

# UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III 801 WARRENVILLE ROAD LISLE, ILLINOIS 60532-4351 October 3, 2000

MEMORANDUM TO: License File No. 13-10675-5

General Motors Corp. Delco-Remy Div. 2401 Columbus Ave

Anderson, IN

THRU: Bruce L Jordensen, Ch

Bruce L. Vorgensen, Chief, Decommissioning Branch

FROM: Edward L. Kulzer, Radiation Specialist

SUBJECT: CLOSE OUT OF THE LICENSE FILE

The terminated License File 13-10675-5 was forwarded to Region III for follow up as part of the Oak Ridge National Laboratory Terminated Sites Review because it lacked information as to the disposition of sealed sources. The License was for a General Motors Corp. facility located in Anderson, IN, where the sealed sources were installed in custom gauges to control plastic materials. The following sealed sources were not clearly accounted for when the license was terminated on October 11, 1973: Kr-85 (100 microcuries); Cs-137 (1.0 curies, 100 millicurie, 3.0 curies); two Am-241 sources (20 millicurie); Am-241 (190 millicurie); Kr-85 (50 millicurie); and Sr-90 (3 millicurie).

The file indicates that the sources were disposed of in accordance with Part 20; however, there were no details and no report of survey in the file.

In an associated NRC License file (No.13-10675-01), there are reports of an inspection conducted by S. Lasuk dated March 1, 1979, identifying the sealed sources and the fact that the sources had been in storage for five years, and an inspection by J. Cameron and D. Piskura dated March 11, 1991, which states that sealed Am-241 (1 curie) sources are being stored at this facility. Subsequently, a letter from NRC to General Motors dated March 15, 1991, requests that GM remove licensed material that had not been used since the mid-seventies.

In a letter dated March 25, 1991, Mr. H. K. Patel, General Manager of Delco Remy, sent NRC a letter indicating that all licensed sources would be sent to U.S. Ecology for disposal. (Attachment 1)

Mr. Weflen, Manager of Environmental Services, DELFI Automotive Systems (which currently occupies the address) was contacted. Mr. Weflen stated that there were no sources on site. He provided the NRC with copies of several hazardous waste shipping papers dated from the early to middle 1990's. These documents account for all the sources except two: a Kr-85 source of 100 microcuries and a Sr-90 source of 3 millicuries. (Attachment 2)

Based on the above information Region III considers License File No. 13-10675-5 closed. No further action will be taken for 13-10675-5.

Attachments: As stated

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DOCUMENT NAME: G:\SEC\closeGM.wpd

To receive a copy of this document, indicate in the box: "C" = Copy without enclosure "E" = Copy with enclosure "N" = No copy

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NAME	Kulzer:js	Jorgensen		
DATE	10/ /00	10/3/00		

bcc:

J. Buckley, NMSS B. Snell, RIII



Attachment 1

March 25, 1991

Mr. William H. Schultz, Chief Nuclear Materials Safety Section 1 U. S. Regulatory Commission Region 111 799 Roosevelt Road Glen Ellyn, IL 60137

> Re: License No. 13-10675-01 Docket No. 030-04385

Dear Mr. Schultz,

The following actions will be taken in response to your March 15, 1991 letter and Notice of Violation.

Delco Remy will take immediate steps to remove and dispose of all stored nuclear waste materials which were reviewed in the February 28, 1991 inspection.

Requests have been sent out to obtain quotations for the legal disposal of all of these materials. As soon as these are received, we will proceed with the contracting of their removal and disposal.

Preliminary conversation with U. S. Ecology, Inc. by our engineers yielded a timeframe of approximately three months to complete the process, barring any unforeseen circumstances.

