



P.O. Box 20
Lewisburg, PA 17837-0020

(717) 524-2281
FAX: (717) 524-8447

030-32156
03/20

Director U.S. Nuclear Regulatory Commission Region 1
Nuclear Materials Safety Section B
475 Allendale Road
King of Prussia, PA 19406

March 12, 1991

Dear Sir:

I am enclosing NRC Form 313 as an application for a material license and a check for \$400.00 as an application fee.

Veratec manufactures nonwoven materials. The LFE and Accuray radiation gauges are used to measure and control the thickness of these materials. The radiation gauge consists of a source housing and detector housing placed on opposite sides of the material. Veratec wishes to perform minor maintenance of the gauges. This maintenance consists of replacement of the external window on the source housing and detector housing of the gauges and a check of shutter and indicator operation on the gauges. Other maintenance involves both electrical and mechanical troubleshooting around the source housings. However, at no time will Veratec, Lewisburg personnel either enter or alter the integrity of the source housing.

Veratec operates on a 24 hour per day, 7 day per week schedule. When minor maintenance such as external window replacement is required, it is necessary to stop operations and to wait for the manufacturer's service person to arrive. The down-time amounts to at least several hours and can be one to two days. This down-time represents lost production and substantial financial losses for Veratec. The maintenance procedures to be performed by Veratec on the gauges are relatively simple to perform and are well within the capabilities of Veratec staff. The staff has been trained in these procedures by LFE Corporation. With personnel of Veratec performing this minor maintenance, downtime due to window replacement, etc. will be reduced to less than an hour. Detailed written procedures are included with this application. The amount of time spent by Veratec staff in performing window changes, and shutter and indicator checks will be very small. It is estimated that no staff member will spend more than ten hours per year on the activities.

114125

OFFICIAL RECORD COPY ML 10

INTERNATIONAL PAPER company

License Fee Information
on Application

0/15

APR 01 1991



P.O. Box 20
Lewisburg, PA 17837-0020

(717) 524-2281
FAX: (717) 524-8447

If I can assist in any way or if you require additional information, please contact me.

Very Truly Yours

A handwritten signature in cursive script that reads 'Jeffrey W. Foss'.

Radiation Safety Officer

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, NMIS
WASHINGTON, DC 20545

ALL OTHER PERSONS 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 B
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 MARIETTA STREET, SUITE 2800
ATLANTA, GA 30333

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
799 ROOSEVELT ROAD
GLEN ELLYN, 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
811 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
1450 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.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER _____

C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

Veratec
P.O. Box 20
Rt. 15N, & Hafer Road
Lewisburg, PA 17837

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

Veratec
P.O. Box 20
Rt. 15N, & Hafer Road
Lewisburg, PA 17837

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Jeffrey Wayne Loss

TELEPHONE NUMBER (717) 224-2288

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.
9. FACILITIES AND EQUIPMENT.	10. RADIATION SAFETY PROGRAM.
11. WASTE MANAGEMENT.	12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) 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 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 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 ACT OF JUNE 25, 1948, 62 STAT. 749 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—CERTIFYING OFFICER <i>Jeffrey Wayne Loss</i>	TYPED/PRINTED NAME Jeffrey Wayne Loss	TITLE Senior Maintenance Engineer	DATE 3/13/91
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FOR NRC USE ONLY

TYPE OF FEE APP	FEE LOG Apr. 18 th	FEE CATEGORY 3P	COMMENTS
AMOUNT RECEIVED \$ 500.00	CHECK NUMBER 6344	114425	
APPROVED BY <i>[Signature]</i>	DATE 4/23/91		

5. RADIOACTIVE MATERIAL

- (a)
 - 1. Krypton-85
 - 2. Krypton-85
 - 3. Strontium-90

- (b)
 - 1. Sealed source, LFE Model S-70A
 - 2. Sealed Source, Accuray Model TLK-5
 - 3. Sealed Source, Accuray Model TLK-8

- (c)
 - 1. No single source to exceed 1200 millicuries
 - 2. No single source to exceed 500 millicuries
 - 3. No single source to exceed 70 millicuries

6. PURPOSE FOR WHICH RADIOACTIVE MATERIAL WILL BE USED

- 1. To be used in LFE device model SCL-77A or SU-P77A for the measurement of thickness of nonwoven material.
- 2. To be used in Accuray device model TLK-5 for the measurement of thickness of nonwoven material.
- 3. To be used in Accuray device model TLK-8 for the measurement of thickness of nonwoven material.

