

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

INSPECTION REPORT

Report No. 030-11318/96-001 Program Code 3214
Docket No. 030-11318
License No. 29-08636-02 Priority 3 Category E
Licensee: EMR Photoelectric
P.O. Box 44
Princeton, New Jersey 08542-0044
Facility Name: EMR Photoelectric
Inspection At: 20 Wallace Road
Princeton Junction, New Jersey
Inspection Conducted: October 21, 1996
Inspectors: Eric H. Reber 10/25/96
Eric H. Reber date
Health Physicist
Approved By: Francis M. Costello 11/5/96
Francis M. Costello, Chief date
Nuclear Materials Safety Branch 3
Division of Nuclear Materials Safety

Inspection Summary: Special, announced safety inspection conducted October 21, 1996 (Inspection Report No. 030-11318/96-001)

Areas Inspected: Loss of Package During Shipment Containing One Hydrogen-3 Neutron Generator

Results: No violations were identified.

RETURN ORIGINAL TO
REGION I

9611130116 961106
PDR ADOCK 03011318
C PDR

DETAILS

1. Persons Contacted

- * Joel Groves, Radiation Safety Officer
- Lou Cardarelli, Neutron Generator Technician, EMR
- Ron Primka, Head of Shipping, EMR
- Tom Dagge, Dispatcher, G & P Trucking

*Individuals present during exit interview.

2. Scope of Licensed Activities

The licensee manufactures sealed ceramic neutron generator tubes, each manufactured with 1.5 curies of hydrogen-3, that are used in well logging operations.

3. Loss of Package Containing One Hydrogen-3 Neutron Generator

On September 17, 1996, a package containing seven neutron generators that originated in Schlumberger Wireline & Testing Field Organization's Mexico City facility was delivered by G & P Trucking to the licensee's facility. The licensee representative that received the package from G & P Trucking noted on the "Delivery Order Form" reviewed during the inspection that only one box was received (Attachement 1). The "Delivery Order Form" indicated that two packages were included in the shipment. The licensee then commenced a search for the missing package that contained one 1.3 curie hydrogen-3 neutron generating tube. The licensee conducted interviews with personnel from G & P Trucking and searched the trucking company's Folcroft, Pennsylvania warehouse in an effort to find the missing package. G & P Trucking provided a copy of a receipt indicating that two packages were picked up by G & P Trucking at Philadelphia Airport (Attachement 2).

A representative from G & P Trucking was contacted by the inspector and he stated that he observed the two packages in question on their loading dock prior to being loaded onto the delivery truck. Also, the trucking company representative stated that, in an effort to find the missing package, they had contacted all facilities where the truck made deliveries on the day in question and that none had received an extra package. However, he also stated that he did not see the packages in question being loaded onto the delivery truck. This information is in agreement with information provided to the licensee by G & P Trucking.

3. Exit Interview

The results of the inspection were discussed with the individual identified in Item 1. The Radiation Safety Officer stated that they will continue to look for the package and will contact Region I if it is located.

Attachment 1

Delivery Order Form

(Inspection Report No. 030-11318/96-001)

DELIVERY ORDER

RML

OUR REF: 05-IA 814855 01
 ENTRY No.: 655-5814855-0
 DATE: 09/05/96

FROM: SAMUEL SHAPIRO & CO., INC. AS AGENTS ONLY

SCHLUMBERGER TECHNOLOGY CORP.
 110 SCHLUMBERGER DRIVE

SUGARLAND

TX 77478

Attn: Dispatch
 NEW SHIPMENT

Ref.

FOR CARRIAGE TO

(name)

EMR PHOTOELECTRIC

609-897-8550

(address)

20 WALLAGE ROAD
PRINCENTON JUNCTIONPRINCENTON
NJ 08540

via (route)

PLEASE RELEASE TO

G&P TRUCKING

(ESTIMATED-CONFIRM WITH
PIER OPERATOR)

FREE TIME EXPIRES : 5 P.M.

