

file copy

VOID SHEET

Sept 1993
3 I
021443 ✓

TO: License Fee Management Branch
FROM: Patricia C. Vacca
SUBJECT: VOIDED APPLICATION

Control Number: 021443
Applicant: Siemens Analytical X-Ray Instruments
Date Voided: November 23, 1993
Reason for Void: Licensee's ltr dtd 11/16/93
specifically requests NRC to abandon this application.

Patricia C. Vacca 11/23/93
Signature Date

Attachment:
Official Record Copy of
Voided Action

CP 11/24/93
SP 11/24/93

FOR LFMB USE ONLY

Final Review of VOID Completed:

- Refund Authorized and processed
- No Refund Due
- Fee Exempt or Fee not Required

Comments: POSTER REVIEW

Log completed
Processed by: Linda Mitchell
5-11-94
MLB
cy to Reg III

110056

9405260130 931123
PDR ADDCK 03032933
C PDR

file copy

VOID SHEET

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FROM: Patricia C. Vacca
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Signature Date

CSH/22/93
Soy 11/24/93

Attachment:
Official Record Copy of
Voided Action

FOR LFMB USE ONLY

Final Review of VOID Completed:

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- No Refund Due
- Fee Exempt or Fee Not Required

Comments: _____

Log completed
Processed by: _____

MLOD
cy to Reg III

NOV 23 1993

Siemens Analytical X-Ray Instruments
ATTN: Mr. Brett A. Yeager
Quality Assurance Engineer
6300 Enterprise Lane
Madison, Wisconsin 53719-1173

Dear Mr. Yeager:

You are hereby notified that your request for a material license, dated September 15, 1992, with application, dated July 9, 1992, has been abandoned as requested in your letter of November 16, 1993, without prejudice to the resubmission of the application.

If I can be of further assistance, please contact me at (301) 504-2686.

Sincerely,

Original signed by:

Susan L. Greene
Medical, Academic, and Commercial
Use Safety Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material Safety
and Safeguards

DISTRIBUTION:

License File
IMNS Central File
NMSS r/f
CBoyle
SGreene
PVacca
JPiccone
JGlenn
Region III
OSP

OFC	IMAB:NMSS	C	IMAB:NMSS	C	IMAB:NMSS	e		
NAME	CJBoyle:cjb		SGreene		PVacca			
DATE	11/27/93		11/27/93		11/27/93			

C = COVER

E = COVER & ENCLOSURE

N = NO COPY

OFFICIAL RECORD COPY

C:\32-VOID.CB

SIEMENS

November 16, 1993

Ms. Susan Greene
Medical, Academic and
Commercial Use Safety Branch
Division of Industrial & Medical Nuclear Safety
Office of Nuclear Material Safety and Safeguards
United State Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Reference Control Number 021443

Dear Susan:

Thank you for your letter of October 13, 1993. On July 14, 1992 I filed an application with your office for the re-distribution of an exempt quantity and was given the Reference Control Number listed above.

At this time, for numerous reasons, Siemens Analytical X-Ray Instruments wishes to abandon this application. We have chosen to pursue an alternate distribution channel. In the near future, your office will receive an application from Isotope Products Laboratories regarding this matter.

I understand that our abandonment of this application does not constitute the full return of our application fee. I realize that the application has been reviewed by your office and considerable time has been spent in trying to resolve this matter. I am sure it will be reviewed and the appropriate consideration will be given to the partial return of our application fee.

Sincerely,



Brett A. Yeager
Quality Assurance Engineer

BAY/sw

Mr. Brett A. Yeager

- 4 -

OCT 13 1993

As this will be our third attempt (one deficiency phone call and two letters) to obtain additional information concerning deficiencies in your application package, it is strongly recommended that you review the questions carefully and provide complete, detailed responses and contact me with any questions you may have concerning your licensing request.

Our review of your request will continue upon receipt of the above information. Please reply within 30 days, in duplicate, and reference Mail Control No. 021443. If you have any questions, please feel free to contact me at (301) 504-2686.

Sincerely,

Original signed by:

Susan L. Greene
Medical, Academic, and Commercial
Use Safety Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material Safety
and Safeguards

Enclosure:
10 CFR Part 2

cc: Ms. Susan J. Engelhardt
2800 S. Fish Hatchery Road
Madison, WI 53711-5399

DISTRIBUTION:
License File
IMNS Central File
NMSS r/f
SGreene
JPiccone
JEGlenn

OFC	IMAB:NMSS	C	IMAB:NMSS	C			
NAME	SLGreene	scjb	JMPiccone				
DATE	10/2/93		10/13/93				

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OCT 13 1993

Siemens Analytical X-Ray Instruments
ATTN: Mr. Brett A. Yeager
6300 Enterprise Lane
Madison, Wisconsin 53719-1173

Dear Mr. Yeager:

This concerns the information and product sample delivered by Ms. Engelhardt on August 10, 1993, in response to our letter dated July 14, 1993, informing you that additional information was needed in order to continue our review of your request for an exempt distribution license.

After reviewing the information and product sample provided, we find it necessary to request the following additional clarification and information:

1. The brochure you provided entitled, "5.2 Fe-55 Source Calibration," states, "Attach the Fe-55 X-ray source onto the sample holder (Figure 15)." Figure 15 appears to indicate that the Fe-55 source is attached to the source holder and covered with a protective cap to later be installed onto the calibration device. However, from the product you provided for review, it would seem that the source holder containing the Fe-55 source is permanently attached to the calibration device prior to distribution. This incorporation of byproduct material into a device for exempt distribution is clearly prohibited in 10 CFR 32.18(c) which states that "The byproduct material is..., but is not incorporated into any manufactured or assembled commodity, product, or device intended for commercial distribution."

Please note that if our understanding of the device you provided is correct, then the device is prohibited pursuant to 32.18 and cannot be authorized for exempt distribution. If our understanding is incorrect, you must more clearly define the product to be distributed. Is the source attached to the source holder considered the product or is the product the entire calibration device with the source holder and the Fe-55 source? You should also completely describe how the device is attached to the source holder and how the source holder is installed into the device. Your description should indicate whether the customer or the manufacturer of the device installs the source holder onto the device.

2. The exemption from licensing requirements in 10 CFR 30.18 to persons who receive, possess, use, transfer, own, or acquire byproduct material in individual quantities each of which does not exceed quantities listed in 30.71, Schedule B., prohibits the incorporation of byproduct material

into products intended for commercial distribution. In other words, you cannot take a source obtained under an exempt distribution license and incorporate it into another product and then again distribute as an exempt distribution product. Therefore, if you receive Fe-55 sources from Isotope Products under their exempt distribution license, you cannot modify and install these sources into Siemens devices for commercial transfer as exempt distribution products. In order to transfer products under exempt distribution, Siemens must obtain the Fe-55 sources from a specifically licensed manufacturer under their possession and use license. Please advise us as to how you plan to rectify this situation.

Concerning the sample device you provided, because the source mounted onto the device has been altered from the original source distributed as an exempt distribution product, it is no longer an exempt distribution source and is now considered unauthorized radioactive material. As such, we are returning the sample device (as well as the Fe-55 check source) to you under separate cover. In lieu of an actual device, you should instead provide detailed drawings or a "dummy" product or device without the radioactive material.

If the information requested above is submitted and the product is found to meet the initial requirements for exempt distribution; in order to approve your application request, it will be necessary for you to also address the following items concerning the final product:

3. Paragraph 32.19(c), 10 CFR Part 32, requires that the immediate container of each quantity be affixed with a durable and legible label identifying the radioisotope and the quantity of radioactivity and bear the words "Radioactive Material." Your proposed method of labelling the protective cap is not acceptable for the following reasons:
 - A. The sample you provided contains the original label from the Isotope Products source. This is not the product that was distributed by Isotope Products and; therefore, should not contain their label or name.
 - B. The specific activity on the label is not necessarily accurate since you have "cut down" the Isotope Products source in order to make your own source.
 - C. The regulations specify that the immediate container must bear the appropriate label or marking. In this case, your labelling of the protective cap does not meet this requirement because the source holder is the immediate container and should be labelled or marked.

Please provide a sample or copy of the label showing how you intend to meet the above labelling requirements. You should also clearly indicate where the label will be located on the source or source holder.

