



Georgia-Pacific Corporation

252472
030-14787
P.O. Box 367
Jarratt, Virginia 23867
Telephone (804) 535-8541

KSS

88 OCT 17 A10: 22

October 14, 1988

U.S. Nuclear Regulatory Commission, Region II
Nuclear Materials Safety Section
101 Marietta Street, Suite 2900
Atlanta, Georgia 30323

Attn: Ms. Carol A. Connell
Radiation Specialist

Dear Ms. Connell:

With reference to our phone conversation on 10/13/88, we are submitting application for renewal of our Material License #45-18285-01 for our cesium 137 source.

As per our discussion we have returned three (3) sources to Ohmart Corporation. Enclosed is a copy of the Bill of Lading signed by Ohmart representative to insure proper handling and packaging per your request.

All other information on this license remains the same. The only cesium source we have left in the plant is 1500 millicuries. We are renewing the licenses for this source.

Very truly yours,

James E. Phelps/ds

James E. Phelps
Special Projects Supv.

JEP/ds
Attachments (2)

9002010370 881207
REG2 LIC30
45-18285-01 PDR


Log	021-5-II
Remitter	
Check No.	017021
Amount	\$150 - \$30 refunded
Fee Category	3P
Type of Fee	Ren
Date Check Made	10/28/88
Date Completed	10/28/88
By	Russell

OFFICIAL COPY

THIS MEMORANDUM

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

CUSTOMER ORDER NO	SHIPPER'S NO	J 50174
G.P. ORDER NO	MMKXKX OMMART MKA-4816 (rel-298522)	

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.
From: Georgia Pacific Corporation  **At Jarratt, Va.** **OCT. 11, 1988**

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and delivered as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agree to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Through Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.
 Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNEE TO		OMMART CORPORATION, 4241 ALLENDORF DR., ATTN: REPAIR DEPT.	
DESTINATION		STATE OF	COUNTY OF
CINCINNATI		OHIO 45209	
ROUTE		TRACTOR LICENSE NO	
ESTES EXPRESS LINES			
DELIVERING CARRIER		TRAILER NO	MILES
ESTES & CONNECTIONS			
NO. PACKAGES	KIND OF PACKAGE DESCRIPTION OF ARTICLES SPECIAL MARKS AND EXCEPTIONS	WEIGHT (SUB TO CORR)	CLASS OR RATE
	Wallboard Group: Fibreboard, Hardboard or Pulpboard, NOI		✓
3 CRATES	RADIOACTIVE MATERIAL SPECIAL FORM N.O.S. (CS-137) UN-2974 PRINCIPAL RADIOACTIVE CONTENTS: Cs-137 ACTIVITY OF CONTENTS: 90 mCi Transport Index: .1 LABEL TYPE: Type II		
This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to applicable regulations of the Department of Transportation.			Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
RETURN AUTHORIZATION NUMBER 4816			(Signature of consignor)
			If charges are to be prepaid, write or stamp here "TO BE PREPAID" TO BE PREPAID
			Received \$
			To apply in prepayment of the charges on the property described herein.
			Agent or Cashier
			Per
			(The signature here acknowledges only the amount prepaid.)
			Charges advanced \$

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.
 NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
 The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Georgia Pacific Corporation, Shipper **Agent** **Per**
 Permanent post-office address of shipper: **P.O. BOX 105603, ATLANTA, GA. 30348** (This Bill of Lading is to be signed by the Shipper and agent of the carrier issuing same.)

RECEIVED BY _____ DATE _____ **5**



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Georgia-Pacific Corporation
ATTN: Mr. James E. Phelps
P. O. Box 367
Jarratt, Virginia 23867

REFUND OF APPLICATION FEE

1. BACKGROUND:

Check Received October 23, 1988
Application Dated October 14, 1988
Check Number 017021
Check Amount \$150

2. REFUND:

Amount \$30

This refund is now being processed and will be sent as soon as possible.

3. REASON FOR REFUND:

Overpayment of renewal fee for application dated October 14, 1988 for License 45-18285-01 as specified in fee Category 3P (\$120) of Section 170.31, 10 CFR 170.

15/
Glenda Jackson 11/3/88
License Fee Management Branch
Division of Accounting and Finance
Office of Administration and
Resources Management

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

a. NEW LICENSE

b. AMENDMENT TO:
LICENSE NUMBER
45-18285-01

c. RENEWAL OF:
LICENSE NUMBER

See attached instructions for details.

Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.

2. APPLICANT'S NAME (Institution, firm, person, etc.)

Georgia-Pacific Corp.

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
804-535-8541

3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION

J. R. Coiner - Plant Engineer

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
804-535-8541

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)
(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)

Allen Road
Jarratt, Va. 23867

5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED
(Include Zip Code)

Allen Road & N&W RR
Jarratt, Va.

