



Grinnell®

FIRE PROTECTION SYSTEMS COMPANY

A Division of the Grinnell Corporation
835 Sharon Drive
Westlake, Ohio 44145
Telephone (440) 871-9900

Administration/Finance
Customer Service
Purchasing
Research & Development
Training

Facsimile (440) 871-2301
Facsimile (440) 871-9934
Facsimile (440) 871-1870
Facsimile (440) 871-9697
Facsimile (440) 899-9489

Assignment number: 98-81

10/14/98

Reed Timko
Grinnell Fire Protection Systems Co.
Westlake, Ohio 44145

Steven L. Baggett, Deputy Branch Chief
Materials Safety Branch
Division of Industrial and Medical Nuclear Safety
Office of Nuclear Material Safety and Safeguards

Dear Mr. Baggett,

I recently spoke with San Lee from your office concerning the device evaluation for our LoPro series of smoke detectors. At the time, he indicated that a review was not possible for another six to nine months. I acknowledge that my application may not have been submitted in the most timely manner considering that we want to release this product to our customers on November 1, 1998, however, I never would have expected this process to take almost a year.

I am writing to you to see if there is anything I can do to accelerate this process. If possible, I can arrange to have myself and our design engineer come to your offices to review any concerns the NRC may have.

I have heard through my attorney in Washington that you have a considerable back log. If accelerating the review is not possible, would you consider granting us a "limited conditional" license to distribute the detectors based upon the following facts;

- 1.) The sealed source has been registered with the NRC since 1979. (NR136S174U) by Amersham.
- 2.) The sealed source used in the LoPro is the same type used in the previous detectors currently listed on our license with the advantage that the LoPro utilizes a completely assembled source supplied by Amersham, whereas, the previous detectors utilized a two piece source from Amersham with final assembly performed by Tyco Electronic Products Group.

3.) The detectors were released by Tyco Electronic Products Group in the United Kingdom in June of 1995. There is an installed base of approximately 100,000 detectors across Europe and in the Far East.
No incidence of radiation problems have been experienced.

4.) The detectors have been evaluated by Underwriters Laboratories in the United States and the Loss Prevention Certification Board in the United Kingdom. These tests included vibration, shock and impact testing.

In order to satisfy the NRC, we would consider increasing the number of wipe tests performed on the detectors and our present system for inventory control includes full traceability for all detectors shipped in the unlikely event we would need to find all of the installed units.

In a correspondence date April 7th 1992 between Susan Greene and my predecessor, Mr Martini, the NRC granted us a "limited conditional" license to ship a specified quantity of Nittan detectors due to the time required to receive the quality procedures from the manufacturer concerning 100% wipe testing. I realize that the circumstances are different, however, for the reasons cited above, I'm hoping that you agree with me that the risks are minimal.

Thankyou for your time

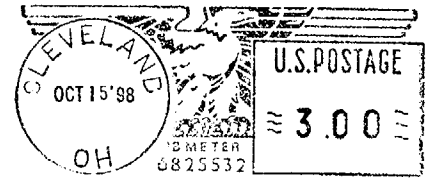
Reed Timko



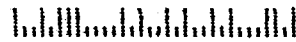
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FIRE PROTECTION SYSTEMS COMPANY

835 Sharon Drive
Westlake, OH 44145



U.S. Nuclear Regulatory Commission
Steven L. Baggett
Materials Safety Branch
Washington DC 20555-001



19D
19C
19B
19A
11/11/98

KR

REQUEST FOR A SEALED SOURCE OR DEVICE EVALUATION

INSTRUCTIONS: Send this request AND a copy of all related letters/applications and drawings to: The Sealed Source Safety Section, ATTN: Chief, OWFN Mail Stop 6 H3. Change the License Tracking System milestone to 19 and assign to reviewer code I-5.

NOTE: Retain a copy of this request with the application and background files.