OCT 13 1993

4. We note that several attachments to your request, specifically the drawings, are marked "confidential or proprietary." Please be aware that license applications are available for review by the general public in the NRC Public Document Room. Information of a proprietary or confidential nature should not be submitted unless absolutely necessary and then must be submitted in accordance with the procedures outlined in 10 CFR 2.790 (copy enclosed). Failure to follow these procedures may result in disclosure of the proprietary information to the public. If you wish any of the information contained in your application to be withheld from public disclosure, you must follow the above referenced procedures. If you determine that the information is not "proprietary or confidential," please resubmit the drawings with these statements deleted. The new drawings will replace your original drawings which will then be returned to you.
5. The "Warning" statement contained in your product brochure implies a serious safety hazard which is excessive. The products authorized under 10 CFR 32.18 contain very small quantities of byproduct material that have been evaluated and determined safe for distribution to persons without a license. 10 CFR 32.19(d) requires that brochures should provide appropriate additional radiation safety precautions and instructions as to the handling, use, storage, and disposal of radioactive material. The information should discuss basic radiation safety and good laboratory practices, such as time, distance, and shielding; use only as intended by authorized users; storage security; and disposal. Submit an example of the changes you propose to make to the product brochures to be provided to your customers.
6. As discussed previously, we are concerned about the method used to attach the source to the source holder. It would seem from the sample provided that it is not very difficult to separate the source from the holder. Please provide the procedures and results of any prototype testing performed to assure us of the durability and permanence of "sticking" the source to the holder with tape. You should also provide any modifications you intend to use to make the attachment more permanent.
7. We noted in our earlier letter that there appeared to be some confusion concerning the difference between general and exempt distribution licenses. Review your application package carefully to identify the areas that do not pertain to your exempt distribution activities. You should indicate the information to be deleted or resubmit your application package without information concerning general licenses.
8. Submit a listing of all locations from which you will be distributing and provide a copy of the possession license for each location.

10 August 1993

Mrs. Susan Greene

Medical, Academic, and Commercial Use Safety Branch
Division of Industrial and Medical Nuclear Safety
Office of Nuclear Material Safety and Safeguards
United States Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Dear Susan

I tried to reach you several times with respect to your deficiency letter of 14 July, 1993, in that I wanted to meet with you so that I could explain the enclosed information and instruments. However, since that was not possible, please review the enclosed.

- (1) The larger, round piece of equipment shows you how the entire assembly appears when the customer uses it. The tiny dot on the front surface is the source.
- (2) The smaller box contains a small source, exactly as it is shipped to Siemens. Please note labelling. I have included a descriptive customer information sheet that explains use of the source and warnings; 5.2

The above (2) items are enclosed in the box you have just received. Please review and call me regarding your other questions; there is still some confusion on this.

I apologize for the "handwritten" note, but I did intend to hand deliver this to you. I will be back in my office next week Wednesday, so please contact me. I m

sorry I missed you when I was in the
Washington area. It would have made
things so much easier.

Sincerely,
Susan J. Enghardt
President

5.2 Fe⁵⁵ Source Calibration

To correct the detector's response to a uniform field, it is necessary to perform a flood field correction. Since a uniform field is difficult to obtain, the program assumes a point source at a finite distance and corrects for the uniformity of the image.

A source calibration must be performed when the instrument is first installed, and whenever the X-ray optics have been modified (i.e. by changing the source, by changing the detector-to-sample distance, or by changing the sample).

Note: Calibration stability is only guaranteed for 24 hours of use. To maintain accurate results, the system should be recalibrated after 24 hours of use.

1. Turn the PDC POWER switch OFF.
2. Remove the existing sample from the sample holder on the goniometer head.
3. Attach the Fe⁵⁵ X-ray source onto the sample holder (Figure 15).

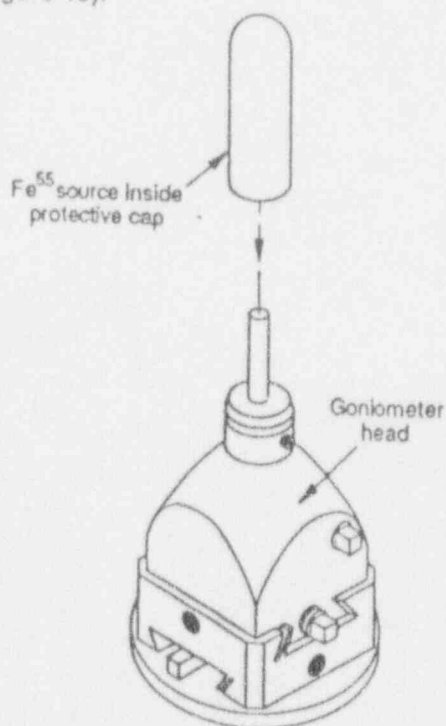


Figure 15. Attaching the Fe⁵⁵ Source

4. Drive all angles to zero.
5. When you are ready to align the Fe⁵⁵ source, carefully remove the protective cap (Figure 16).

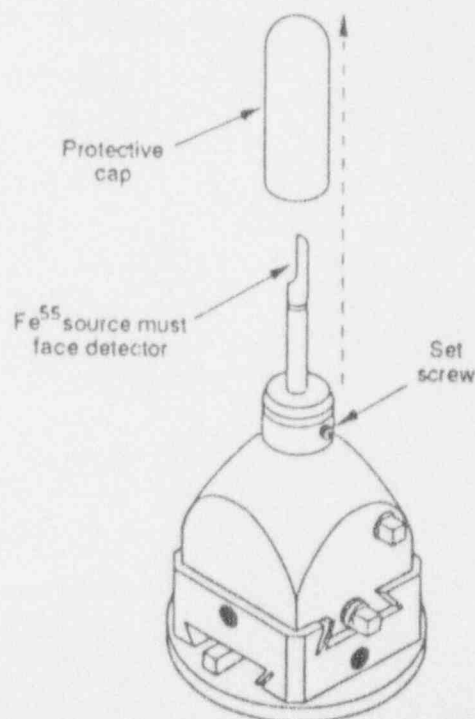


Figure 16. Removing the Protective Cap

⚠ WARNING

WARNING – Radiation Hazard: Do not remove the protective cap from the Fe⁵⁵ X-ray source until you are ready to perform the calibration. Do not touch the iron source. Prolonged exposure can cause serious damage to skin and eyes.

6. Manually point the Fe⁵⁵ source at the area detector. To do this, you may have to loosen the set screw located at the top of the sample holder (Figure 16).
7. Align the Fe⁵⁵ sample with the crosshairs in the microscope eyepiece.
8. Set the area detector BIAS control for Fe⁵⁵.

CONVERSATION RECORD

TIME 9:20

DATE 8/2/93

TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING

OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

Brett Yeager

Siemens

SUBJECT re: licence application

ROUTING

NAME/SYMBOL INT

SUMMARY

⇒ has sent info requested in 7/14/93 deficiency letter & dummy from them - an actual source from Isotope Products.

⇒ Drue Engelhardt, consultant, is going to be in town next week, she is going to try to set up a meeting at that time

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Lisa L. Greene

8/2/93

ACTION TAKEN

SIGNATURE

TITLE

DATE

*JUL 14 1993

As of the date of this letter, we have not received a response to our questions; therefore, you are hereby notified that unless within 30 days from the date of this notice we receive the information requested, we will consider your application as having been abandoned by you. This action is without prejudice to the resubmission of an application.

If you have any questions, please feel free to contact me at (301) 504-2686.

Sincerely,

Original signed by:

Susan L. Greene
Medical, Academic, and Commercial
Use Safety Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material Safety
and Safeguards

DISTRIBUTION:

License File
IMAB r/f
IMNS Central File
NMSS r/f
SGreene
PVacca
JPiccone
JGlenn

OFC	IMAB:NMSS	C						
NAME	SGreene:cjb							
DATE	07/14/93							

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JUL 14 1993

Siemens Analytical X-Ray Instruments
ATTN: Mr. Brett A. Yeager
6300 Enterprise Lane
Madison, Wisconsin 53719-1173

Dear Mr. Yeager:

This concerns your request for a material license dated September 15, 1992, with application dated July 9, 1992, and our phone conversation of May 25, 1993, in which we notified you that your application is deficient and that certain additional information is required. At that time, it was my understanding that the additional information would soon be forthcoming.