TO DELIVERY CLERK

Voyage

S/S Line or Agent

CO

0180

CONTINENTAL AIRLINES

Arrived

08/29/96

at

CONTY AL AIR CARGO

PHILA. I/L A/P CARGO UNIT #2

PHONE

PRIOR TO PICK UP TO VERIFY AVAILABILITY

PORT:

No. of Packages

Description of Articles, Special Marks and Exceptions

B/L

Weight
(Subject to Tare)

2

PCS STC MINITRON TUBE
 AS ADDRESSED

005 26694452

9#

NO STORAGE TILL 9/12 PER JOE MILLER.
 DELIVER ATTN: NEIL REFM 917***
 BEFORE DELIVERY CALL: RECV'NG
 SEND PREPAID FREIGHT BILL TO: SHAPIRO

Rec'd
 ONLY

①

Box

TR

NOTE

TAILGATE LOADING UNLESS OTHERWISE INDICATED
 THE CARRIER OR CARTMAN TO WHOM THIS ORDER IS ASSIGNED WILL BE HELD RESPONSIBLE FOR
 ANY DEMURRAGE CHARGE RESULTING FROM NEGLIGENCE.

(RETURN SIGNED BILL OF LADING TO SAMUEL SHAPIRO & CO., INC.)

CHECK MARKS CAREFULLY. IN CASE OF DAMAGE
 OR DIFFICULTY PHONE SHAPIRO IMMEDIATELY.

SAMUEL SHAPIRO & COMPANY, INC.

Per

Rich L...
 (VALID ONLY IF SIGNED)

Attachment 2

Package Receipt

(Inspection Report No. 030-11318/96-001)

RE-17 MAY. PREY. 4-000

Attachment 3

Licensee Timeline

(Inspection Report No. 030-11318/96-001)

September 11	-	*Told about the Mexican shipment never being received at EMR
September 12	-	*Called Continental Cargo and spoke to Dana. She told me the shipment was released by our broker Shapiro yesterday (9/11/96) and then 2 pieces were picked up by G&P trucking, (to "Cabage" at 10:40 AM).
September 17		<ul style="list-style-type: none"> • I thought we would be receiving our packages in a couple of days * Not having received our shipments, I called G&P. I was told the two boxes were on the shipping dock, and they would be delivered this day. I spoke to the dock manager, Tom Dagge. • Tim Rose from shipping called to tell me only one box was received. • Called G&P.. I was told nothing could be done until the next day, after Tom questioned the delivery person
September 18		<ul style="list-style-type: none"> * Opened the carton from Mexico and discovered one tube was missing * Called G&P once more. Was told by TOM the two boxes were definitely
loaded		<p>onto the delivery truck. Tom went on to describe what each box looked like. Tom also stated the box might have been delivered to the wrong place or possibly fell off of the pallet. He stated he would question the driver and have him re-trace his steps.</p>
September 20		<ul style="list-style-type: none"> * Took a field trip to G&P with Joel Groves. Searched the shipping docks and questioned Tom Dagge. We were convinced the two boxes were at the dock site. Tom Dagge description of the boxes were exactly what we expected the two to boxes look like. Tom also mentioned the stop previous to ours was at Princeton University. He stated that 11 boxes were delivered and that perhaps our shipment was also there.
September 23 -		Called G&P numerous times (about 3 times a week). Offered a \$200 reward (no questions asked) for information concerning the lost box. Finally Tom told me it was a lost cause, the box was lost.
October 17		

Attachment 4

Other Documents Received From Licensee

(Inspection Report No. 030-11318/96-001)

INVOICE AND DECLARATION VALUE


SCHLUMBERGER OFFSHORE SERVICES (MEXICO) N.V.

FROM: SCHLUMBERGER OFFSHORE SERVICES (MEXICO) N.V.
 Melchor Ocampo No.193, Torre "A" Noveno Piso
 Col. Veronica Anzures, 11300 México, D.F., RFC.: SOS-931206-AJ7

INVOICE OF

SHIP TO: EMR PHOTOELECTRIC C/O SMITH AIR
 20 WALLACE ROAD
 PRINCENTON JUNCTION, NJ 08550
 U.S.A.
 ATTN: AMY POLLOCK
 RETURN AUTHORIZATION NUMBER. 899
 SHIP VIA: AIRFREIGHT

