

030-20007

FAG BEARINGS CORPORATION



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TWX 710-474-0891/CABLE FAG USA

June 30, 1988

Dr. John Glenn
Chief, Nuclear Materials Section B
United States Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

TO:	<i>Jul 16 I</i>
FROM:	<i>056376</i>
SUBJECT:	<i>4120</i>
RE:	<i>3B 3N 3P</i>
DATE:	<i>7/26/88</i>
TIME:	<i>7/26/88</i>
BY:	<i>Merrin</i>

RECEIVED
'88 JUL 26 10:36

Subject: Application for License Amendment to
FAG Bearings Corporation License # 06-20631-01

Dear Dr. Glenn:

We would like to amend the subject license in the following manner:

1. The demonstration area of the FAG Gauging facility will no longer contain working gauges, or be used for demonstrations using isotope materials but will be used for office space for the FAG Industrial Gauging staff. The service part of the facility will still be used for servicing gauges and testing sources.

REASON FOR CHANGE: Experience over the past several years has shown that due to the wide diversity of applications for which FAG gauges are designed, it was very difficult to demonstrate gauges for specific applications at our Stamford facility. Therefore, we have decided that we will no longer demonstrate working gauges at this location. The area which was previously used for gauge demonstrations will now be used as office space for the gauging staff.

CHANGES TO FACILITY: Figure 1 shows the gauging facility as it had been designed and approved by the NRC in our original license application. The area consisted of a log in area, a demo area and a service area.

Figure 2 shows the new design for the area. The visitor log in area and the demonstration room have been combined into one area to be used as office space. The service area remains and will be used for storage of sources, and other activities as approved under our license.

RADIATION PROTECTION: The area to be used as office space has had three film badges used as area monitors since August of 1984. From that time to the

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06-20631-01

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Page 2

present, the total accumulated dose on any one badge was 30 mREM. The area has also been surveyed on a regular basis with a meter, and at no time have readings been above background. Figures 3 - 5 show film badge summaries. Based upon these results, it is expected that no personnel working in this area will be exposed to radiation. Three film badges will still be used to monitor the area, and regular meter surveys will be performed. Film badges will be read on a monthly basis.

The door leading to the service area is secured with a standard door lock and a deadbolt lock. Access to this area will be only under the supervision of the Radiation Safety Officer. Use of the area and procedures to be used will not change from those previously approved. Since sources will no longer be loaded into demo gauges used in the facility, all sources will be stored in the safe.

SUMMARY: We are confident that changing the demo-log in area to an office area presents no hazard to those employees who will work there. Enclosed you will find a check in the amount of \$120.00 as per 10 CFR 170.31 Category 3B.

Thank you for your attention to this matter, if you have any questions or comments, please feel free to contact me.