REQUESTER <i>Grinnell Fire Protec Systems</i>		REGION/LOCATION: <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> V <input type="checkbox"/> HQ <input type="checkbox"/> LFDCB			
TELEPHONE NUMBER	DATE	TYPE OF ACTION REQUESTED (Check as appropriate)			
APPLICANT'S NAME <i>Reed Timko</i>		<input type="checkbox"/> SOURCE REVIEW	<input type="checkbox"/> AMENDMENT OF REGISTRATION SHEET NUMBER(S)		
MAIL CONTROL NUMBER(S)		<input type="checkbox"/> DEVICE REVIEW			
LETTER/APPLICATION DATE	LICENSE NUMBER(S)	<input type="checkbox"/> CUSTOM REVIEW	<i>NR-776-D-101-E</i>		

COMMENTS:
*835 Sharon Drive
Westlake, OH 44145*

FOR SSSS USE ONLY

REVIEWER	MODEL NUMBERS <i>LD-PRO Series 612I 912I</i>	NUMBER ASSIGNED <i>98-81</i>
DATE RECEIVED <i>7/30/98</i>	DATE ASSIGNED	DATE TO FEES <i>8/2/98</i>

TYPE OF ACTION (Indicate the number of each type)

COMMERCIAL DISTRIBUTION (FORMAL)		USE BY A SINGLE APPLICANT (CUSTOM)	
SOURCE (9C)	DEVICE (9A)	SOURCE (9D)	DEVICE (9B)
<input type="checkbox"/> NEW AMENDMENT	<input checked="" type="checkbox"/> NEW AMENDMENT	<input type="checkbox"/> NEW AMENDMENT	<input type="checkbox"/> NEW AMENDMENT
<input type="checkbox"/> NO SAFETY EVALUATION REQUIRED <input type="checkbox"/> NO FEES REQUIRED		<input type="checkbox"/> LICENSING ACTION REQUIRED IF KNOWN	
<input type="checkbox"/> OTHER (Specify)		<input type="checkbox"/> YES <input type="checkbox"/> NO	

TOTAL NUMBER OF REVIEW HOURS	NOTES <i>CK was already sent to fees w/E-License application. (Note: the name for E Lic, not SS+D +DI Lic.) sk</i>
NUMBER OF DEFICIENCY LETTERS	
NUMBER OF DEFICIENCY CALLS	

FOR BILLING PURPOSES ONLY

<input type="checkbox"/> NAME CHANGE	<input type="checkbox"/> ADDRESS CHANGE	<input type="checkbox"/> NEW REGISTRATION - ADD TO BILLING	<input type="checkbox"/> PRODUCT INACTIVE - REMOVE FROM BILLING
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FOR FEE USE ONLY

TYPE OF FEE <i>AMD</i>	FEE CATEGORY <input type="checkbox"/> 9A <input type="checkbox"/> 9B <input type="checkbox"/> 9C <input type="checkbox"/> 9D		
AMOUNT RECEIVED <i>(\$960) 610</i>	CHECK NUMBER <i>007821</i>	<input type="checkbox"/> MATANN UPDATED AS REQUIRED	
DATE OF CHECK <i>8/7/98</i>	LOG <i>Int. 278 5500</i>	<input type="checkbox"/> MATSYS UPDATED AS REQUIRED	
APPROVED BY <i>sk</i>	DATE RETURN <i>8/12</i>	DATE	

COMMENTS



Grinnell®

FIRE PROTECTION SYSTEMS COMPANY

835 Sharon Drive
Westlake, Ohio 44145

A tyco INTERNATIONAL LTD. COMPANY

July 20, 1998

Changes to license 34-23772-01 Amendment 02

1. The new name of the licensed organization.

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

Grinnell Fire Protection Systems Co. is a division of Grinnell Corporation, a Delaware Corporation.

The license was originally issued in the name of Thorn Automated Systems, Inc. at the same address.

2. The new licensee contact and telephone number.

Reed Timko, Manager of Test Systems
Phone: 1-440-871-9900- ext 5122
Fax: 1-440-871-1870

3. Changes in personnel having control over licensed activities or named in licenses.

The Director of Operations, responsible for all activities related to the manufacturing process, is Al Hilt, who replaced H. T. Swanson. Mr. Hilt is a Professional Engineer and holds a Masters of Business Administration.

The Materials Manager, responsible for warehouse operations, including the area where the licensed materials will be stored for shipment, is Tim Woodworth, who replaced Danial Speese. Mr. Woodworth has 14 years of experience in warehousing and materials control.

The Radiation Safety Officer (RSO), who is also the Return Material Manager, is George E. Fertal, who replace H.T. Swanson. The Assistant RSO is Andy Schefft, Stockroom Clerk. On October 7, 1997, Mr. Fertal and Mr. Schefft successfully completed a two-day Radiation Safety and Management training course at Stan A. Huber Consultants, Inc. which is licensed by the State of Illinois (IL-010131001) Copies of Certificates of Recognition are submitted as Attachment B1.