7. INDIVIDUALS RESPONSIBLE FOR RADIATION SAFETY PROGRAM

Jeffrey W. Loss (resume attached)
J. Ernest Rogers (resume attached)
Scott D. Neuhard (resume attached)

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

These individuals receive the LFE mini-course. This course includes a review of Regulatory Guide 8.29 and each person receives a copy of this Regulatory Guide.

9. FACILITIES AND EQUIPMENT

Brief sketch of plant showing location of gauges.

10. RADIATION SAFETY PROGRAM

- (a) The Radiation Safety Officer for the activities at Veratec will be Jeffrey W. Loss.
- (b) Minor maintenance activities will be performed by, or under, the supervision and in the physical presence of J. Ernest Rogers, Scott D. Neuhard, or Jeffrey W. Loss.
- (c) The sealed sources containing licensed material will not be opened or removed from the gauges by Veratec personnel.
- (d) Installation, initial radiation survey, relocation, removal from service, replacement, and disposal of sealed sources will be performed by the manufacturer or by persons specifically licensed by the NRC or an agreement state to perform such services.

- (e) Persons who have completed the LFE training course will be authorized to perform source housing and detector housing window replacements on the LFE and Accuray gauges. Other jobs include shutter and indicator verification and mechanical and electrical troubleshooting (no individual will be allowed to enter the source housing).
- (f) The LFE and Accuray devices will receive safety performance testing at intervals not to exceed six months. Testing will consist of a check of proper shutter and indicator operation. The Radiation Safety Officer will maintain records of these tests.
- (g) Leak testing of the Strontium-90 source will be done at intervals not to exceed six months. The Radiation Safety Officer will maintain records of the tests.
- (h) A physical inventory will be conducted at periods not to exceed six months to account for all sources and devices possessed by Veratec. The date and the name of the person conducting the inventory will be recorded. Records will be maintained by the Radiation Safety Officer for a period of at least two years from the date of each inventory.
- (i) Emergency procedures as outlined in the document entitled "Emergency Procedures" will be followed.

11. WASTE MANAGEMENT

The possession and use of radiation gauges for the measurement of the thickness of nonwoven material generates no radioactive waste. When the sealed sources are no longer required, they will be returned to the device manufacturer.

APR 01 1991

Jeffrey W. Loss
Radiation Safety Officer
Veratec/ International Paper
P.O. Box 20
Rt. 15 and Hafer Road
Lewisburg, Pa. 17837

Background:

- * April, 1988 - Present
Held the position of Maintenance Electrical Engineer and
Radiation Safety Officer for the Veratec, Lewisburg facility.
- * November 6 & 7, 1990
2 day LFE mini course in Radiation technology and safety
(certificate attached). This course was taught by Bill
Prendergast, LFE Radiation Safety Officer.
- * September, 1990 - October, 1990
Conducted Radiation safety training to all employees at the
Veratec, Lewisburg facility. This training dealt mainly with the
LFE and Accuray systems.
- * February, 1987
5 day LFE maintenance and safety course for the LFE Profitmaster
5001.
- * Fall Semester, 1984
3.0 credit hours in Quantum Physics at the Pennsylvania State
University.

If you have any further questions or concerns, please contact me
at (717) 524-2281, Ext. 458.

J. ERNEST ROGERS
INSTRUMENT TECHNICIAN
INTERNATIONAL PAPER CO. / VERATEC
P.O. BOX 20
RT. 15 AND HAFFER ROAD
LEWISBURG PA. 17837

BACKGROUND

- * MAY 1980 - PRESENT
HOLD POSITION OF ACCURAY CERTIFIED SERVICE TECHNICIAN
WITH INTERNATIONAL PAPER CO. LEWISBURG PA.