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL
(See Items 16 and 17 for required training and experience of each individual named below)

	FULL NAME	TITLE
a.	J. R. Coiner	Plant Engineer
b.	J. E. Phelps	Electrical Supervisor
c.		

7. RADIATION PROTECTION OFFICER

unchanged

Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.

8. LICENSED MATERIAL

L I N E N O.	ELEMENT AND MASS NUMBER A	CHEMICAL AND/OR PHYSICAL FORM B	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source) C	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
(1)	Cs	Sealed Source	Ohmart Mod. A-2102	1500 mCi
(2)			on A-2104	
(3)				
(4)				

DESCRIBE USE OF LICENSED MATERIAL
E

- (1) Will be used to measure density of an asphalt slurry in a pipe line. The unit
- (2) is an Ohmart model Axile sourceholder, part of a DensART Model 3100 (CS-3 sourceholder)
- (3) CS-3
- (4)

9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED.	NAME OF MANUFACTURER	MODEL NUMBER
	A.	B.	C.
(1)	Sourceholder	Ohmart	Axiel
(2)			
(3)			
(4)			

10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT	MANUFACTURER'S NAME	MODEL NUMBER	NUMBER AVAILABLE	RADIATION DETECTED <i>(alpha, beta, gamma, neutron)</i>	SENSITIVITY RANGE <i>(milliroentgens/hour or counts/minute)</i>
	A	B	C	D	E	F
(1)	Unchanged					
(2)						
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY Unchanged	<input type="checkbox"/> b. CALIBRATED BY APPLICANT <i>Attach a separate sheet describing method, frequency and standards used for calibrating instruments.</i>
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12. PERSONNEL MONITORING DEVICES

TYPE <i>(Check and/or complete as appropriate.)</i>	SUPPLIER <i>(Service Company)</i>	EXCHANGE FREQUENCY
A	B	C
<input type="checkbox"/> (1) FILM BADGE <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) <input type="checkbox"/> (3) OTHER <i>(Specify):</i> _____ _____ Unchanged	Unchanged	<input type="checkbox"/> MONTHLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> OTHER <i>(Specify):</i> _____ Unchanged

13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

<input type="checkbox"/> a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS <i>(Include filtration, if any), ETC.</i> <input type="checkbox"/> b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING <i>(fixed and/or temporary), ETC.</i> <input type="checkbox"/> c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC. <input type="checkbox"/> d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.	Unchanged
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14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED Unchanged
b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE. Unchanged

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

15. **RADIATION PROTECTION PROGRAM.** Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (*if needed*), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.

16. **FORMAL TRAINING IN RADIATION SAFETY.** Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.

- a. Principles and practices of radiation protection.
- b. Radioactivity measurement standardization and monitoring techniques and instruments.
- c. Mathematics and calculations basic to the use and measurement of radioactivity.
- d. Biological effects of radiation.

17. **EXPERIENCE.** Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

Unchanged

18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our 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.

a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170) Yes	b. CERTIFYING OFFICIAL (Signature) J. R. Coiner
(1) LICENSE FEE CATEGORY: 3L	d. TITLE Plant Engineer
(2) LICENSE FEE ENCLOSED: \$ 40.00	e. DATE March 6, 1981



Georgia-Pacific Corporation

Allen's Road
Jarratt, Virginia 23867
Telephone: (804) 535-8541

RECEIVED

1981 MAR 13 AM 11 22

March 9, 1981

U.S. NUCLEAR REG.
COMMISSION
WMSS MAIL SECTION

Division of Fuel Cycle and Material Safety
Office of Nuclear Material Safety and Safeguards
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Sirs:

Enclosed is our application for a Byproduct (Radioactive) Material License Amendment as required by your agency.

We are also enclosing the license fee of \$40.00.

Very truly yours,

Andy Wirtanen

ANDY O. WIRTANEN
PLANT MANAGER

AOW/ds

RECEIVED BY LFMS	
Date	3/17/81
Log	Mar-18
By	ds
Orig. To	
Action Compl.	3/18/81

Applicant	
Check No.	07951
Amount Fee Category	#40-37
Amount	Am. T.
Date Paid	3/17/81
Approved By	Jackson

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07139

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 (Use supplemental sheets if necessary)

8. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)	FORMAL COURSE (Circle answer)
a. Principles and practices of radiation protection	(a) - (d) 2 to 3 days instruction		Yes No	Yes No
b. Radioactivity measurement standardization and monitoring techniques and instruments	by Field Engineer at the job		Yes No	Yes No
c. Mathematics and calculations basic to the use and measurement of radioactivity	site during start-up of gage		Yes No	Yes No
d. Biological effects of radiation			Yes No	Yes No

9. EXPERIENCE WITH RADIATION. (Actual use of radioisotopes or equivalent experience.)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
None				

10. RADIATION DETECTION INSTRUMENTS (Use supplemental sheets if necessary.)

TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm ²)	USE (Monitoring, surveying, measuring)
None required - Ohmart representative will place gages in service and make initial survey and wipe test.					

