



Grinnell®

FIRE PROTECTION SYSTEMS COMPANY

835 Sharon Drive
Westlake, Ohio 44145

A **tyco** INTERNATIONAL LTD. COMPANY

October 16, 1998

Assignment 98-81

S. Lee
United States Nuclear Regulatory Commission
Washington D.C.

Mail Stop T-8F5

Dear Mr. Lee,

I have enclosed the information you requested per the fax you sent to me on 10/16/98. I hope that all the items of concern have been addressed. As a recap, here is a list of the enclosed material along with a brief description if needed.

1. Copies of Section Two as you requested.
2. An updated "Summary Data" sheet. Hopefully, this clarifies the following items:
 - a) Amersham model DSC.A2 which is the model produced by Amersham as a sealed source.
 - b) The manufacturer is Tyco Electronics Product Group. This is the same legal entity as Thorn Security Limited. They do business as Tyco Electronic Products Group.
 - c) The maximum activity of the radionuclide is 0.9 uCi
 - d) Clarification of AMM 1001H as the model provided by Amersham.
3. Legible copies of Attachment E5. This includes two drawings, 515456 and 515462.
4. New copies of Attachment E3, drawings and bills of material with the "confidential" block removed.
5. Updated copies of the Grinnell "Receipt and Shipping of ION Detectors. The updated version includes the following items as requested.
 - a) Reference to sampling plan as recommended in RG 6.9.
 - b) Details of incoming inspection requirements.
 - c) The leak test threshold of 0.005 microcurie.
 - d) Disposition of failed lots as 100% rejected and returned to supplier.
 - e) A flowchart that details the processing of Ion Smoke Detectors
6. A copy of the Grinnell Fire Protection Quality Assurance Manual. If you need assistance applying this document to your checklist, please feel free to give me a call. In reviewing the

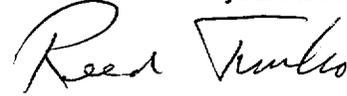
checklist, I have noticed some areas that at first glance may not look to be in compliance, however, are in fact covered but the manner in which we have implemented the quality program makes this difficult to ascertain. For instance, item number 3 requires that the manual be approved and signed by an official from each department. Our entire system is electronic, documents are "approved and signed" through the movement of documents from the appropriate managers.

7. Updated application to amend license 34-23772-02E amendment no 02. For consistency purposes, I made corrections so that the discrepancies listed in number 5 above are addressed.

I have made a request from Tyco Electronic Products Group to forward all pertinent Quality Assurance Documents. Upon receipt, I will forward them to your attention.

Please feel free to call if you need further assistance

Thank You for your Assistance

A handwritten signature in cursive script that reads "Reed Timko". The signature is written in black ink and is positioned above the printed name.

Reed Timko



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SUMMARY DATA

Date: July 20, 1998

Applicant: Grinnell Fire Protection Systems Co.
835 Sharon Drive
Westlake, Ohio 44145

Contact: Reed Timko
Tel: 1-440-871-9900 ext 5122
Fax 1-440-871-1870

Device type: Smoke detectors

Model Lo-Pro Series 612I and 912I

Manufacturer: Tyco Electronic Products Group
160 Billet Road
Walthamstow London
E17 5DR
United Kingdom

Radioactive Source: Model DSC.A2
Manufactured by:

Amersham International plc
White Lion Road
Amersham Buckinghamshire
HP9 9LL
United Kingdom

NRC Registry AMM 1001H No. NR136S174U

Radionuclides Americium 241
33.3 kBq (0.9 uCi)

Revised 10/16/98

Leak Test Frequency Contains less than 10 microcuries of alpha emitter, leak test not required.

Principle Use Code P (ion generators, smoke detectors)

General: The Lo-Pro series detectors are smoke detectors using an ionisation chamber sensing element and are intended for use in commercial and industrial fire detection systems.

All detectors in the Lo-Pro series use the same mechanical construction, and different performance characteristics are obtained by variations of the electronic circuitry.

External radiation Levels Details of levels associated with the chamber assembly are provided in the technical data describing the Amersham DSC.A2

Maintenance and Service The recommended maintenance for the Lo-Pro series is to remove loose dust using the suction of a vacuum cleaner. Users and maintenance Personnel are instructed not to dismantle the detectors for cleaning.

Prototype Testing Prototype testing of the source performed as part of registry.

Prototype testing of Lo-Pro detectors performed by the Loss Prevention Certification Board in the United Kingdom.

Quality Assurance: The detectors are designed, manufactured and distributed by companies certified to ISO 9001: 1994 standards. Reference Certificate Numbers FM967 and A5562.



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Amersham Buckinghamshire
HP9 9LL
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