Sincerely,

DELCO REMY DIVISION

H. K. Patel General Manager

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FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

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#### Manifest Index & Regional Compact Tabulation

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GENERATOR NAME: Delco Remy

USEcology, Inc. an American Ecology company

#### **CONTINUATION SHEET**

FOR BROKER USE ONLY:

Indicate one category for this page:

☐ This page describes PROCESSED waste

Linis page describes COLLECTED waste

MANIFEST # 87588

**GUSTOMER COPY** 

	T/BROKE	R:			(14)	(15)	(16)		(17)	V. 4/91 (18) Activity	(19) Special	(20)	(21)	(22)		Radiation Levels	· · · · · · · · · · · · · · · · · · ·	(26) Transport	(27) Fissile	(25) D.O.T. Label
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"ANY USE OF "OTHER" AS A DESCRIPTION MUST INCLUDE A WRITTEN AND SIGNED EXPLANATION ATTACHED TO THIS MANIFEST.

# **Ecology**

an American Ecology company

June 26, 1991

Carol Barry Delco Remy P.O. Box 2439 Anderson, IN 46018

Dear Ms. Barry:

Attached you will find a copy of the receipt of disposal for your shipment of radioactive waste.

After removing all of the sources listed on the inventory I conducted a general area radiation survey of the room using a thin window (less than 2  $mg/cm^2$ ) GM detector.

The purpose of this scan was to see if there was an indication of any other radioactive materials in the room.

The survey did not find any additional material.

If you have any questions please call,

Sincerely,

Andy J. Armbrust

Manager, Special Projects

AJA/pt

encl.

## USEcology

an American Ecology company

This is to certify that the waste shipment described below was received and disposed at the US Ecology, Beatty Low-Level Radioactive Waste Disposal Facility. This certification satisfies the Acknowledgement of Receipt of Waste Conditions of the State of Nevada Radioactive Materials License 13-11-0043-02 issued to US Ecology, Inc.

GENERATOR NAME:

US ECOLOGY

BATES NUMBER:

445807

GENERATOR NUMBER: KYR 99-003-3847

MANIFEST NUMBER: 27588

SHIPMENT NUMBER: 27588

DATE RECEIVED:

5/28/91

waste materials received in the shipment:

SIGNATURE:

DATE:

Discrepancies (if any) between wastes listed on the manifest and

NOTE: Any inquiries to this acknowledgement should be directed to the facility radiological control and safety officer.



September 16. 1991

Delco Remy 7601 B. 88th Place Indianapolis. IN 46256

Attn: Ron Taylor

Re: Your P.O. 420308

Ohmart S.O. #CVGE-1160-09065

Sir:

This is to acknowledge the receipt of the following:

One (1) BAL source holder containing 1000 mCi Am-241, original Ohmart shop order 2062-07006, serial number 1570.

This shipment was received on Ohmart Receiving Record #4686, dated September 3, 1991.

We accept this material and will handle it in strict accordance with the provisions of our license, with the regulations of the U.S. Nuclear Regulatory Commission, the regulations of the U.S. Department of Transportation and any other applicable laws or regulations.

If you have any additional questions, please do not hesitate to contact us.

Sincerely,

THE OHMART CORPORATION

Candy Brock

Administrative Assistant Field Service Department

Ohmart's NRC License Number 34-00639-01

c: Pile Sales CVG

James Griffin (Delco Remy, Anderson, IN)

August 26, 1993

Mr. Herb Wilken Buyer General Motors/Delco P.O. Box 2439 Anderson, IN 46018

Dear Mr. Wilken,

Tel: 317-646-3635 Fax: 317-577-9008

This letter is in response to a call by your Mr. Bob Rosseter regarding your old GR100 system #010301. We understand you want to dispose of the equipment, mainly the source device, which must be transferred to a specific licensee for disposal. In this case, the usual procedure is Gamma Instruments will accept the source device conditional to an inspection. If the sealed source capsule is intact with no damage and no detectable leakage, Gamma Instruments will accept the device. However, if there are any signs that the source is not in good condition, it will have to be returned to Amersham Corporation for disposal/storage. This will cost approximately \$6,000.00 if it has to be disposed of by Amersham.