- * NOVEMBER 6-7, 1990
2 DAY LFE MINI COURSE IN RADIATION TECHNOLOGY AND SAFETY
CERTIFICATE ATTACHED. THIS COURSE WAS TAUGHT BY BILL
PENDERGAST, LFE RADIATION SAFETY OFFICER.

- * APRIL/MAY, 1980
ACCURAY 4 WEEK COURSE IN THE MAINTENANC OF MICRO 100
SYSTEMS. ACCURAY CORP. COLUMBUS OH.

- * JUNE 6-11, 1982
LFE 5 DAY COURSE IN THE MAINTENANCE OF LFE PROFITMASTER
5000 SYSTEMS. LFE CORP. WALTHAM MASS.

- * JAN. 16-20, 1984
5 DAY CLASS IN ACCURAY FLEX MODULE USAGE.
ACCURAY SUFIELD CT.

- * JULY 1986
5 DAY COURSE IN THE MAINTENANCE OF LFE PROFITMASTER 5001
SYSTEMS LFE CORP. CLINTON MASS.

- * 1968
CERTIFICATE FROM INTERNATIONAL CORR. SCHOOL
SCRANTON PA.
INDUSTRIAL ELECTRICAL TECHNOLOGY

Scott D. Neuhard
Instrument Electrician
Veratec/International Paper
P.O. Box 20
Rt. 15 and Hafer Road
Lewisburg, PA 17837

Background:

- Dec. 1980-Present
B-Specialist, Instrument Electrician
Veratec/International Paper, Lewisburg, PA 17837
- Nov. 1990
2 day mini course in Radiation Technology(certificate
attached)
William R. Prendergast, Radiation Safety Officer, LFE Corp.
- Oct. 1983
4 week course in maintenance of Accuray Micro 100 system
Accuray Corp., Columbus, OH
- Apr. 1982
5 day course in maintenance of LFE Profitmaster 5001 system
LFE Corp., Clinton, Mass.
- May 1976
Associate Degree, Electrical Engineering Technology
Pennsylvania State Univ., York Campus, York, PA



CERTIFICATE



THIS IS TO CERTIFY THAT

J. ERNEST ROGERS

SUCCESSFULLY COMPLETED A 16 HOUR COURSE IN RADIATION TECHNOLOGY. SUBJECTS INCLUDED WERE:

STRUCTURE OF THE ATOM
THE ELEMENTS
PRINCIPLES OF RADIOACTIVITY
PRODUCTION OF X-RAYS
CHARACTERISTICS OF RADIOISOTOPES
INTERACTION WITH MATTER
RADIOACTIVE DECAY
UNITS OF RADIOACTIVITY
DESIGN OF RADIOACTIVE SOURCES
DETECTION OF RADIATION
DETECTION STATISTICS
COUNTING EFFICIENCY
PRINCIPLES OF RADIATION GAUGING

GEIGER TUBE SURVEY METER
UNITS OF RADIATION EXPOSURE
ION CHAMBER SURVEY METER
LICENSING
NRC AND AGREEMENT STATES
SOURCE CHECKING
PROTECTION AGAINST RADIATION
BIOLOGICAL EFFECTS OF RADIATION
RADIATION SAFETY OFFICER
TRANSPORTATION OF RADIOACTIVE MATERIAL
CALIBRATION OF SURVEY METERS
EMERGENCY PROCEDURES
REPORTING INCIDENTS

PRESENTED AT:

VERATEC
Lewisburg, Pennsylvania

November 6 and 7, 1990

William R. Prendergast

William R. Prendergast
Radiation Safety Officer
LFE Corporation



CERTIFICATE



THIS IS TO CERTIFY THAT SCOTT D. NEUHARD

SUCCESSFULLY COMPLETED A 16 HOUR COURSE IN RADIATION TECHNOLOGY. SUBJECTS INCLUDED WERE:

STRUCTURE OF THE ATOM
THE ELEMENTS
PRINCIPLES OF RADIOACTIVITY
PRODUCTION OF X-RAYS
CHARACTERISTICS OF RADIOISOTOPES
INTERACTION WITH MATTER
RADIOACTIVE DECAY
UNITS OF RADIOACTIVITY
DESIGN OF RADIOACTIVE SOURCES
DETECTION OF RADIATION
DETECTION STATISTICS
COUNTING EFFICIENCY
PRINCIPLES OF RADIATION GAUGING

GEIGER TUBE SURVEY METER
UNITS OF RADIATION EXPOSURE
ION CHAMBER SURVEY METER
LICENSING
NRC AND AGREEMENT STATES
SOURCE CHECKING
PROTECTION AGAINST RADIATION
BIOLOGICAL EFFECTS OF RADIATION
RADIATION SAFETY OFFICER
TRANSPORTATION OF RADIOACTIVE MATERIAL
CALIBRATION OF SURVEY METERS
EMERGENCY PROCEDURES
REPORTING INCIDENTS

PRESENTED AT:

VERATEC
Lewisburg, Pennsylvania

November 6 and 7, 1990

William R. Prendergast
Radiation Safety Officer
LFE Corporation



CERTIFICATE



THIS IS TO CERTIFY THAT

JEFFREY W. LOSS

SUCCESSFULLY COMPLETED A 16 HOUR COURSE IN RADIATION TECHNOLOGY. SUBJECTS INCLUDED WERE:

STRUCTURE OF THE ATOM
THE ELEMENTS
PRINCIPLES OF RADIOACTIVITY
PRODUCTION OF X-RAYS
CHARACTERISTICS OF RADIOISOTOPES
INTERACTION WITH MATTER
RADIOACTIVE DECAY
UNITS OF RADIOACTIVITY
DESIGN OF RADIOACTIVE SOURCES
DETECTION OF RADIATION
DETECTION STATISTICS
COUNTING EFFICIENCY
PRINCIPLES OF RADIATION GAUGING

GEIGER TUBE SURVEY METER
UNITS OF RADIATION EXPOSURE
ION CHAMBER SURVEY METER
LICENSING
NRC AND AGREEMENT STATES
SOURCE CHECKING
PROTECTION AGAINST RADIATION
BIOLOGICAL EFFECTS OF RADIATION
RADIATION SAFETY OFFICER
TRANSPORTATION OF RADIOACTIVE MATERIAL
CALIBRATION OF SURVEY METERS
EMERGENCY PROCEDURES
REPORTING INCIDENTS

PRESENTED AT:

VERATEC
Lewisburg, Pennsylvania

November 6 and 7, 1990

William R. Prendergast
Radiation Safety Officer
LFE Corporation

RADIATION SAFETY OFFICER

The following outlines the duties and responsibilities of the Radiation Safety Officer at Veratec. The Radiation Safety Officer shall:

1. Maintain the license issued by the US Nuclear Regulatory Commission in current condition by means of amendments and renewals.
2. Assure that the radioactive material possessed by Veratec conforms to the material authorized by the license.
3. Assure that the activities authorized by the license are performed by or supervised by and in the physical presence of persons authorized by the license.
4. Assure that the gauges are properly secured against unauthorized removal.
5. Assure that the gauges are transported in compliance with the applicable regulations of the U.S. Department of Transportation.
6. Serve as a point of contact with the US Nuclear Regulatory Commission in case of an emergency such as fire.
7. Assure that the proper authorities are notified in case of an emergency.
8. Assure that the terms and conditions of the license are met and that required records are maintained and periodically reviewed for compliance with regulations of the US Nuclear Regulatory Commission and with license conditions.

RADIATION SAFETY PROCEDURE

In order to protect the health of individuals working with ionizing radiation, exposure to radiation must be kept as low as possible. The basic concepts of radiation safety involve time, distance, and shielding. Time must be minimized and distance and shielding maximized to achieve the objectives of radiation safety. Therefore, when employees of Veratec are performing on the LFE and Accuray gauges the activities authorized by the US Nuclear Regulatory Commission license, the following safety procedures must be observed.