During our discussion, it was also noted that there appears to be some confusion concerning general versus exempt distribution licenses. Please compare your license application package to the requirements as outlined in 10 CFR 32.18 for exempt distribution. While your application package should not contain any information or references concerning general licenses, it should specifically include the following information:

1. Provide a complete description of the process for 'sticking' the source to the rod, specifically addressing our concerns about the durability of this product.
2. Submit an example of the label to be used showing how the product meets the labelling requirements as outlined in 10 CFR 32.19.
3. List all points of distribution and provide a copy of the possession license for each location.
4. Section 32.19(d) specifies, in part, that a label, or brochure accompanying the source, provide appropriate safety precautions and instructions concerning handling, use, storage, and disposal. The information should discuss basic radiation safety and good laboratory practices, such as no eating, drinking, or smoking; time, distance and shielding; intended use; authorized users; waste disposal; and storage security. Please submit a copy of the product brochure provided to your customers showing how you meet the requirements as stated above.

CONVERSATION RECORD

TIME

DATE

5/25/93

TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING

OUTGOING

ROUTING

NAME/SYMBOL

INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, Dept., bureau, etc.)

TELEPHONE NO.

SUBJECT

Brett Yeager

Siemens Analytical

pending license application

SUMMARY

informed Mr. Yeager of problems w/ license application concerning:

1. lack of labelling of device
2. process of 'sticking' source to rod
3. Confusion concerning general vs exempt distribution products.
4. clarify points-of-distribution
- 5.

Requested that Mr. Yeager refer to 32.18 and his application and delete items that are too restrictive and unnecessary (like leak testing each source). Also requested info concerning above mentioned items.

ACTION REQUIRED

resubmitt info for license application

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Jean Greene

5/25/93

ACTION TAKEN

SIGNATURE

TITLE

DATE

⇒ also talked briefly about their
plant inspection

Telephone Record

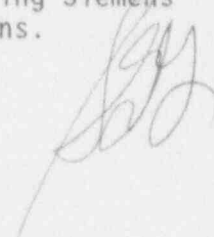
1/22/93 - spoke with Sue Engelhardt, consultant for Siemens Analytical X-Ray, concerning their request for a license

Ms. Engelhardt explained that they (Siemens) trim the check sources (mylar sheath) from Isotope Products to fit on the post and then the sources are attached to the posts with double-sided sticky tape. These sources or calibration devices are stored in an aluminum source cover and placed back into the original Isotope Products package with a product brochure for shipping. (It is my understanding that the label is placed on the source cover).

Ms. Engelhardt stated at one point that Siemens "...has been doing this for awhile".

contact at Siemens: Brent Yeager (608) 276-3075

Note: Siemens possession license no. 48-26435-01 authorizes iron-55 to be used for the licensee's instrument calibration only and was issued in 9/92. Memo dated March 9, 1993, from JEGlenn to RCaniano concerning Siemens requesting inspection of Siemens and other necessary actions.

A handwritten signature in dark ink, appearing to be 'JEG', is located in the lower right quadrant of the page.

OCT 06 1992

Engelhardt & Associates, Inc.
ATTN: Susan J. Engelhardt
President
2800 S. Fish Hatchery Road
Madison, WI 53711-5399

Gentlemen:

This refers to your letter dated September 15, 1992, for a Materials License for Siemens Analytical X-ray Instruments.

This request is subject to a fee of \$2,800 as specified in fee Category 3I of \$170.31, 10 CFR 170, which went into effect August 24, 1992. A copy of the July 23, 1992, Federal Register notice regarding the revisions to the Commission's license and annual fee regulations (10 CFR 170 and 10 CFR 171) is enclosed.


Payment of the \$2,800 fee should be made to the U.S. Nuclear Regulatory Commission and mailed to the following address:

U.S. Nuclear Regulatory Commission
ATTN: Sandra Kimberley
License Fee and Debt Collection Branch, OC/DAF
Mail Stop MNBB 4503
Washington, D.C. 20555

Your application will be forwarded to the Licensing staff for processing upon receipt of the fee. When submitting the fee, please refer to CONTROL NUMBER 021443.

If we do not receive a reply from you within 30 calendar days from the date of this letter, we shall assume that you do not wish to pursue your application and will void this action.

Sincerely,


Sandra Kimberley
License Fee and Debt Collection
Branch
Division of Accounting and Finance
Office of the Controller

Enclosure: July 23, 1992, Federal Register notice

cc: Susan Greene

EAIAPP.TXT

DISTRIBUTION

Pending Fee File, OC/DAF R/F, LFDCB R/F (2)

OFFICE:	OC/LFDCB	OC/LFDCB	OC/LFDCB
NAME:	BBrown	SKimberley	MMessier
DATE:	9/30/92	10/6/92	10/6/92

ENGELHARDT & ASSOCIATES, Inc.
Radiation Consultants

15 September, 1992

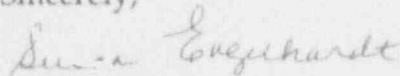
Mr. John Lubinski
United States Nuclear Regulatory Commission
Commercial Section
Medical, Academic, and Commercial Use Safety Branch
Division of Industrial and Medical Nuclear Safety
Office of Nuclear Material Safety and Safeguards
Washington, DC, 20555

Dear John:

Enclosed is an application for an exempt distribution license. We need to register these sources for exempt distribution. I had initially sent the application to Mr. John Madera in Region III. He spoke with Mr. Tom Rich of your office and it was decided that this needed to be processed through Washington.

The license for possession and use of the sources for calibration is already completed and that number is 48-26435-01. Please assign a control number to this application and let me know what the fees are so that we may remit them promptly. I appreciate your expeditious review of this application. If you have any questions, please feel free to call me. Thanks.

Sincerely,



Susan J. Engelhardt
President

RECEIVED
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
SEP 21 10 00 AM '92

REC'D SEP 18 1992

License Fee Information
on *file*

021443

APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
 DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY, NMSS
 WASHINGTON, DC 20545

ALL OTHER LICENSES FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
 NUCLEAR MATERIALS SAFETY SECTION 3
 475 ALLENDALE ROAD
 KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
 NUCLEAR MATERIALS SAFETY SECTION
 101 MARITIME STREET, SUITE 2000
 ATLANTA, GA 30322

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
 MATERIALS LICENSING SECTION
 199 ROOSEVELT ROAD
 GLEN ELLEN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
 MATERIAL RADIATION PROTECTION SECTION
 311 RYAN PLAZA DRIVE, SUITE 1000
 ARLINGTON, TX 79011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
 NUCLEAR MATERIALS SAFETY SECTION
 1460 MARIA LANE, SUITE 210
 WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

THIS IS AN APPLICATION FOR (Check appropriate item):
 A. NEW LICENSE
 B. AMENDMENT TO LICENSE NUMBER 030-32933
 C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code):
 Siemens Analytical X-Ray Instruments
 6300 Enterprise Lane
 Madison, WI 53719-1173

1. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED:
 This is an application for a distribution license for a generally licensed source.

3. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION: Susan Engelhardt, Engelhardt & Associates TELEPHONE NUMBER: 608-274-4227

SUBMIT ITEMS THROUGH TELETYPE OR FAX. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

1. RADIOACTIVE MATERIAL a. Isotopes and mass number b. Chemical and physical form and c. Maximum amount which will be possessed at any one time	4. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED
2. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE	5. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS
3. FACILITIES AND EQUIPMENT	10. RADIATION SAFETY PROGRAM
11. WASTE MANAGEMENT	12. LICENSE FEE (See 10 CFR 170 and Section 10.271) FEE CATEGORY: _____ AMOUNT ENCLOSED: \$ _____
13. CERTIFICATION: MUST BE COMPLETED BY APPLICANT. THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 3, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMANCE WITH TITLE 10 CODE OF FEDERAL REGULATIONS, PARTS 20, 22, 23, 24, 25, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1001 NOT OF JUNE 15, 1948, 32 STAT. 199 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.	