INVOICE Nº SMX-EMR 424/96
 DATE: 08/19/96
 CODE: DEFINITIVO

PART. NUM.	DESCRIPTION OF GOODS	QTY	UNIT PRICE	VALUE US DOLLARS
	MINITRON S/N 7987 ✓	1	250.00	250.00
	MINITRON S/N 9111 ✓	1	250.00	250.00
	MINITRON S/N 4355 ✓	1	250.00	250.00
	MINITRON S/N 4351 ✓	1	250.00	250.00
	MINITRON S/N 4432 ✓	1	250.00	250.00
	MINITRON S/N 4209 ✓	1	250.00	250.00
	MINITRON S/N 9055 ✓	1	250.00	250.00
	MINITRON S/N 4283 ✓	1	250.00	250.00
	TOTAL		2,000.00	2,000.00
	Value only for custom purposes.....			
	This invoice is true and correct in all particulars.			
	ATENTAMENTE  ROSALINDA RIVERA MCA IMPORT/EXPORT ADMINISTRATOR			

RADIOACTIVE MATERIAL TRANSFER

SWS-2680-C (11/92)



SHADED AREAS FOR CONTROLLERS USE ONLY
N THE "SHIPPED TO" MANAGER MUST SIGN ALL COPIES UPON
RE T OF THE SOURCE(S) AND REMOVE THE SOURCE(S) FROM "IN
TRANSIT" ON THE RADIATION SOURCE CONTROL LISTING

R 2359

SHIPPED FROM		CODE NUMBER				SHIPPED TO		CODE NUMBER					SHIPPED VIA					
SMX				8	3	1	2	EMR				8	1	2	3	0	AIR	
MANAGER'S SIGNATURE						DATE		MANAGER'S SIGNATURE					DATE		FOR CONTROLLERS USE ONLY			
								<i>Joel Groves</i>					7/18/96		TRANSACTION DATE			
SCHLUMBERGER PART NUMBER	ASSET I.D.	ASSET SERIAL NUMBER		DESCRIPTION		M & S QTY	UNIT COST	AMOUNT		ACCOUNT								
H541470	MNTR-F	4209		MINITRON		1												
H541470	MNTR-F	4351		MINITRON		1												
H541470	MNTR-F	4432		MINITRON		1												
H541470	MNTR-F	4355		MINITRON		1												
H541470	MNTR-F	4283		MINITRON		1												
Not received							RETURN AUTHORIZATION NUMBER		899									
"MINITRON TUBE(S) RETURNED AS PER GUARANTEE".																		

IMPORTANT NOTICE TO RECEIVING LOCATION: If you do not receive this material within a reasonable shipment period, notify the sending location by telephone so that tracing procedures and claims may be initiated immediately. The Radiation Safety Officer and/or the HSE Manager should also be notified.

FOR CONTROLLERS USE ONLY						TOTAL	
ACCOUNT NUMBER	LOCATION CODES		AMOUNT				
	DEBIT	CREDIT					



DISTRIBUTION: COPY 1 - Receiving Location
COPY 4 - Shipping Location

COPY 2 - Division
COPY 5 - As Needed

COPY 3 - HSE Manager
COPY 6 - Packing Slip

RADIOACTIVE MATERIAL TRANSFER

SWS-2680-C (11/92)



SHADED AREAS FOR CONTROLLERS USE ONLY
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RELEASE OF THE SOURCE(S) AND REMOVE THE SOURCE(S) FROM "IN
TRANSIT" ON THE RADIATION SOURCE CONTROL LISTING

R 2360

SHIPPED FROM		CODE NUMBER				SHIPPED TO		CODE NUMBER				SHIPPED VIA	
SMX		8 3 1 2				EMR		8 1 2 3 0				AIR	
MANAGER'S SIGNATURE				DATE		MANAGER'S SIGNATURE				DATE		FOR CONTROLLERS USE ONLY	
						<i>Joe Flores</i>				9/18/96		TRANSACTION DATE	
SCHLUMBERGER PART NUMBER	ASSET I.D.		ASSET SERIAL NUMBER		DESCRIPTION		M & S QTY	UNIT COST		AMOUNT		ACCOUNT	
H257820	MNTR-C		9111		MINITRON		1						
H257820	MNTR-C		7987		MINITRON		1						
H257820	MNTR-C		9055		MINITRON		1						
RETURN AUTHORIZATION NUMBER							899						
"MINITRON TUBE(S) RETURNED AS PER GUARANTEE".													