1. Report to the Radiation Safety Officer that you will be performing a particular activity.
2. For replacement of a device window, the device must be in the "off-sheet" position. Check that the green light is illuminated indicating that the shutter is closed. Do not proceed until the green light is illuminated. Turn the power off.
3. For replacement of a detector housing window, remove the detector housing from the frame and move it to a location at least five (5) feet from the source housing to perform the window replacement.
4. For replacement of the source housing window, remove the detector housing from the frame and place it in a secure location. Access to the source housing window is now permitted.
5. For window replacement procedure refer to the document entitled "Device Window Replacement".
6. The shielding is built into the LFE and Accuray device and additional shielding is not required. However, the worker has some control over time and distance. Keep exposure time to a minimum by having all materials and tools available before starting the job. Work quickly and efficiently. Maintain the maximum distance consistent with performing the job.
7. For shutter and indicator checks it is necessary to approach the device only briefly to observe the red and green flags. A flashlight will facilitate the procedure.
8. When the activity is complete, report to the Radiation Safety Officer with the serial number and location of the device along with the date and amount of time spent on the activity.

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Device Window Replacement

A. Source Housing Window Replacement

1. The window on the source housing is replaced from the outside of the device. The material of the source housing window of the LFE Model SCL-77A or SU-P77A device is aluminum with a thickness of 0.8 mil.
2. Before attempting to replace a window, make certain that the device shutter is closed. Closure is indicated by illumination of the green indicator light. For window replacement, either the source housing or the detector housing may be removed from the frame to gain access to the window. To remove the source housing, remove the electrical connector and the three bolts securing the housing to its mounting bracket. To remove the detector housing, remove the electrical connector and the four bolts that secure the detector housing to its mounting bracket or remove the electrical connector and the two bolts that secure the detector housing and its bracket to the frame, depending on the type of frame. The recommended procedure is to remove the detector housing.
3. The window is secured by means of a steel ring which is held in place by four screws. To remove the damaged window, remove the screws and lift off the ring. The window may now be removed.
4. Before installing the new window, make certain that the "O" ring beneath the window is in place. Place the new window in position and make a small hole in it for the first screw. Align this hole with the screw hole. Place the ring over the window, aligning one of the holes with the screw hole. Place a screw in the hole and engage about two turns. On the opposite side of the ring, make another small hole in the window for the second screw and align with the screw hole. Place a screw through the hole in the ring into the screw hole. Engage about two turns. Repeat the process for the remaining screws. Tighten all screws. With a knife, trim excess window material.
5. Return the source housing or detector housing to the frame. Reconnect the electrical connectors.

B. Detector Window Replacement

1. The window on the detector housing is replaced from the outside of the device. The material of the detector housing window is aluminum with a thickness of 2.0 mils.
2. Before attempting to replace a window, make certain that the device shutter is closed. Closure is indicated by illumination of the green indicator light. For window replacement, the detector housing must be removed from the frame. To remove the detector housing, remove the electrical connector and the four bolts that secure the detector housing to its mounting bracket or remove the electrical connector and the two bolts that secure the detector housing and its bracket to the frame, depending on the type of frame.

3. The window is secured by means of a steel ring which is held in place by six screws. To remove the damaged window, remove the screws and lift off the ring. The window may now be removed.
4. Before installing the new window, make certain that the "O" ring beneath the window is in place. Place the new window in position and make a small hole in it for the first screw. Align this hole with the screw hole. Place the ring over the window aligning one of the holes with the screw hole. Place a screw in the hole and engage about two turns. On the opposite side of the ring, make another small hole in the window for the second screw and align with the screw hole. Place a screw through the hole in the ring into the screw hole. Engage about two turns. Repeat the process for the remaining screws. Tighten all screws. With a knife, trim excess window material.
5. Return the detector housing to the frame. Reconnect the electrical connector.

Shutter and Indicator Check

The LFE Model SCL-77A, SU-P77A, and SCL-1C devices incorporate an internal shutter which intercepts the radiation beam and external lights that indicate whether the shutter is open or closed. The red light indicates that the shutter is open and the green light indicates that the shutter is closed. The shutter and indicators of each device must be checked for proper operation at intervals not to exceed six months.