Regards,

Walter Schwarz
President

WS/ld

Attachments

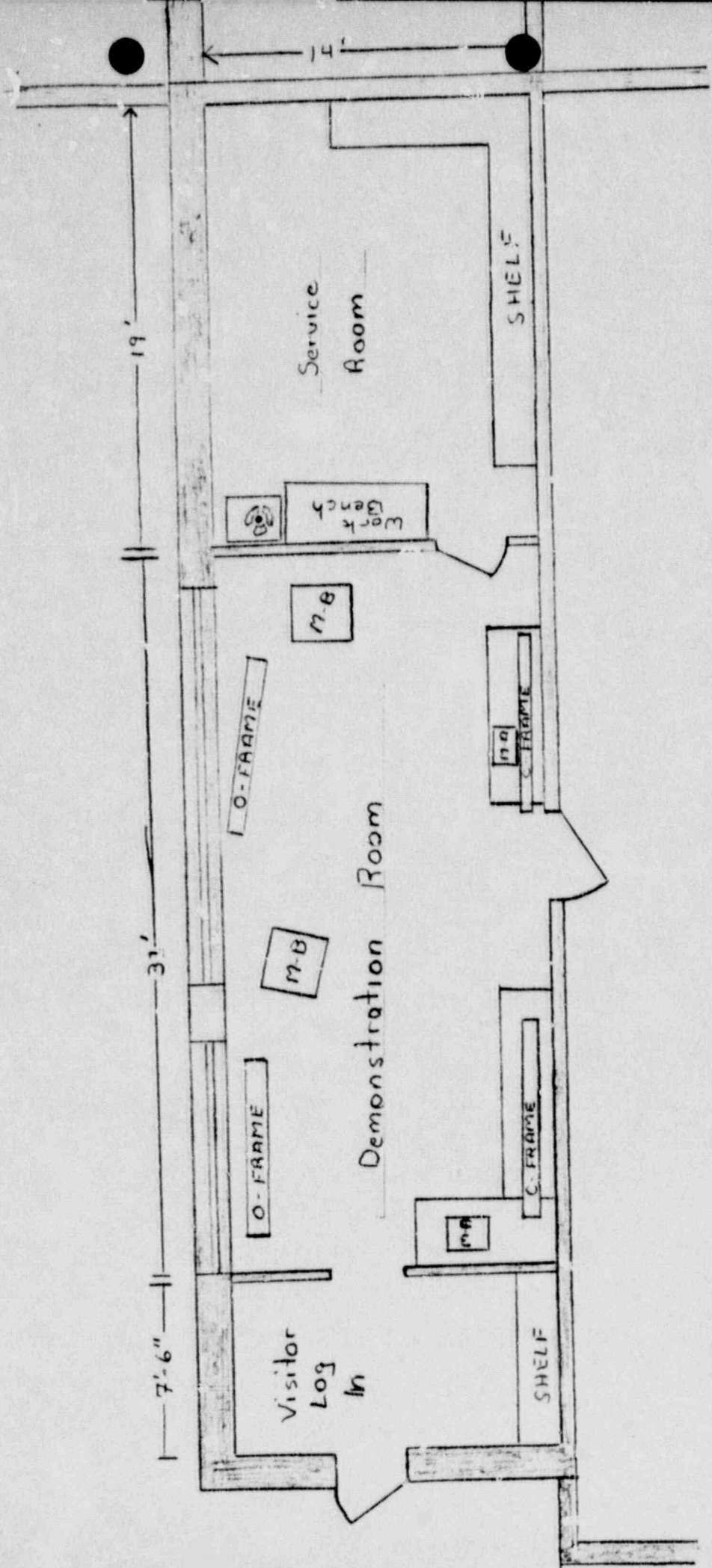
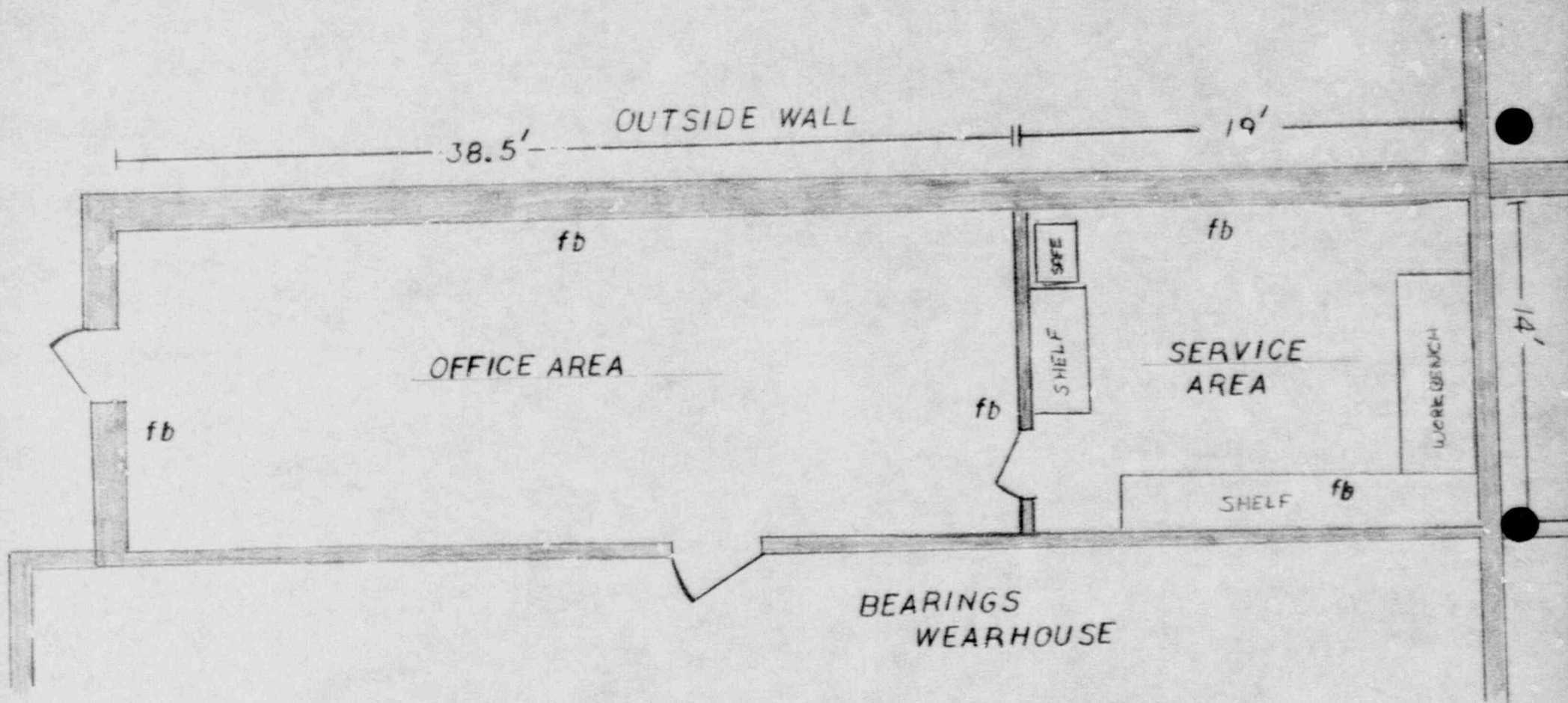