IMPORTANT NOTICE TO RECEIVING LOCATION: If you do not receive this material within a reasonable shipment period, notify the sending location by telephone so that tracing procedures and claims may be initiated immediately. The Radiation Safety Officer and/or the HSE Manager should also be notified.

FOR CONTROLLERS USE ONLY						TOTAL	
ACCOUNT NUMBER	LOCATION CODES		AMOUNT				
	DEBIT	CREDIT					



DISTRIBUTION: COPY 1 - Receiving Location
COPY 4 - Shipping Location

COPY 2 - Division
COPY 5 - As Needed

COPY 3 - HSE Manager
COPY 6 - Packing Slip

Schlumberger Offshore Services Mexico N. V.

Facsimile Message

Schlumberger Offshore Services (Mexico) N.V.
Melchor Ocampo N° 193, Torre "A"
Conjunto Galerias
Col. Veronica Anzures
11300 Mexico, D.F.
Phone: (52-5) - 260-3409, (52-5) 260-4626
Fax: (52-5) 260-0426

-> Message consists of 7 pages <-

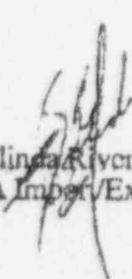
Tuesday, August 20, 1996

To: EMR - Attention: Amy Pollock
From: MCA - Rosalinda Rivera
Subject: Minitrans /Return Authorization # 899

Amy,

Please find attached the Continental AWB 005 2669 4452, Invoice No. 424, RMT Nos. 2359 and 2360 as well as the Wip Test results of eight ministrans. This information is also included with the shipment.

Thanks and regards


Rosalinda Rivera
MCA Import/Export

RADIOACTIVE MATERIAL TRANSFER



SHADED AREAS FOR CONTROLLERS USE ONLY
NOTE: THE "SHIPPED TO" MANAGER MUST SIGN ALL COPIES UPON
RECEIPT OF THE SOURCE(S) AND REMOVE THE SOURCE(S) FROM "IN
TRANSIT" ON THE RADIATION SOURCE CONTROL LISTING

R 2359

SHIPPED FROM		CODE NUMBER				SHIPPED TO		CODE NUMBER				SHIPPED VIA	
EMZ		8 3 1 2				EMR		8 1 2 3 0				AIR	
MANUFACTURER'S SIGNATURE		DATE		MANAGER'S SIGNATURE				DATE		FOR CONTROLLERS USE ONLY TRANSACTION DATE			

SCHLUMBERGER PART NUMBER	ASSET I.D.	ASSET SERIAL NUMBER	DESCRIPTION	M & S QTY	UNIT COST	AMOUNT	ACCOUNT
H541470	EMTR-F	4209	MINITRON	1			
H541470	EMTR-F	4351	MINITRON	1			
H541470	EMTR-F	4432	MINITRON	1			
H541470	EMTR-F	4355	MINITRON	1			
H541470	EMTR-F	4283	MINITRON	1			
RETURN AUTHORIZATION NUMBER					599		
"MINITRON TYPE (S) RETURNED AS PER GUARANTEE".							

IMPORTANT NOTICE TO RECEIVING LOCATION: If you do not receive this material within a reasonable shipment period, notify the sending location by telephone so that tracing procedures and claims may be initiated immediately. The Radiation Safety Officer and/or the HSE Manager should also be notified.

FOR CONTROLLERS USE ONLY					TOTAL
ACCOUNT NUMBER	LOCATION CODES		AMOUNT		
	DEBIT	CREDIT			



DISTRIBUTION: COPY 1 - Receiving Location
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COPY 2 - Division
COPY 5 - As Needed

COPY 3 - HSE Manager
COPY 6 - Packing Slip

RADIOACTIVE MATERIAL TRANSFER

SWS 200 C (1/74)



SHADED AREAS FOR CONTROLLERS USE ONLY
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RECEIPT OF THE SOURCE(S) AND REMOVE THE SOURCE(S) FROM IN
TRANSIT ON THE RADIATION SOURCE CONTROL LISTING