1. With the device in the off-sheet (non-measuring) position, the shutter must be closed. Check that the green indicator light is illuminated and that the green flag appears in the viewing port on the device.
2. Open the shutter. This may be accomplished by operating the Sample Check function. Check that the red light is illuminated and that the red flag appears in the viewing port on the device.
3. Record the results of the shutter and indicator check including date, test results, and the name of the person performing the check.

Emergency Procedures

An individual's first responsibility is for his own safety and for that of his fellow workers. The loss or damage of materials and equipment is a secondary consideration. In an emergency situation involving the radiation devices, the following procedure must be adhered to:

1. The immediate area in the vicinity of the radiation device must be evacuated for a distance of at least thirty (30) feet.
2. The area supervisor and the Radiation Safety officer shall be notified immediately.
3. As soon as possible, the area within thirty (30) feet of the radiation device must be sealed off and marked with a warning sign.
4. The Radiation Safety Officer shall determine the requirement for reporting the accident to the U.S. Nuclear Regulatory Commission. If notification is required, the Radiation Safety Officer shall provide the notification.
5. The Radiation Safety Officer shall determine the need for outside assistance (such as assistance from the manufacturer) in repairing the damage.

APR 01 1991



PURCHASE ORDER

No. 00037147

This number must appear on Invoices and Packages.



TO:

U.S. NUCLEAR REGULATORY COMM
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA PA
19406

Veratec

VERATEC
ROUTE 15
P.O. BOX 20
LEWISBURG, PA. 17837
PHONE: 717-524-2281

ATTENTION OF:

TERMS SB SEE BELOW		F.O.B.		DATE 3/20/91		SEE OTHER SIDE FOR ADDITIONAL PURCHASE TERMS & CONDITIONS	
SHIP VIA: PARCEL POST				DESTINATION, FREIGHT PREPAID			TAX EXEMPT Y= YES
				DELIVERY MUST BE MADE BY THE DATE INDICATED BUT NOT MORE THAN ONE WEEK PRIOR TO THAT DATE			
ITEM	I.P. STOCK NO.	QUANTITY	U/M	DESCRIPTION		PRICE	
1				TO COVER THE COST OF APPLICATION FEE FOR A SPECIFIC LICENSE (FROM THE NUCLEAR REGULATORY COMMISSION REGION I) CHECK IS ENCLOSED ***** DATE REQUIRED: 3/22/91 CHARGE TO G/L # 70621000-1100 G/L # 70621000-1800	Y ↓	400.00	
						TOTAL LINE=	400.00
						66 %	
						34 %	

TOTAL PO: 400.00

SHIPPING - INVOICING INSTRUCTIONS

1. PACKING SLIP must be included with shipment. Include Order Number, IP Stock Number, Quantity, and item description on all papers.
2. INVOICES mail in duplicate to ship to address shown above. Invoice must show Order Number, IP Stock Number, Quantity, item description, price, and material destination.
3. Address all communications relating to this order to the location shown in "ship To" block.
4. For tax exempt certificate number see reverse side of this order.