Gamma Instruments will recover the source at our standard rates of \$895.00/day to drive to your facility, leak test and package the source device and return with it to our facility. We will inspect it at our facility and inform you of our determination. Included in this is all of the regulatory notification and transferral documentation relieving you of any further liability in connection wit this device.

Please do not hesitate to call if you have any questions.

Sincerely yours, Gamma Instruments, Inc.

William P. Bors President

WPB/ew

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#### ACKNOWLEDGMENT OF RECEIPT OF RADIOACTIVE MATERIAL

Date:

March 11, 1994

Company Name:

Delco Remy Division - General Motors Corp.

Address:

Muncie Battery

4500 S. Delaware Drive

Muncie, IN 47302

Attention:

Mr. Steve Crisler

This is to certify that TN Technologies Inc. has received and accepted ownership of the radioactive material described below pursuant to applicable regulations and as authorized by our Texas Radioactive Material License LO3524:

Isotope	Activity	Source Serial	Manufacturer	Model No.	Model Serial No.
Am-241	1000 mCi	1574	Ohmart	BAL	1574
Am-241	1000 mCi	1575	Ohmart	BAL	1575
Am-241	1000 mCi	1577	Ohmart	BAL	1577
Am-241	1000 mCi	1579	Ohmart	BAL	1579

This receipt should be retained in your files as a permanent record showing the disposition of this radioactive material.

If you have any questions or if we may be of further assistance, please contact me directly at 512-388-9291 or 800-736-0801.

Sincerely,

TN TECHNOLOGIES, INC.

Lori Pelliccia

**Technical Services Coordinator** 

/llp

TN Technologies, Inc.

An EnviroTech company

P.O. Box 800 Round Rock, Texas 78680-0800 (512) 388-9100. Fax: (512) 388-9200. Telex. 77-6413

# ST TO AN COMMISSION STATES OF THE STATES OF

### UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION III 801 WARRENVILLE ROAD LISLE, ILLINOIS 60532-4351

APR 1 1 1995

Delco-Remy Systems General Motors Corporation ATTN: Don Eckstein 2401 Columbus Avenue Anderson, IN 46018

Dear Mr. Eckstein:

Enclosed is Amendment No. 23 which terminates your NRC License Number 13-10675-01 in accordance with your request.

If you have any questions or require clarification on any of the information stated above, you may contact us at (708) 829-9887.

Sincerely,

Gidget Watson

Materials Licensing Section

License No. 13-10675-01 Docket No. 030-04385

Enclosure: Amendment No. 23

Shirley Cutchfield

U.S. MUGLEAR REQUESTION COMMISSION PAGE PAGES License Number

# BARNWELL

		VIII DAS CITA LA		SHIPMENT LD. NUMBER	7 COMMEAN AND SAMA PAGE 1 OF 1 PAGE(		(Use this number on all continuation
FORM 640	O SERVICES, INC.	DELFHI ENERGY! FOR THE ACCOUNT	!	980663 8	FORM S41 AND S41A		projet)
UNIFORM LOW-LEVEL RADIOACTIVE		DF ADCO SERVICES, MC. 2500 SOUTH SCATTERFIELD RADD	_1.	COLLECTOR	NOTA	ᅦ	
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1. EMERGENICY TELEPHONE NUMBER (Include Area Code) 784-444-3272		CONTACT THE REMER		TELEPHONE NUMBER (Include Area Code)	17650 DJVAN DROVE TINLEY PARK, IL 60477	800-282-2326	326
DRGANIZATION		A CHICKLE Assessed Additions		EPALD, NUMBER	SIGNABIRE - Authorized consigner activowredging waste receipt	PA	12.71.85
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A DOES EPAREGIALATED YES EPAMANIFEST KUMBER		CONTACT BILL HORK		(include Area Code) 706-429-3013	disposal as described in accordance with the requirements of 10	D CFR Parts 20 and 61, or	equivalent scala regulations DATE
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		20. CZ	stomer represents and warm	ints that of data see forth in this	20. CLESOMA represents and warrants that all data set forth in this Uniform Low Level Radioactive Manifest is thus and correct in all respects	il respects.	
FOR CONSIGNEE USE CHALY			Date 12-23-78 Signature	Enerly Engineer	ar Delphi Lagran End	ergy a Ensi	Energy a Engine Montsystu
-		. P	Telephone No. (7/65)	7			
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FORM \$40 (10-85)							