FIG. 1

FIG. 2

fb = FILM BADGE



IDENTIFICATION
**OCCUPATIONAL
 RADIATION
 EXPOSURE**

716.3

Prepared by

Landauer®

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 National Bureau of Standards
 through NPLA

Tech/Ops Landauer, Inc.
 2 Science Road, Glenwood, Illinois 60425-1586
 (312) 755-7000

ACCOUNT NO. 02720 SERIES CODE PARTICIPANT NO. 00007 PREPARATION DATE 5/20/88 MO. DAY YR. TERMINATION REPORT FIRST REPORT FOR MONITORED INDIVIDUAL (to be completed by customer)

IDENTIFICATION

1. NAME (LAST, FIRST AND MIDDLE) LAB MONITOR
 2. SOCIAL SECURITY NUMBER
 3. SEX
 4. DATE OF BIRTH MO. DAY YEAR
 5. NAME OF LICENSEE OR REGISTRANT FAG BEARINGS COR
 6. EMPLOYER - IF DIFFERENT FROM LICENSEE (COMPLETED BY CUSTOMER)
 7. CITY OR STATE REGISTRATION NUMBER
 8. NRC, AGREEMENT STATE, OR STATE LICENSE

OCCUPATIONAL EXPOSURE (EXTERNAL)

9. DOSE RECORD FOR CODE: 1 TOTAL BODY (DEEP) - 1 RIGHT WRIST - 5
 SKIN OF TOTAL BODY (SHALLOW) - 2 LEFT WRIST - 6
 RIGHT HAND - 3 OTHER EXTREMITY - 7
 LEFT HAND - 4 OTHER TOTAL BODY - 8

10. METHOD OF MONITORING CODE: 1 FILM BADGE - 1 SOLID STATE - 4
 POCKET CHAMBER - 2 OTHER - 5
 CALCULATIONS - 3

11. PERIOD OF EXPOSURE FROM TO			12. X OR GAMMA DOSE FOR THE PERIOD (REM) DECIMAL	13. BETA DOSE FOR THE PERIOD (REM) DECIMAL	14. NEUTRON DOSE FOR THE PERIOD (REM) DECIMAL	15. TOTAL DOSE FOR THE PERIOD (REM) DECIMAL	16. TOTAL LIFETIME ACCUMULATED DOSE (REM) DECIMAL	17. PERMISSIBLE ACC DOSE SIN 1968 (REM)	18. UNUSED PART OF PERMISSIBLE ACC DOSE IN (REM) DECIMAL	19. NUMBER OF BADGES REPORTED
MO	DAY	YR	MO	DAY	YR					
1	25	88	4	24	88	M	M	M	010	3