4. Transferor status.

The transferor, Thorn Automated Systems, Inc., ceased to exist upon its merger with and into Grinnell Corporation as of December 31, 1996.

5. Description of the transfer transaction.

Pursuant to an agreement and Plan of Merger approved and adopted by each corporation in accordance with the General Corporation Law of the State of Delaware, Thorn Automated Systems, Inc. a Delaware corporation, on December 31, 1996, merged with and into Grinnell Corporation, also a Delaware corporation, with Grinnell Corporation the surviving corporation. See attachment B2 for pertinent correspondence relating to the transfer.

6. Planned changes in organization, location, facility, equipment or procedures.

Relevant changes in organization are as described above. There have been no changes in equipment. Changes to procedures have been made to accommodate the name change from Thorn to Grinnell. The following operating procedures have been updated.

The Rec. Insp. Procedure for Ionization Chamber Smoke Detectors dated 09/28/90 rev A and the Wipe Test Specifications procedure dated 10/20/? has been replaced by Grinnell procedure: Receipt and Shipping of Ion Detectors.

The Radiological Protection Procedure not dated is no longer applicable.

The Quality Plan for MF312 Ion Chamber Detectors Reference 710 dated August 8th 1989 and QP-15 Quality Plan – Manufacturing – Standard Product is no longer applicable.

New procedures have been included in Appendix E8 of Section II of this application.

7. Changes in use, possession, location or storage of licensed materials.

No changes to the location have been made. The area identified for storage of detectors on the site map submitted for Amendment 01, dated August 18, 1994, has been changed due to the expansion of the facility. A new site map is included as attachment B3.

8. Changes in organization, location, facilities, equipment, procedures or personnel that would require a license amendment even without the change of ownership.

Section III of this submission include documentation required to amend Section 10 of Materials License 34-23772-02E to include Tyco Electronic Product Group Lo-Pro series detectors.

9. Surveillance items and records

All surveillance items and records were current at the time of transfer, and remain current as applicable. Physical inventory records and wipe test records of MF Series ion detectors covered by the two referenced licenses have been maintained.

10. Records concerning decommissioning.

There have been no spills or unusual occurrences involving the spread of contamination in or around the facility, equipment or site. In addition, the sealed sources have not leaked. Drawings and information concerning structures and equipment in restricted areas where radioactive materials are used and/or stored are in attachment B3.

11. Contamination status of the facility

The facility at 835 Sharon Drive is free of contamination. All wipe test records of materials transferred from the facility indicate no source leakage. The facilities listed as 835 Sharon Drive indicate no source leakage. There has been no transfer of product since February 22, 1996.

12. Decontamination Plans

See responses 10 and 11.

13. Transfer Commitment

Grinnell Corporation agrees to abide by all commitments and representations previously made to the NRC by Thorn Automated Systems including those relating to maintaining decommissioning record, implementing decontamination activities, and addressing inspection items if any arise in the future. There are no open inspection items or enforcement actions. Grinnell accepts full responsibility for the site.

14. Agreement to the change in ownership or control of the licensed material.

See responses number 4, 5 and 13.

15. Commitment to Abide by Licenses

Grinnell Corporation hereby commits to abide by all constraints, conditions, requirements, representations, and commitments identified in the licenses.



CERTIFICATE

This is to certify that

George E. Fertal

has participated in
and successfully completed the

**Radiation Safety &
Management Course**

and is awarded this

CERTIFICATE OF RECOGNITION

on this date of October 2, 1997

Stan Huber

**Stan A. Huber, President
Stan A. Huber Consultants, Inc.**

Attachment B1

11/10/97 10 3 5 4

© 2013 440



CERTIFICATE

This is to certify that

Andrew R. Schefft

has participated in
and successfully completed the

**Radiation Safety &
Management Course**

and is awarded this

CERTIFICATE OF RECOGNITION

on this date of October 2, 1997

Stan Huber

**Stan A. Huber, President
Stan A. Huber Consultants, Inc.**

ATTACHMENT B-1



Grinnell[®]

CORPORATION

100
3 Tyco Park
Exeter, NH 03833-1114
603-778-9200

TO WHOM IT MAY CONCERN:

Grinnell Corporation is a wholly owned subsidiary of Tyco International Ltd. of Exeter, New Hampshire. Tyco is a New York Stock Exchange Company, a component of the S&P 500, and carries a 5A2 rating in Dun & Bradstreet.