SIGNATURE—IDENTIFYING OFFICER: Brett A. Yeager TYPED/PRINTED NAME: Brett A. Yeager TITLE: ASSA QUALITY ENGR DATE: 7/9/92

FOR NRC USE ONLY

TYPE OF FEE: <u>APP</u>	FEE LOG: <u>Sept 1</u>	FEE CATEGORY: <u>SI</u>	COMMENTS: <u>Renewed Siemens</u>
AMOUNT RECEIVED: <u>2800</u>	CHECK NUMBER: <u>003634</u>		
APPROVED BY: <u>[Signature]</u>	DATE: <u>12/4/92</u>		

5. RADIOACTIVE MATERIAL

- | | | |
|-----|-----------------|--------------------------|
| 5a. | Radionuclide: | Fe-55 |
| 5b. | Physical Form: | Solid (Sealed Source) |
| 5c. | Manufacturer: | Isotope Products |
| | Model Number: | Type-M Series |
| | Max. Act/Source | 0.100 milliCuries/source |

6. PURPOSES FOR WHICH LICENSED MATERIAL WILL BE USED

The sealed sources shall be contained in Siemens Analytical X-ray equipment for purposes on producing soft X radiation, that will be used to calibrate the equipment. The source is used to flood an area, so as to calibrate a grid and correct out an image. Once this is accomplished, the source is removed from the unit.

7. INDIVIDUAL(S) RESPONSIBLE FOR THE RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE

This is not applicable for this application in that we are requesting only to distribute the material in our equipment.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

This is not applicable in that this application is for distribution only.

9. FACILITIES AND EQUIPMENT

This is not applicable in that this application is for distribution only.

10. RADIATION SAFETY PROGRAM

A. 32.51 Safety Design Features

(1) The device registration is included for the source
(Attachment One)

(2) Leak tests -

- Frequency: Each six months

- Procedure - Shall be done as specified in directions provided by a company certified to process leak tests. The leak test kits provided by the company that will process the leak tests.

021443

In addition, as part of the new user training, provided for Siemens Analytical X-Ray equipment, the customer shall be instructed in proper leak test procedures.

Wipe tests will be done by a lab certified by the NRC/Agreement State to do so. If the customer wishes to count their own leak tests, they must demonstrate that the NRC or an Agreement State has issued said customer a license to do so.

- (3) The diagram of the source as it is configured by Isotope Products is included in the device registration. The source, as configured by Siemens Analytical is included. The following changes have been made in order for the source to be utilized in the calibration of Siemens Analytical X-Ray equipment.

A72-018700 SOURCE/SOURCE HOLDER (Attachment Two) - This is the diagram of the source configuration as Siemens distributes it.

- (a) 268-003300: Shows the outline of the source holder as configured by Isotope Products. This demarcated area is removed and the remaining capsule and source are affixed to the source holder (058-001700 with sticky tape, manufactured by 3M Company.
- (b) SOURCE COVER (058-001800) - Attachment Two
When the source is not in use, the source/source holder are stored in the source cover. The source cover is made out of aluminum.

(4) Conditions of Use

No adverse conditions of use are anticipated.

- (a) Uses: The source will be used in Siemens Analytical X-Ray Equipment to flood an area, in order to calibrate a grid. Attachment Three shows the location of the source in the x-ray system. Once the grid is calibrated the source is removed from the x-ray system and stored in aluminum housing.
- (b) HANDLING/INTEGRITY OF SOURCE: The construction of the source is as described in the device registration and as modified per attachment two drawing.

Siemens has some sources in-house that are used in the configuration requested in this application. The sources are rugged and they hold up under conditions of use.

RADIATION EXPOSURE: No person can be expected to exceed the limits set forth below.

Whole body; head and trunk; active blood-forming organs; gonads; or lens of eye 0.5 rem

Hands and forearms, feet and ankles; localized areas of skin averaged over areas no longer than 1 square centimeter 7.5 rems

Other organs 3.0 rems

Siemens staff have used these sources extensively and have not received exposures attributable to the Fe-55 sources.

(5) Prototype Testing

As stated earlier, there is a device registration for this source.

(6) Drawings

See attachments

(7) Radiation Levels

See device registration

(8) Quality Assurance and Control Plan

- QA OF SOURCE MANUFACTURER - See the device registration.
- QA OF UNIT ASSEMBLY: The sources, in the configuration used for distribution to Siemens customers, does not alter the QA performed by the manufacturer. However, a leak test shall be performed, and processed by a lab licensed to do so, prior to shipment to customers.

If a source is found to be leaking, it will be sealed in plastic and put into a leak proof container. The source shall be returned to Isotope Products, for proper disposal.

Prior to shipment, each source shall be visually inspected for integrity of seals and source placement.

Each source shall be provided with a certificate to verify that a leak test has been performed and within six months of date for transfer. A copy of this leak test record shall accompany the source.

A certificate of assay will be provided by Isotope Products for each batch of sources ordered by Siemens. Siemens shall pass along a copy of this certificate to the customers.

(9) Labelling

Because the sources are so small, a caution radioactive material label shall be affixed to the source holder rather than the source. The source, source strength and caution radioactive material sign shall be affixed to the plastic box that is used for storage of the source.

In addition, each customer shall receive a copy of the following:

The receipt, possession, use, and transfer of this device Model _____ Serial No. _____, are subject to a general license or the equivalent and the regulations of the U.S. NRC or of a State with which the NRC has entered into an agreement for the exercise of regulatory authority. This label shall be maintained on the device in a legible condition. Removal of this label is prohibited.

Each customer shall receive an instruction sheet on how to install/remove the source from Siemens Analytical X-Ray equipment.

Each customer shall be instructed as to the six month leak test requirements. Siemens field service personnel or a Siemens engineer shall review installation procedures, leak test requirements and emergency procedures.

B. Information Furnished to General Licensees

- (a) Each customer shall receive a copy of the general license contained in 10 CFR 31.5, in NRC regulated States.
- (b) Each customer in an Agreement State shall receive a copy of the general license contained in the Agreement State's regulation equivalent to 10 CFR 31.5.

C. Transfer Reports

- (a) A report shall be provided to the Director of Nuclear Material Safety and Safeguards USNRC, Washington, DC 20555 on a quarterly basis (within 30 days after the end of each calendar quarter); a copy shall be sent to the appropriate regional office.

This report shall contain the following information.

- (1) Licensee Name
- (2) Address
- (3) Individual Contacts
- (4) Type and model number of device transferred
- (5) Quantity and type of byproduct material contained in each device

- (b) The information named in (a) above shall be sent to appropriate Agreement State agencies to comply with the agreement state equivalent of 10 CFR 31.5.

Records shall be kept of each licensee (name, address and point of contact) who receives a source under general license.

11. WASTE DISPOSAL

The general licensees shall return sources to Siemens Analytical. Siemens will then return sources to Isotope Products. The general licensee shall be informed as to whom he/she can transfer their general licensed items, as per 10 CFR 31.5 (8).

JAN 19 1989

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF SEALED SOURCE

(Amended in its entirety November 27, 1989)

NO.: CA406S111SDATE: April 02, 1973PAGE: 1 of 6SEALED SOURCE TYPE: Gamma Calibration SourceMODEL: XXXM Series (see description)MANUFACTURER/DISTRIBUTOR: Isotope Products Laboratories
1800 North Keystone Street
Burbank, CA 91504ISOTOPE: Any gamma emitterMAXIMUM ACTIVITY: 100 microcuriesLEAK TEST FREQUENCY: Six monthsPRINCIPAL USE: Calibration Sources (I)CUSTOM SOURCE: ___ YES X NO

021443

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF SEALED SOURCE

(Amended in its entirety November 27, 1989)

NO.: CA406S111S DATE: April 02, 1973 PAGE: 2 of 6

SEALED SOURCE TYPE: Gamma Calibration Source

DESCRIPTION:

The type M source consists of a deposited metal salt onto a mylar or kapton disc. This is dried and sealed with a self adhesive kapton disc, or alternatively the source is made by sandwiching a metal foil between two self adhesive kapton discs.

Source dimensions are 1" in diameter and 1/8" in height. The aluminized mylar and kapton discs are encased in an aluminum support ring to maintain source integrity.

LABELING:

The source is labeled in accordance with Section 30278 of the California Radiation Control Regulations (equivalent to 10 CFR 20.203).

DIAGRAM:

See Drawing No. 175-1, page 3.