20. INCEPTION DATE OF SERVICE WITH R. S. LANDAUER JR. CO 8/84
 21. PREVIOUSLY SUPPLIED TOTAL OCCUPATIONAL EXTERNAL RADIATION EXPOSURE HISTORY INCLUDED IN COLUMN 16. DECIMAL
 SKIN DOSE EXPOSURE INCLUDES SUM OF X OR GAMMA, BETA AND NEUTRON EXPOSURE. "M" INDICATES EXPOSURE LESS THAN 10 MR

ESTIMATE OF INTERNAL EXPOSURE (TO BE COMPLETED BY CUSTOMER)

22. PERIOD OF EXPOSURE FROM TO						23. NUCLIDE(S)	24. CRITICAL ORGAN(S)	25. ESTIMATE OF EXPOSURE
MO	DAY	YR	MO	DAY	YR			

CERTAIN REGULATORY AGENCIES REQUIRE THE REPORTING OF ADDITIONAL INFORMATION. THE FOLLOWING SPACE IS PROVIDED FOR YOUR CONVENIENCE IN PROVIDING THIS DETAIL.

26. OCCUPATIONAL CLASSIFICATION	CODE	27. SOURCE OF EXPOSURE	CODE	28.	CODE	29.	CODE
	NO.		NO.		NO.		NO.
PHYSICIAN	- 1	X-RAY	1				
TECHNICIAN		RADIOACTIVE MATERIALS	- 2				
DIRECTED BY	- 2	BOTH	- 3	RMA - 1 - 1			
PHYSICIAN				RMA - 2 - 2			
OTHER	- 3						

This form is for use in place of certain reports required by OSHA, NRC licensees and by state regulations (29CFR1910.96 n, 10CFR19.13 and 10CFR20.401 - 20.409) or for the maintenance of individual personal radiation exposure files and satisfies regulations that require reporting of exposure to employees. It contains the requisite information for NRC FORM - 5, California RH - 2365, Illinois RMA - 1, Nebraska NR - 1 - 2, New Hampshire RCA - 7, Tennessee RNS 8-2, TEXAS TRCR 22.13A, and other similar forms.

This report is furnished to you under the provisions of the Nuclear Regulatory Commission regulation 10 CFR part 19. You should reserve this report for further reference.

FIG. 4
**OCCUPATIONAL
 RADIATION
 EXPOSURE**

Prepared by

Landauer®

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 National Bureau of Standards
 through **NVLAP**

Tech/Ops Landauer, Inc.
 2 Science Road, Glenwood, Illinois 60425-1586
 (312) 755-7000

00013110

ACCOUNT NO. 52720 SERIES CODE PARTICIPANT NO. 00000 PREPARATION DATE 5/20/88 MO. DAY YR
 TERMINATION REPORT FIRST REPORT FOR MONITORED INDIVIDUAL (to be completed by customer)

IDENTIFICATION

1. NAME (LAST, FIRST AND MIDDLE) LAB MONITOR
 2. SOCIAL SECURITY NUMBER
 3. SEX
 4. DATE OF BIRTH MO. DAY YEAR
 5. NAME OF LICENSEE OR REGISTRANT FAC BEARINGS CUR
 6. EMPLOYER - IF DIFFERENT FROM LICENSEE (COMPLETED BY CUSTOMER)
 7. CITY OR STATE REGISTRATION NUMBER
 8. NRC, AGREEMENT STATE, OR STATE LICENSE

OCCUPATIONAL EXPOSURE (EXTERNAL)

9. DOSE RECORD FOR CODE:
 TOTAL BODY (DEEP) - 1
 SKIN OF TOTAL BODY (SHALLOW) - 2
 RIGHT HAND - 3
 LEFT HAND - 4
 CODE: RIGHT WRIST - 5, LEFT WRIST - 6, OTHER EX+HEMITY - 7, OTHER TOTAL BODY - 8

