detectionsys.com by [208.144.71.254]  
via smtpd (for mail.netacc.net [206.28.142.35]) with SMTP; 27 Oct 1999 17:24:04 UT

Received: from ccMail by smtpmail.detectionsys.com (ccMail Link to SMTP R6.00.02)  
id AA941045916; Wed, 27 Oct 99 13:38:47 -0500

Message-Id: <9910279410.AA941045916@smtpmail.detectionsys.com>

X-Mailer: ccMail Link to SMTP R6.00.02

Date: Wed, 27 Oct 99 13:38:34 -0500

To: <SJL@nrc.gov>

Subject: Re:Registration Certificate Correction

MIME-Version: 1.0

Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

October 27, 1999

Mr. James W. Mottorn II  
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Sincerely,

*SL*

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Division of Industrial and  
Medical Nuclear Safety  
Office of Nuclear Material Safety  
and Safeguards

Enclosure: As stated

cc w/encl: SKimberley, LFDCB

Distribution:

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DATE	10/27/99		10/27/99						

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

NO.: NR-0206-D-101-E

DATE: October 20, 1999 PAGE 1 OF 3

DEVICE TYPE: Smoke Detector

MODEL: DS260

MANUFACTURER/DISTRIBUTOR: Detection Systems, Inc.  
130 Perinton Parkway  
Fairport, NY 14450

SEALED SOURCE MODEL DESIGNATION: NRD A-001

ISOTOPE:

Americium-241

MAXIMUM ACTIVITY:

0.9 microcurie (33.3 kBq)

LEAK TEST FREQUENCY:

Not required

PRINCIPAL USE:

(P) Ion Generator, Smoke Detectors

CUSTOM DEVICE:

\_\_\_\_\_ YES      X   \_\_\_\_\_ NO



REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES  
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(CORRECTED PAGE 1 - OCTOBER 27, 1999)

NO.: NR-0206-D-101-E      DATE: October 20, 1999      PAGE 2 OF 3

DEVICE TYPE:      Smoke Detector

DESCRIPTION:

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**The intrinsically safe smoke detector (ISSD) subassemblies #3 and #4 replace #1 and #2, respectively.**

The model DS260 smoke detector was previously approved with a different cover and source holder design. Detection Systems states that the original model was never produced and distributed.

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ISSUING AGENCY:

U.S. Nuclear Regulatory Commission


Date: October 20, 1999

Reviewer:

  
Seung J. Lee

Date: October 20, 1999

Concurrence:

  
John P. Jankovich

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MAXIMUM ACTIVITY:

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LEAK TEST FREQUENCY:

Not required

PRINCIPAL USE:

(P) Ion Generator, Smoke Detectors

CUSTOM DEVICE:

\_\_\_\_\_ YES \_\_\_\_\_ X \_\_\_\_\_ NO

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U.S. Nuclear Regulatory Commission

Date: October 20, 1999

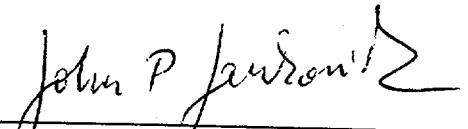
Reviewer:



Seung J. Lee

Date: October 20, 1999

Concurrence:



John P. Jankovich