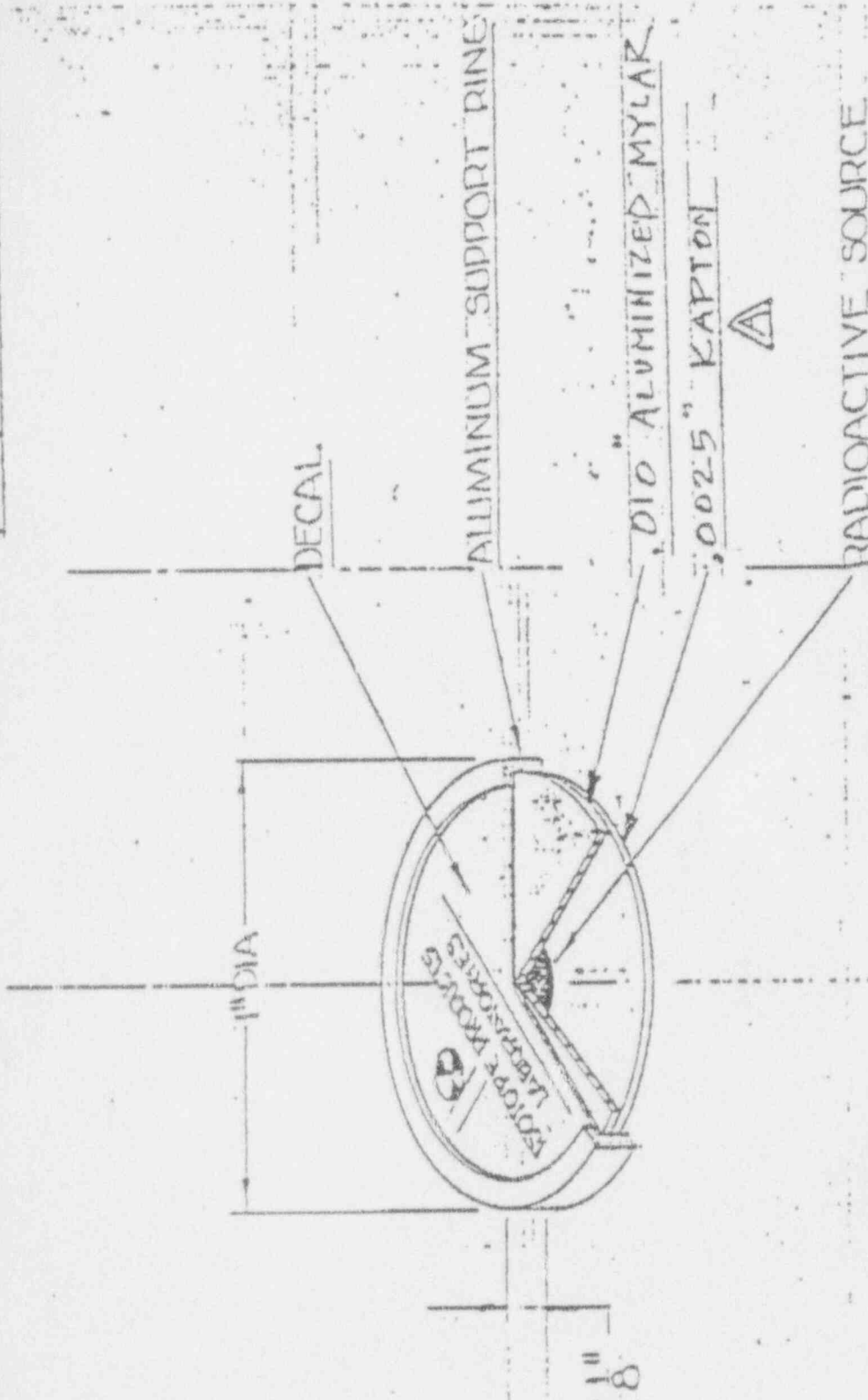
CONDITIONS OF NORMAL USE:

These gamma sources are designed for use in a laboratory environment for calibration of instruments.

PROTOTYPE TESTING:

Prototype tests have shown the type "M" sources pass the criteria for calibration sources (greater than 30 microcuries) and have been assigned a classification of ANSI 77C22212 in accordance with ANSI N.542, 1977.

CA 0025 KAPTON
APPED. 14 61



TYPE 'M' GAMMA SOURCE

ISOTOPE PRODUCTS LAB	
DATE 6.25.73	DRAWN BY RMIH
SCALE	REVISED
ASSEMBLY - ISOMETRIC	
TITLE GAMMA STD	NUMBER 175-1

ISOTOPE PRODUCTS LAB	DATE
APPROVED BY <i>[Signature]</i>	11/27/89
QC BY ASSEMBLER <i>[Signature]</i>	11/27/89
PRODIGER <i>[Signature]</i>	11/27/89

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF SEALED SOURCE

(Amended in its entirety November 27, 1989)

NO.: CA406S111S

DATE: April 02, 1973

PAGE: 4 of 6

SEALED SOURCE TYPE: Gamma Calibration Source

EXTERNAL RADIATION LEVELS:

Actual radiation levels will vary with isotope and activity level. As an example, a typical radiation level for 100 uCi of Co-60 is 5.7 mR/hr at a distance of 6". This was determined from the Radiologic Health Handbook, 1970, Page 131.

QUALITY ASSURANCE AND CONTROL:

The general QA/QC program for sealed source manufacturing is incorporated in the specific license of the manufacturer. It contains all procedures for verification of incoming materials of construction and their assembly. Each source is tested for activity and integrity as specified below:

- A. Activity: Held to $\pm 15\%$ of nominal value. Determined by assay of finished source.
- B. Radiopurity: Greater than 99% excluding daughter activity determined by gamma spectroscopy of original batch and finished source.
- C. Cleanliness: Each source is swabbed over its entire surface with a moistened filter paper which is dried and then assayed in a windowless proportional counter. The acceptance criteria is < 2220 DPM.

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE:

- A. These sources shall be distributed to specific licensees of the NRC or Agreement States.
- B. Storage: Store in cool, dry area in the original shielded container.
- C. Wipe Test: These sources shall be tested for leakage and/or contamination at intervals not to exceed six(6) months. Such tests shall be able to detect 0.005 microcuries of radioactive material, and be performed by specific licensees of the NRC or Agreement State.

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF SEALED SOURCE

(Amended in its entirety November 27, 1989)

NO.: CA406S111S

DATE: April 02, 1973

PAGE: 5 of 6

SEALED SOURCE TYPE: Gamma Calibration Source

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE: (Cont.)

- D. Cleaning: Use a tissue moistened with water and a little detergent. Rubbing alcohol may be used, if necessary, but avoid acetone and similar strong solvents.
- E. Disposal: Determined by licensing authority; decayed sources must be disposed of in accordance with licensee's disposal procedures.
- F. These sources should not be subjected to conditions exceeding those specified in ANSI 77C22212.
- G. This registration sheet and the information contained within the references shall not be changed without the written consent of the California Department of Health Services.

SAFETY ANALYSIS SUMMARY:

Based on our review of the information and test data cited below, we conclude the Model XCCM Series sources are acceptable for licensing purposes. They have passed the tests for calibration sources in accordance with ANSI N.542 (1977). Furthermore, this source design has been in use for several years without any known problems.

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF SEALED SOURCE

(Amended in its entirety November 27, 1989)

NO.: CA406S111S

DATE: April 02, 1973

PAGE: 6 of 6

SEALED SOURCE TYPE: Gamma Calibration Source

REFERENCES:

The following supporting documents for the Model XXXM Series are hereby incorporated by reference and made part of this registry document:

- A. Isotope Products Laboratories application dated September 6, 1989 (including QA/QC summary).
- B. Isotope Products Laboratories letter dated December 6, 1989.
- C. NBS Handbook No. 126, "ANSI N.542, Sealed Radioactive Sources, Classification", 1977.
- D. Radiologic Health Handbook, 1970, page 131.