10. METHOD OF MONITORING CODE:
 FILM BADGE - 1, SOLID STATE - 4
 POCKET CHAMBER - 2, OTHER - 5
 CALCULATIONS - 3

11. PERIOD OF EXPOSURE FROM			12. X OR GAMMA DOSE FOR THE PERIOD (REM) DECIMAL			13. BETA DOSE FOR THE PERIOD (REM) DECIMAL			14. NEUTRON DOSE FOR THE PERIOD (REM) DECIMAL			15. TOTAL DOSE FOR THE PERIOD (REM) DECIMAL			16. TOTAL LIFETIME ACCUMULATED DOSE (REM) DECIMAL			17. PERMISSIBLE ACC DOSE (50-100 REM)			18. UNUSED PART OF PERMISSIBLE ACC DOSE IN (REM) DECIMAL			19. NUMBER OF BADGES REPORTED								
MO.	DAY	YR.	MO.	DAY	YR.	MO.	DAY	YR.	MO.	DAY	YR.	MO.	DAY	YR.	MO.	DAY	YR.	MO.	DAY	YR.	MO.	DAY	YR.	MO.	DAY	YR.	MO.	DAY	YR.			
1	20	88	4	24	88																											

20. INCEPTION DATE OF SERVICE WITH R S LANDAUER, JR & CO. 8/84
 21. PREVIOUSLY SUPPLIED TOTAL OCCUPATIONAL EXTERNAL RADIATION EXPOSURE HISTORY INCLUDED IN COLUMN 16
 SKIN DOSE EXPOSURE INCLUDES SUM OF X OR GAMMA, BETA AND NEUTRON EXPOSURE. "M" INDICATES EXPOSURE LESS THAN 10 MR.

ESTIMATE OF INTERNAL EXPOSURE (TO BE COMPLETED BY CUSTOMER)

22. PERIOD OF EXPOSURE FROM TO
 MO. DAY YR. MO. DAY YR.
 23. NUCLIDE(S)
 24. CRITICAL ORGAN(S)
 25. ESTIMATE OF EXPOSURE

CERTAIN REGULATORY AGENCIES REQUIRE THE REPORTING OF ADDITIONAL INFORMATION. THE FOLLOWING SPACE IS PROVIDED FOR YOUR CONVENIENCE IN ADDING THIS DETAIL.

26. OCCUPATIONAL CLASSIFICATION CODE NO. 27. SOURCE OF EXPOSURE CODE NO. 28. CODE NO. 29. CODE NO.

PHYSICIAN - 1 X-RAY - 1
 TECHNICIAN DIRECTED BY - 2 RADIOACTIVE MATERIALS - 2
 PHYSICIAN - 3 BOTH - 3 RMA - 1 - 1
 OTHER - 3 RMA - 2 - 2

This form is for use in place of certain reports required by OSHA, NRC, licensees and by state regulations (29CFR1910.96 n, 10CFR19.13 and 10CFR20.401 - 20.409) or for the maintenance of individual personal radiation exposure files and satisfies regulations that require reporting of exposure to employees. It contains the requisite information for NRC FORM - 5, California RH - 2365, Illinois RMA - 1, Nebraska NRH - 2, New Hampshire RCA - 7, Tennessee RHS 8-2, TEXAS TRCR 22.13A, and other similar forms.

This report is furnished to you under the provisions of the Nuclear Regulatory Commission regulation 10 CFR part 19. You should preserve this report for further reference.

FORM NO. 132-16

Prepared by

Landauer®

Tech/Ops Landauer, Inc.
2 Science Road, Glenwood, Illinois 60425-1586
(312) 755-7000

OCCUPATIONAL FIG. 5

RADIATION EXPOSURE

Accredited by the
National Bureau of Standards
through **NVLAP**

ACCOUNT NO A 82720	SERIES CODE	PARTICIPANT NO 00003	PREPARATION MO. DAY YR DATE 5/20/88	<input type="checkbox"/> TERMINATION REPORT	<input type="checkbox"/> FIRST REPORT FOR MONITORED INDIVIDUAL (to be completed by customer)
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IDENTIFICATION

1. NAME (LAST, FIRST AND MIDDLE) LAD MONITOR	2. SOCIAL SECURITY NUMBER	3. SEX	4. DATE OF BIRTH MO. DAY YEAR
5. NAME OF LICENSEE OR REGISTRANT FAC BEARINGS CUR		6. EMPLOYER - IF DIFFERENT FROM LICENSEE (COMPLETED BY CUSTOMER)	
7. CITY OR STATE REGISTRATION NUMBER		8. NRC AGREEMENT STATE, OR STATE LICENSE	