#### RAKNMELL

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					mС	4,0000	YE-92	NP	MP	NI ION FOR EACH	-	TYPE IN CONTAINER	(IDS)		<u> </u>		1	18.WASTE
	DISPOSAL CONTAINER	DESCRIPTION_		1				PH	YSICAL DESCRIPTIO	N	THASIL	14. CHEMICAL DESCRIP	TION	15,	RADIOLOGICA	L DESCRIPTION	٧	CLASSIFI- CATION
5. CONTAINER IDENTIFICATION NUMBER /	6.  CONTAINER  DESCRIPTION  (See Note 1 &	7. VOLUME:	B. WASTE AND CONTAINER WEIGHT	SURFACE RADIATION LEVEL	CONTA	RFACE AMINATION /100 cm2 /100 cm2	DE:	WASTE SCRIPTOR See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(5) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION STABILIZATION MEDIO (See Note 3	non A te 3	CHEMICAL FORM CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	CONTAINER	TOTAL: OR CI	DES AND ACTIV ONTAINER TOT LICLIDE PERCE	AL ACTIVITY	AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
	Note 1A)	(H3)	(kg) (lb)	mSvfhr mrem/hr	ALPHA	GAMMA					<del>''</del>	ATT TO DOUBLE UP		Ir-192	NUCUDES	MBq 1,8500E+00	mCi 6,0000E-02	AU
900003-001/APPLIED FOR 2900 SOUTH	1	0.1416	B1,6464	,0003	0	0	36-H		0,1416	100 100		SEALED SOURCE NP	0.00	Subtatal		1,9500E+00	8.000Œ-0Z	
SCATERPIELD ROAD ANDERSON, IN 46913		6000,3	180.8000	.03	0	0			6.8000					Total		1,8600E+00	6.0000E-02	
Shipment Totals		0,1416	81.6466		•				·									
		8,000	180,9000				ļ			<del></del>				<del> </del>	·			
					1.00													
waste requiring dispecal in pecks the numerical code in the second of the second	O. Gas Cylinder D. Bulk, Unpackaged Waste Unpackaged Components High Integrity Container Other. Describe in Item 6,	A High Integri B High Integri C High Integri D High Integri	N Specific Contain one code as may by Container - Poly ty Container - Poly ty Drum Overpack ty Container - Stain ty Container - Fibe	he applicable.) with Steel Shell - Poly nless Steel nglass	20, Charc 21, Incine 22, Soil 23, Gas 24, Oil 25, Aquer 26, Filter	28, analysis of the state of th	Demotition f Cation lone Anion lone Mixed Bed is Contaminate	Rubble exchange Media exchange Media fon-exchange Media and Equipment (accept oil) or Labware exceptoes	38. Evaporator Both Concentrates 39. Compactible Tra 40. Noncompactible Tra 41. Animal Certass 42. Biological Mater snimal certass 43. Activated Materi 59. Other, Describe or additional pr	sh Trash iel (except i) el in item 11,	Wast	2A: Barnwell Specific to Descriptor Codes one all applicable codes.)  Dewatered Solid Combustible Non-combustible Air Filtration Filters Asbestos	Selicific 90, Cen 91, Con (enca 92, Bitu	nent 94. crets 99. spsulation) men	d Stabilization are which private which private with the private priva	renè e ge	Note 2A: Barm Solidification a Stal-Mission Mission (Choose Mission (Choose Mission applicable) M Wax	ind ledia Codes
FORM 541 (10-96)								_										