DATE: 1/11/90

REVIEWED BY:

Trisha Edgerton
Trisha Edgerton

DATE: 1/11/90

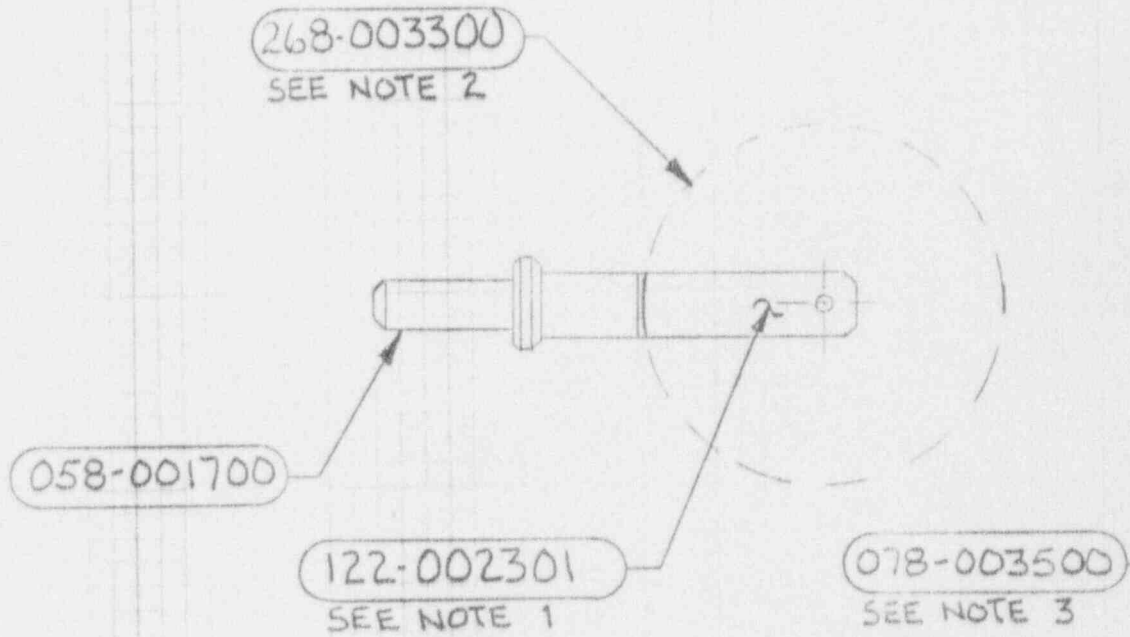
CONCURRENCE:

Ben Kapex
Ben Kapex

ISSUING AGENCY: California Department of Health Services

021443

- NOTES: 1) PLACE TAPE (122-0023XX) ON TO SOURCE HOLDER (058-0017XX). TRIM FLUSH TO SOURCE HOLDER WITH SHARP X-ACTO[®] KNIFE.
- 2) PEEL BACKING FROM TAPE (122-0023XX). CENTER THE AREA OF THE RADIATION SOURCE (268-0033XX) ON THE SPOT GIVEN ON THE SOURCE HOLDER (058-0017XX). TRIM TO SOURCE HOLDER WITH SHARP X-ACTO[®] KNIFE.
- 3) INSERT O-RING (078-0035XX) INTO SOURCE COVER (058-0017XX).



Rev	Date	ECN	Description of Change
-	4-29-92	1637	NEW DWG-
Revisions			

NEXT ASSY: 672-203100
882-200100

017XX),
KNIFE.
RADIOACTIVE
REFERENCE
IM FLUSH

3-0018XX).

B

ANSTEC
APERTURE
CARD

Also Available on
Aperture Card



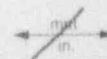
058-001800

9405260130-01

A

Break sharp corners, edges and remove burrs

Scale: NTS.



Drawing conforms to ANSI Y14.5M Do not scale drawing Screw threads per Military Standard - 9 Abbreviations per Military Standard - 12 Welding symbols per American Welding Standard A2.0 Tolerance unless otherwise specified <table border="1"> <thead> <tr> <th>Metric</th> <th>Inches</th> </tr> </thead> <tbody> <tr> <td>X ± .8</td> <td>XX ± .03</td> </tr> <tr> <td>XX ± .13</td> <td>XXX ± .005</td> </tr> <tr> <td>XXX ± .013</td> <td>XXXX ± .0005</td> </tr> <tr> <td>ANG ± 1/2°</td> <td>ANG ± 1/2°</td> </tr> </tbody> </table>	Metric	Inches	X ± .8	XX ± .03	XX ± .13	XXX ± .005	XXX ± .013	XXXX ± .0005	ANG ± 1/2°	ANG ± 1/2°	Material LISTED ABOVE	Finish NONE
	Metric	Inches										
	X ± .8	XX ± .03										
	XX ± .13	XXX ± .005										
XXX ± .013	XXXX ± .0005											
ANG ± 1/2°	ANG ± 1/2°											
Title ASSY/DETECTOR CALIBRATION FIXTURE												
Drawn B. YEAGER	Date 4-29-92	Chgd Jim Buechner										
Part No. 472-018700	Rev —	Date June 4, 1992										
By Chkd	Size B	Sheet 1 of 1										
This document contains confidential or proprietary information of Siemens Analytical X-Ray Instruments, Inc. Neither this document nor the information herein is to be reproduced, distributed, used, or disclosed, either in whole or in part except as specifically authorized by Siemens Analytical X-Ray Instruments, Inc.												
SIEMENS Siemens Analytical X-Ray Instruments, Inc. Madison, Wisconsin 53719-1173												

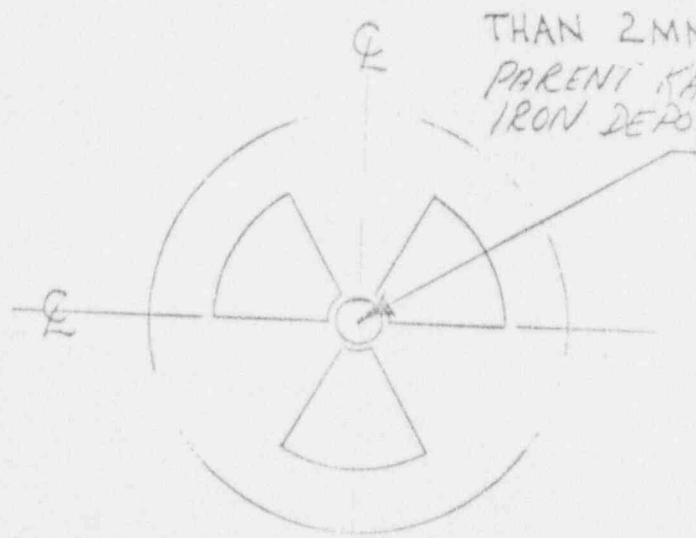
DESCRIPTION: SOURCE/RADIATION 100 μ C

PART NO.: 268-003300
QUANTITY: EA.

SOURCE/RADIATION
FE 55
100 MICROCURIES

NOTE:

SPECIFY - DIAMETER OF RADIOACTIVE AREA ON SOURCE HOLDER TO BE LESS THAN 2MM DIA., COVER WITH TRANSPARENT KAPTON - MUST BE ABLE TO SEE IRON DEPOSIT.



CONCENTRATE FE55 RADIOACTIVE MATERIAL IN A 2MM DIA. OR LESS AREA WITHIN THE CENTER OF THE 3.6MM DIA. SOURCE HOLDER CENTER.

MANUFACTURER:
ISOTOPE PRODUCTS LABORATORIES
1800 NORTH KEYSTONE ST.
BURBANK, CALIFORNIA

MANUFACTURER'S NUMBER:
IPL # 8829

91504
Tele. 818-843-7000
RON MAGID

CERTIFICATION REQUIRED:

UL YES NO
BRH CERT. YES NO

ENGR: DICK MAKSH

ONLY
ALTERNATE
EQUIVALENT

REV	DATE	ECN	REVISION DESCRIPTION	BY	CHK
-	5-21-87	-	- NEW DWG -	BY	
A	2-17-88	6719	Vendor Has GRIMMA INDUSTRIES	JK	
"	"	"	MANUF # 802-8584-101	JK	
00	5-7-89	1267	PRD. WAS B7-000-086 ADD NOTE - "Cover with..."	JK	

SIRYEN!

NICOLET XRD SPECIFICATION

TITLE: SOURCE/RADIATION
FE55-100 μ C

DATE	PART NUMBER	REV
5/21/87	268-003300	00

Attachment 2



ISOTOPE PRODUCTS LABORATORIES

1800 NORTH KEYSTONE ST.
(818) 843-7000BURBANK, CA. 91504
FAX (818) 843-6168

Nominal Source Data Sheet

Customer: *Siemens Analytical* P.O. No. *768519*

Date:

*June 21, 1990*Catalog No. *IPL # 8829*Quantity: *10*Capsule Type: *Kapton Sandwich*Nature of Active Deposit: *Evaporated Metallic Salts*Active Diameter/Weight: *2 mm*ANSTEC
APERTURE
CARDBacking: *9.23 mg/cm² Kapton*Also Available on
Aperture CardCover: *9.23 mg/cm² Kapton*

Isotope

Source No.