TRADE REFERENCES

Sawhill Tubular
P.O. Box 11
Sharon, PA 16146
(412) 346-7107

NIBCO, Inc.
500 Simpson
Elkhart, IN 46515
(219) 295-3000

BANK REFERENCE

Global Corp. Attn: Marlene Bushee FAX #(412) 234-8390
Banking Credit Inquiry
Mellon Bank
One Mellon Bank Center
Room 4550
Pittsburgh, PA 15258-0001

BONDING COMPANY

Federal Insurance Company
15 Mountain View Road
Warren, NJ 07061

AGENT OF BONDING COMPANY

Willis Corroon
1 Exeter Plaza
Boston, MA 02116

GRINNELL CORPORATION IS THE SUCCESSOR IN INTEREST
TO THORN AUTOMATED SYSTEMS, INC.

FP/pws
143PWS

ATTACHMENT B2

FILED

MAR 6 1998

9AM

General Services

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF

GRINNELL FIRE PROTECTION SYSTEMS COMPANY, INC.

Adopted in accordance with the provisions
of Section 242 of the General Corporation
Law of the State of Delaware

We, L. Dennis Kozlowski, President and Bernard J. Doherty, Secretary of Grinnell Fire Protection Systems Company, Inc., a corporation existing under the laws of the State of Delaware, do hereby certify as follows:

FIRST: That the Certificate of Incorporation of said corporation has been amended as follows:

By striking out the whole of Article 1 thereof as it now exists and inserting in lieu and instead thereof a new Article 1, reading as follows:

ARTICLE 1. The name of the corporation is
GRINNELL CORPORATION.

SECOND: That such amendment has been duly adopted in accordance with the provisions of the General Corporation Law of the State of Delaware by the unanimous written consent of all of the stockholders entitled to vote in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, we have signed this certificate this 14th day of February, 1986.

L. Dennis Kozlowski

President

00002

ATTEST:

B. J. Doherty

Secretary

-197-

12-31-96
09:00

**CERTIFICATE OF MERGER
OF
THORN AUTOMATED SYSTEMS, INC.**

(Subsidiary)

INTO

GRINNELL CORPORATION
(Parent)

The undersigned corporation, organized and existing under and by virtue of the General Corporation Law of the State of Delaware,

DOES HEREBY CERTIFY:

FIRST: That the name and state of incorporation of each of the constituent corporations of the merger is as follows:

<u>Name</u>	<u>State of Incorporation</u>
Grinnell Corporation	Delaware
Thorn Automated Systems, Inc.	Delaware

SECOND: That an agreement and plan of merger ("Agreement and Plan of Merger") between the parties to the merger has been approved, adopted, certified, executed and acknowledged by each of the constituent corporations in accordance with the requirements of Section 251 of the General Corporation Law of the State of Delaware.

THIRD: That the name of the surviving corporation of the merger is Grinnell Corporation.

FOURTH: That the Certificate of Incorporation of Grinnell Corporation, a Delaware corporation, the surviving corporation, shall be the Certificate of Incorporation of the surviving corporation.

FIFTH: That the executed Agreement and Plan of Merger is on file at the principal place of business of the surviving corporation. The address of the principal place of business of the surviving corporation is Three Tyco Park, Exeter, New Hampshire 03833.

State of Delaware

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"THORN AUTOMATED SYSTEMS, INC.", A DELAWARE CORPORATION, WITH AND INTO "GRINNELL CORPORATION" UNDER THE NAME OF "GRINNELL CORPORATION", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE THIRTY-FIRST DAY OF DECEMBER, A.D. 1996, AT 9 O'CLOCK A.M.



Edward J. Freel

Edward J. Freel, Secretary of State

0776275 8100M

971014340

AUTHENTICATION:

DATE:

8285880

01-15-97


SIXTH: That a copy of the Agreement and Plan of Merger will be furnished by the surviving corporation on request and without cost to any stockholder of any constituent corporation.

IN WITNESS WHEREOF, the undersigned, the surviving corporation, has caused this Certificate of Merger to be signed by a duly authorized officer and attested thereto this 31st day of December, 1996.

GRINNELL CORPORATION

By: 
John J. Guarnieri
Vice President

ATTEST:

By: 
M. Brian Moroze
Assistant Secretary

Site Map

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