OCCUPATIONAL EXPOSURE (EXTERNAL)

9. DOSE RECORD FOR				10. METHOD OF MONITORING					
CODE: TOTAL BODY (DEEP) - 1 SKIN OF TOTAL BODY (SHALLOW): RIGHT HAND - 2 LEFT HAND - 4				CODE: FILM BADGE - 1 POCKET CHAMBER - 2 CALCULATIONS - 3					
CODE: RIGHT WRIST - 5 LEFT WRIST - 6 OTHER EXTREMITY - 7 OTHER TOTAL BODY - 8				CODE: SOLID STATE - 4 OTHER - 5					
11. PERIOD OF EXPOSURE FROM TO		12. X OR GAMMA DOSE FOR THE PERIOD (REM) DECIMAL	13. BETA DOSE FOR THE PERIOD (REM) DECIMAL	14. NEUTRON DOSE FOR THE PERIOD (REM) DECIMAL	15. TOTAL DOSE FOR THE PERIOD (REM) DECIMAL	16. TOTAL LIFETIME ACCUMULATED DOSE (REM) DECIMAL	17. PERMISSIBLE ACC DOSE (50-100 REM)	18. UNUSED PART OF PERMISSIBLE ACC DOSE IN (REM) DECIMAL	19. NUMBER OF BADGES REPORTED
MO. DAY YR.	MO. DAY YR.								
1/25/80	4/24/88	M		M	M	030			3
20. INCEPTION DATE OF SERVICE WITH R. S. LANDAUER, JR. & CO.		21. PREVIOUSLY SUPPLIED TOTAL OCCUPATIONAL EXTERNAL RADIATION EXPOSURE HISTORY INCLUDED IN COLUMN 16		DECIMAL		SKIN DOSE EXPOSURE INCLUDES SUM OF X OR GAMMA, BETA AND NEUTRON EXPOSURE. "M" INDICATES EXPOSURE LESS THAN 10 MR.			
8/84									

ESTIMATE OF INTERNAL EXPOSURE (TO BE COMPLETED BY CUSTOMER)

22. PERIOD OF EXPOSURE FROM TO			23. NUCLIDE(S)	24. CRITICAL ORGAN(S)	25. ESTIMATE OF EXPOSURE
MO. DAY YR.	MO. DAY YR.				

CERTAIN REGULATORY AGENCIES REQUIRE THE REPORTING OF ADDITIONAL INFORMATION. THE FOLLOWING SPACE IS PROVIDED FOR YOUR CONVENIENCE IN ADDING THIS DETAIL.

26. OCCUPATIONAL CLASSIFICATION	CODE	27. SOURCE OF EXPOSURE	CODE	28.	CODE	29.	CODE
PHYSICIAN DIRECTED BY	- 1	X-RAY	- 1				
TECHNICIAN	- 2	RADIOACTIVE MATERIALS	- 2	RMA - 1 - 1			
OTHER	- 3	BOTH	- 3	RMA - 2 - 2			

This form is for use in place of certain reports required by OSHA, NRC licensees and by state regulations (29CFR1910.96 n, 10CFR19.13 and 10CFR20.401 - 20.409) or for the maintenance of individual personal radiation exposure files and satisfies regulations that require reporting of exposure to employees. It contains the requisite information for NRC FORM - 5, California RH - 2365, Illinois RMA - 1, Nebraska NRH - 2, New Hampshire RCA - 7, Tennessee RHS 8-2, TEXAS TRCR 22.13A, and other similar forms.

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109235

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 03214
STATUS CODE: J
FEE CATEGORY: 3B 3N 3P
EXP. DATE: 19890930
FEE COMMENTS: -----
.....

LICENSE FEE TRANSMITTAL

A. REGION 1

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: FAR BEARINGS CORPORATION
RECEIVED DATE: 880714
DOCKET NO: 0020007
CONTROL NO.: 109235
LICENSE NO.: 06-20631-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED
AMOUNT: 120.00
CHECK NO.: 056376

3. COMMENTS

SIGNED BP
DATE 7/20/88

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1)

1. FEE CATEGORY AND AMOUNT: 3B (\$120)

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT ✓
RENEWAL _____
LICENSE _____

3. OTHER _____

SIGNED M. [Signature]
DATE 7/26/88