Activity

Date

*Fe-55**354-98-11**100 μ h**June 15, 1990**2mm**each**354-98-20*Remarks: *Leak test cert. attached*

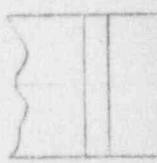
9405260130-02

4

3

B

A



Ø

Ø.1245 ^{+0.0000}/_{-.0005}

R.015 MAX

Ø.250

3X.03X45°

.01X45° TYP

.06

.25

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00	10-15-91	1637	NEW DWG
Rev	Date	ECN	Description of Change
Revisions			

MASTER BLUE PRINT INC

527880

4

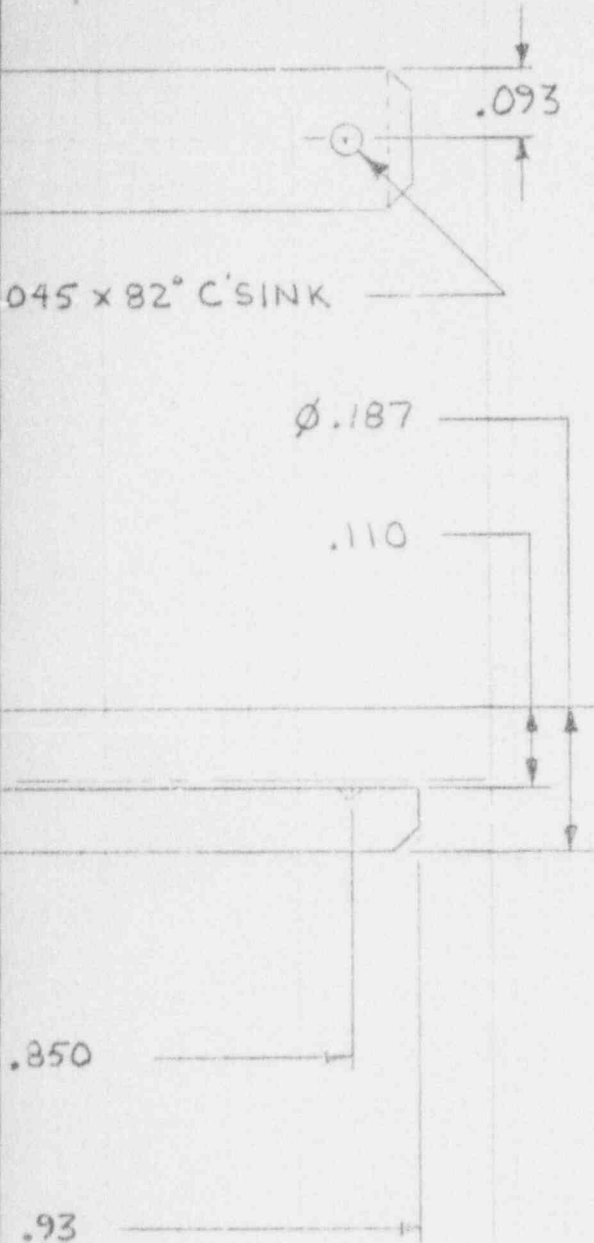
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2

1

NEXT ASSEMBLY: 472-018700

Attachment 2



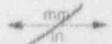
ANSTEC APERTURE CARD

Also Available on Aperture Card

9405260130-03

Break sharp corners, edges and remove burrs

Scale: 4:1



Drawing conforms to ANSI Y14.5M Do not scale drawing Screw threads per Military Standard - 9 Abbreviations per Military Standard - 12 Welding symbols per American Welding Standard A2.0	Material 303/304/316 SST		Finish NONE	
	Title HOLDER/IRON SS SOURCE			
Tolerance unless otherwise specified				
Metric		Inches		
X ± .8	XX ± .010			
XX ± .13	.XXX ± .001			
.XXX ± .013	.XXX ± .0005			
ANG ± 1/2°	ANG ± 1/2°			
Surface finish $\sqrt{32}$		Surface finish $\sqrt{32}$		
By <i>J.B.</i>	Chkd	Drawn B. YEAGER	Date 10-15-91	Chkg Jim Buechner
		Part No. 058-007		Rev 00
				Sheet 1 of 1
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2

1

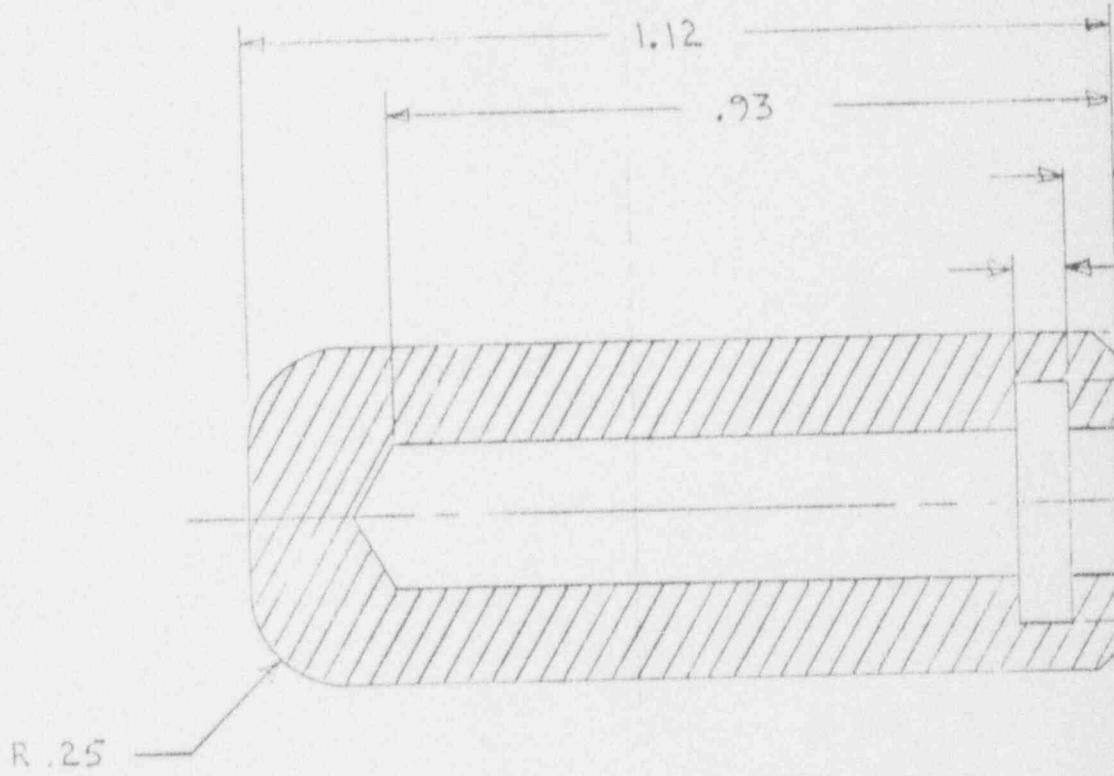
021443

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R .25

1.12

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Rev	Date	ECN	Description of Change
00	4-10-92	1637	- NEW DWG -
Revisions			

MASTER BLUE PRINT INC

527880

4

3

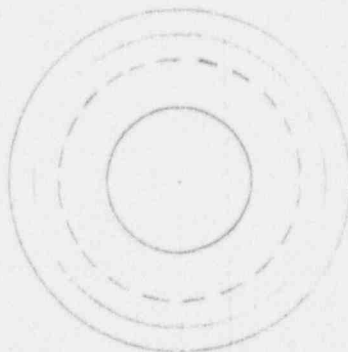
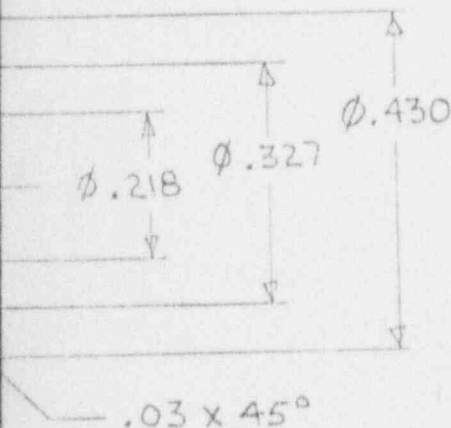
NEXT ASSY: 472-018700

ATTACHMENT 2

B

.062

.080 ^{+0.005}
-.000



ANSTEC
APERTURE
CARD

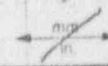
Also Available on
Aperture Card

9405260130-04

A

Break sharp corners, edges and remove burrs

Scale: 4:1



Drawing conforms to ANSI Y14.5M
 Do not scale drawing
 Screw threads per Military Standard - 9
 Abbreviations per Military Standard - 12
 Welding symbols per American Welding Standard A2.0

Material 6061-T6 ALUM.