91 APR -1 P3:52

RECEIVED-REGION I

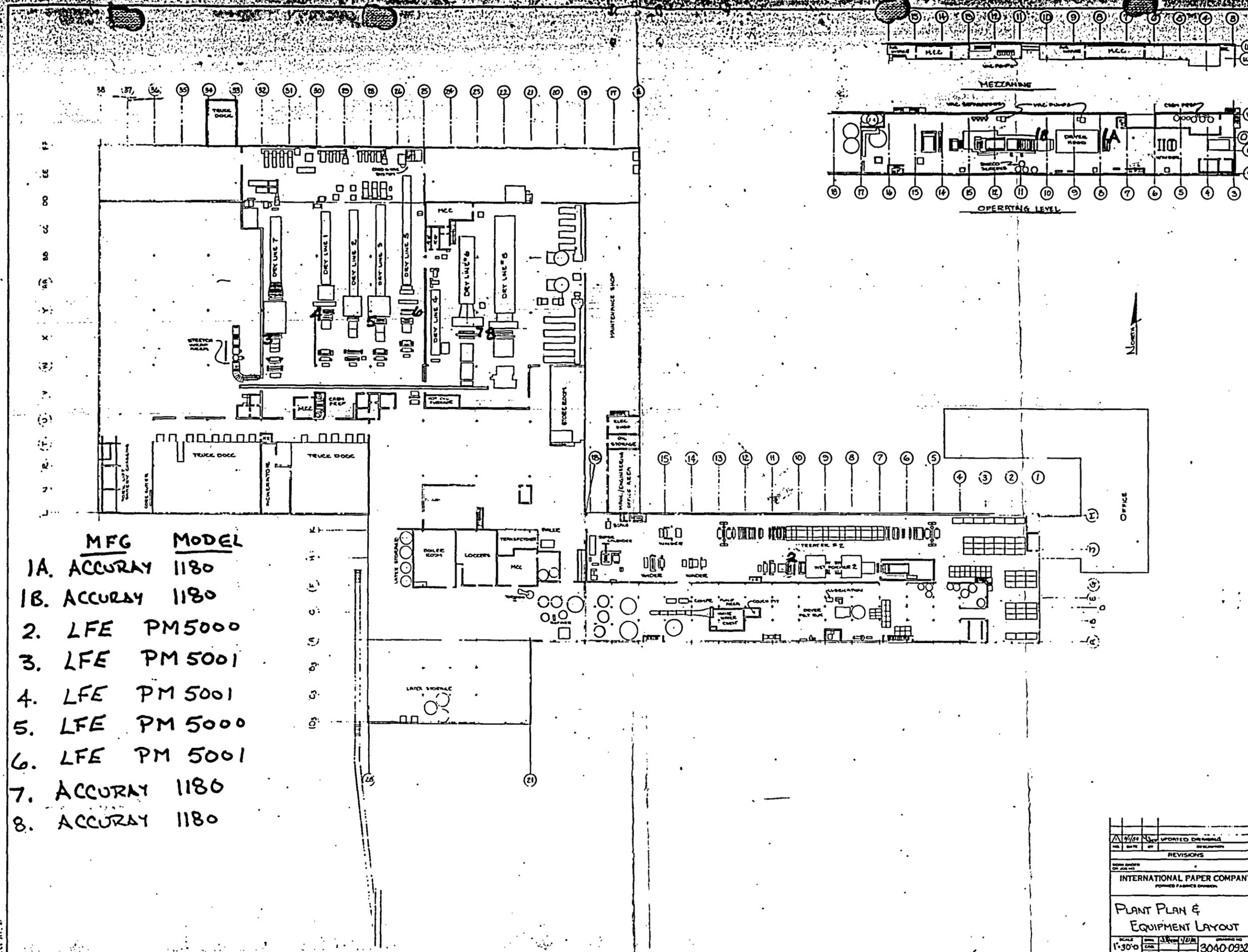
By
NOT VALID UNLESS SIGNED BY AUTHORIZED SIGNATURE.

PAUL J. FEIST

VENDOR'S COPY

APR 01 1991

021837



SI
APERTURE
CARD

Also Available On
Aperture Card

- | | MFG | MODEL |
|-----|---------|--------|
| 1A. | ACCURAY | 1180 |
| 1B. | ACCURAY | 1180 |
| 2. | LFE | PM5000 |
| 3. | LFE | PM5001 |
| 4. | LFE | PM5001 |
| 5. | LFE | PM5000 |
| 6. | LFE | PM5001 |
| 7. | ACCURAY | 1180 |
| 8. | ACCURAY | 1180 |

DATE	BY	DESCRIPTION
REVISIONS		
INTERNATIONAL PAPER COMPANY FORMED PAPER DIVISION		
PLANT PLAN & EQUIPMENT LAYOUT		
SCALE	DATE	DRAWING NO.
1"=30'-0"	3/2/75	3040-0932-1

9202190486-01