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.

N/A

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier.)

None required - Radiation level will not exceed 5 mr/hr. at 1 ft. from gage.

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE

13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes No N/A

14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source. See Attached

15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved. See Attached

CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMANCE WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

Date September 12, 1978

RECEIVED

Georgia-Pacific Corporation
Applicant named in Item 1
By: J. K. Kilduff
Plant Manager
Title of certifying official

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.

UNITED STATES ATOMIC ENERGY COMMISSION
APPLICATION FOR BYPRODUCT MATERIAL LICENSE

INSTRUCTIONS. - Complete Items 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commission with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention: Isotopes Branch, Division of Materials Licensing. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30, and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

<p>1. (a) NAME AND STREET ADDRESS OF APPLICANT (Institution, firm, hospital, person, etc. Include ZIP Code.)</p> <p>Georgia-Pacific Corporation Southern Division Allens Road Jarratt, VA 23867</p>	<p>(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED (If different from 1 (a). Include ZIP Code.)</p> <p>Same as 1. (a) 30-14787 L+L 18285</p>
<p>2. DEPARTMENT TO USE BYPRODUCT MATERIAL</p> <p>Manufacturing Department</p>	<p>3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)</p> <p>N/A 03120</p>
<p>4. INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.)</p> <p>A. O. Wirtanen Production Superintendent</p>	<p>5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)</p> <p>J. R. Coiner Plant Engineer</p>

<p>6. (a) BYPRODUCT MATERIAL (Elements and mass number of each.)</p> <p>Cs - 137 Cs - 137</p>	<p>(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME (If sealed source(s), also state name of manufacturer, stock number, number of sources and maximum activity per source.)</p> <p>One 50 mCi Ohmart Sealed Source Model A5771 Two 20 mCi Ohmart Sealed Source Model A2102</p>
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Applicant.....
 Check No. 01852.....
 Amount/Fee Category \$ 110-34.....
 Type of Fee Application.....
 Date Check Rec'd. 9/19/78.....
 Received By Jackson.....

RECEIVED BY LFMD
 Date SEP. 19 1978
 Log. SEPT 165 New
 By Brown
 Orig. To.....
 Action Compl. 9/21/78

7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

To be used in an Ohmart SHRM source holder to measure level in steaming tube.
 To be used in an Ohmart SHGS-2 source holder to measure level in steaming tube.

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96516

BYPRODUCT MATERIAL

LICENSE ATTACHMENT

ITEM 14. Control Measures

- (a) The source holders will be received and stored pending arrival of Manufacturers Field Engineer. The source holders will be installed in the closed position under the supervision of the representative. A written procedure for prevention of entry into the vessel when the source is in the open (source exposed) position will be prepared. This program will be developed in consultation with the manufacturers representative.
- (b) The initial radiation survey will be made by the representative at the time of placing the device in service. An occupancy evaluation will be made by the representative and should film badges appear to be required they will be obtained. Form NRC-3 will be posted and should the radiation survey with the vessel(s) empty reveal radiation fields in excess of 5 mr/hr at 12 inches from the surface of the vessels appropriate warning signs will be posted. Procedures will be adjusted to reduce the total dose to personnel to the minimum reasonably achievable. A copy of the radiation survey and written procedures will be kept on file for future reference.
- (c) In case of malfunction of the source holder or damage thereto the services of manufacturers representative will be obtained for repair or to supervise removal and proper packaging for return to the manufacturer for repair or replacement as required.

In case of emergency such as fire or explosion involving apparent damage to the source holder the appropriate Regional Office of Inspection and Enforcement (10 CFR 20 Appendix D), USNRC will be contacted for assistance. The area around the source holder will be barricaded. The services of a manufacturers representative will be obtained to assist in inspection for damage and local health authorities will also be notified.

- (d) Leak test procedure--A test will be performed on the surface of the source holder every three years by the individual user listed in Item 4 of the application in accordance with the instructions of the manufacturers representative and contained in the gage instruction manual. The wipe test kit to be used in the Ohmart Model LT and the wipe will be evaluated for leakage by The Ohmart Corporation. Should the presence of 0.005 microcuries of removable contamination be detected, the source holder will be withdrawn from service, the Regional Office of the USNRC notified and the device repaired or replaced by the manufacturer.

ITEM 15. Whenever the source holder is no longer needed it will be either

1. Removed and stored in a locked cupboard or room properly labeled. It will not be replaced in service without prior leak testing, or,
2. Removed and returned to the manufacturer for disposal.

In either case, the services of the manufacturers representative will be obtained to supervise removal, reinstallation, and/or packaging for return to the manufacturer Corporation.