Finish NONE

Title

COVER/IRON 55 SOURCE HOLDER

Tolerance unless otherwise specified

Metric

Inches

X ± .8

XX ± .03

XX ± .13

XXX ± .005

XXX ± .013

XXXX ± .0005

ANG ± 1/2°

ANG ± 1/2°

H

32

Surface finish ✓

Surface finish ✓

Drawn B. YEAGER

Date 4-10-92

Chkd Jim Buechner

Date

June 4, 1992

Part No.

058-0018

Rev
00

Sheet
1 of 1

By J.B.
Chkd

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Size
B

SIEMENS

Siemens Analytical X-Ray Instruments, Inc.
 Madison, Wisconsin 53719-1173

1st class
10/20/92

R1201021

LICENSING TRACKING SYSTEM

DATE: 920918
PAGE: 1

LTS WORKSHEET

DOCKET NO : 03032933 LICENSE NO : _____ STATUS: 3
 MAIL CONTROL: 021443 RECEIPT DATE : 920918 ACTION TYPE: 1
 DUE DATE : 921217
 FED. GOVT : N INST. CODE : 26435 LICENSE REGION: 0
 ISSUE DATE: _____ ORIGINAL DATE: _____ EXPIRATION DATE: _____
 NAME : SIEMENS ANALYTICAL X-RAY DECOM FIN ASSUR REQD: _
 SUBM: _
 DEPT/BUREAU: INSTRUMENTS CONT PLAN REQD: _ APPRV: _
 BUILDING : _____
 STREET : 6300 ENTERPRISE LANE
 CITY : MADISON STATE: WI ZIP: 537191173
 CONTACT PERSON: BRETT A. YEAGER PHONE: _____

PRIMARY PGM CODE : _____ SECONDARY PGM CODES: _____
 INSPECTION REGION: 3 PRIORITY CODE: _ INSPECTION CATEGORY: _
 RADIATION SAFETY OFFICER: _____

STATES WHERE USE IS AUTHORIZED: _
 0 - ALL LISTED STATES
 1 - SAME AS STATE IN ADDRESS
 2 - ALL STATES
 3 - NON-AGREEMENT STATES
 AUTHORIZED STATES: _____ (USE ONLY IF ABOVE IS ZERO)

REPORTING IDENTIFICATION SYMBOL: _____
 APPROVAL FOR: REDISTRIBUTION STORAGE ONLY:
 TEMPORARY JOB SITES INCINERATION:
 BURIAL:

EXEMPTIONS: (1) _____ (2) _____

4/24/93 CB

POSSESSION LIMIT INFORMATION

MATERIAL TYPE	_____	FORM CODE: _____	AGGREGATE CODE: _____
MODEL NUMBER	_____		
DESCRIPTION	_____		
TOTAL QUANTITY	_____	UNIT: _____	
OTHER	_____	# SOURCES: _____	
MATERIAL TYPE	_____	FORM CODE: _____	AGGREGATE CODE: _____
MODEL NUMBER	_____		
DESCRIPTION	_____		
TOTAL QUANTITY	_____	UNIT: _____	
OTHER	_____	# SOURCES: _____	
MATERIAL TYPE	_____	FORM CODE: _____	AGGREGATE CODE: _____
MODEL NUMBER	_____		
DESCRIPTION	_____		
TOTAL QUANTITY	_____	UNIT: _____	
OTHER	_____	# SOURCES: _____	
MATERIAL TYPE	_____	FORM CODE: _____	AGGREGATE CODE: _____
MODEL NUMBER	_____		
DESCRIPTION	_____		
TOTAL QUANTITY	_____	UNIT: _____	
OTHER	_____	# SOURCES: _____	
MATERIAL TYPE	_____	FORM CODE: _____	AGGREGATE CODE: _____
MODEL NUMBER	_____		
DESCRIPTION	_____		
TOTAL QUANTITY	_____	UNIT: _____	
OTHER	_____	# SOURCES: _____	
MATERIAL TYPE	_____	FORM CODE: _____	AGGREGATE CODE: _____
MODEL NUMBER	_____		
DESCRIPTION	_____		
TOTAL QUANTITY	_____	UNIT: _____	
OTHER	_____	# SOURCES: _____	

NAME

AUTHORIZATION

_____	_____
_____	_____
_____	_____

ADDRESS WHERE MATERIAL IS USED OR POSSESSED

BUILDING: _____	_____
ROOM: _____	_____
STREET: _____	_____
CITY: _____	_____
STATE: _____	_____

BUILDING: _____	_____
ROOM: _____	_____
STREET: _____	_____
CITY: _____	_____
STATE: _____	_____

BUILDING: _____	_____
ROOM: _____	_____
STREET: _____	_____
CITY: _____	_____
STATE: _____	_____

BUILDING: _____	_____
ROOM: _____	_____
STREET: _____	_____
CITY: _____	_____
STATE: _____	_____

BUILDING: _____	_____
ROOM: _____	_____
STREET: _____	_____
CITY: _____	_____
STATE: _____	_____

BUILDING: _____	_____
ROOM: _____	_____
STREET: _____	_____
CITY: _____	_____
STATE: _____	_____

BUILDING: _____	_____
ROOM: _____	_____
STREET: _____	_____
CITY: _____	_____
STATE: _____	_____

BUILDING: _____	_____
ROOM: _____	_____
STREET: _____	_____
CITY: _____	_____
STATE: _____	_____

DOCKET: 03032933 LIC: _____ NAME: SIEMENS ANALYTICAL X-RAY

PARTY ISSUING MECHANISM:	ASSUR TYPE : - (C=CERT D=DFP)
NAME _____	MECH TYPE _____
ADDR1 _____	MECH AMOUNT: _____
ADDR2 _____	APPROVED? - DATE: _____
CITY _____	EXPIRES ? - DATE: _____
STATE: _____ ZIP: _____	

PARTY ISSUING MECHANISM:	ASSUR TYPE : - (C=CERT D=DFP)
NAME _____	MECH TYPE _____
ADDR1 _____	MECH AMOUNT: _____
ADDR2 _____	APPROVED? - DATE: _____
CITY _____	EXPIRES ? - DATE: _____
STATE: _____ ZIP: _____	

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ADDR2 _____	APPROVED? - DATE: _____
CITY _____	EXPIRES ? - DATE: _____
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PARTY ISSUING MECHANISM:	ASSUR TYPE : - (C=CERT D=DFP)
NAME _____	MECH TYPE _____
ADDR1 _____	MECH AMOUNT: _____
ADDR2 _____	APPROVED? - DATE: _____
CITY _____	EXPIRES ? - DATE: _____
STATE: _____ ZIP: _____	

LICENSE DATA, CONTINUED

PAGE: 5

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DOCKET NO: 03032933 LICENSE NUMBER: _____

NAME : SIEMENS ANALYTICAL X-RAY

MEDICAL QUALITY MANAGEMENT PROGRAM REQUIRED: N RECEIVED: _ APPROVED: _

DECOMMISSIONING FINANCIAL ASSURANCE REQUIRED: _ SUBMITTED: _

CONTINGENCY PLAN REQUIRED: _ APPROVED: _

DECAY-IN-STORAGE APPROVED: N HOLDING FOR < 10 HALF-LIVES APPROVED: _

T 1/2 > 65 DAYS, ISOTOPE(S): _____

INTERIM STORAGE UP TO 1996: N

=====

1st due 1/8/92

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: _____
Status Code: 3
Fee Category: _____
Exp. Date: 0
Fee Comments: _____
Decom Fin Assur Req'd: _____

LICENSE FEE TRANSMITTAL

A. REGION HQ

1. APPLICATION ATTACHED
Applicant/Licensee: SIEMENS ANALYTICAL X-RAY
Received Date: 320918
Doc No: 3032932
Contract No: 021443
License No: _____
Accession Type: New License

2. FEE ATTACHED
Amount: _____
Check No: /

3. COMMENTS

Signed M. Moriarty
Date 9-21-92

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered)

1. Fee Category and Amount: 3I 2800

2. Correct Fee Paid. Application may be processed for:
Amendment _____
Renewal _____
License /

3. OTHER _____

Signed B. Brown
Date 9-24-92

Per M. Lamstra,
does not require
a SSOP however.

please
call