R 2360

SHIPPED FROM		CODE NUMBER		SHIPPED TO		CODE NUMBER		SHIPPED VIA	
SMX		0 3 1 2		EMX		8 1 2 3 0		2TR	
MANAGER'S SIGNATURE		DATE		MANAGER'S SIGNATURE		DATE		FOR CONTROLLERS USE ONLY TRANSACTION DATE	

SCHLUMBERGER PART NUMBER	ASSET I.D.	ASSET SERIAL NUMBER	DESCRIPTION	M & S QTY	UNIT COST	TRANSACTION DATE			
						AMOUNT	ACCOUNT		
H257820	MMR-C	5111	MINITRON	1					
H257820	MMR-C	7987	MINITRON						
H257820	MMR-C	9055	MINITRON	1					

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FOR CONTROLLERS USE ONLY				TOTAL
ACCOUNT NUMBER	LOCATION CODES		AMOUNT	
	DEBIT	CREDIT		



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COPY 2 - Division
COPY 5 - As Needed
COPY 3 - HSE Manager
COPY 6 - Packing Slip

LUTS Z CABEZA

MUI REAM MUI

Continental
2777 ALLEN PARKWAY
DALLAS, TEXAS 75210

P. 81

Have the same safety.
the company of

AUG-20-96 10:15:30
Aug-06-96 11:33A NSSI

SCHLUNBERGER HEATCO

FHA NO. 020 200 04 20
713 641-6103

P.04
-- 1.2 --

MONITORING SERVICES

P O BOX 500440

HOUSTON, TEXAS 77250-0640

HOUSTON, TEXAS 77250-0640

413
SCHLUMBERGER OFFSHORE SERV-SMX
BANJA DE SAN HIPOLITO 96-102
11299 MEXICO OF MEXICO
RTM: POSTAL 57937
LOCATION 1071

SCHLUMBERGER OFFSHORE SEN
APORTA0053-937

RTM: A PINTO
LOCATION

ASSAYED BY C16

WIPE BY

LEAK TEST RESULTS-03-19-96

BKG CPM= 10

ASSAY	FILE PROJECT CODE NUMBER	SERIAL	DATE OF WIPE	ISOTOPE	GROSS CPM	NET CPM	EFF CPM	DPM	MICROCURIES
000396163	-25579 MNTN	7987	07-16-96	H-3	71	53	0.596	89	4.01E-05
000396164	-25580 MNTN	9111	07-11-96	H-3	104	86	0.596	144	6.50E-05
000396165	-25581 MNTN	4355	07-16-96	H-3	29	11	0.596	18	8.31E-06
000396166	-25582 MNTN	4351	07-16-96	H-3	1087	909	0.596	1659	7.47E-04
000396167	-25583 MNTN	4432	07-09-96	H-3	244	226	0.596	379	1.71E-04
000396168	-25584 MNTN	4209	07-16-96	H-3	339	321	0.596	539	2.43E-04
000396169	-25585 MNTN	9055	05-06-96	H-3	130	112	0.596	180	8.46E-05

HOUSTON, TEXAS 77258-0648

LEAK TEST REPORT

413
SCHLUMBERGER OFFSHORE SERV-SMX
BAHIA DE SAN HIPOLITO 56-102
11300 MEXICO , OF MEXICO
ATTN: POSTAL 55937
LOCATION 1071

SCHLUMBERGER OFFSHORE SER
APARTADO53-937

ATTN: M PINTO
LOCATION

ASSAYED BY CTG

WIPE BY

LEAK TEST RESULTS 06-01-19.96

BKG CPM = 18

ASSAY	FILE CODE	PROJECT NUMBER	SERIAL	DATE OF WIPE	ISOTOPE	GROSS CPM	MET CPM	EFF CPM	DPM	MICROCURIES
06019689	-16843	CSR-J	787	11-30-95	CS-137	35	17	0.995	17	7.70E-06
06019690	-25273	MCR-F	2254	12-20-95	AM-241	30	12	1.320	9	4.10E-06
06019691	-25274	CSR-J	8265	11-30-95	CS-137	25	7	0.995	7	3.17E-06
06019692	-25275	MMTR	8725	04-08-96	H-3	28	10	0.596	17	7.56E-06
06019693	-25276	MMTR	→4283	04-08-96	H-3	56	38	0.596	64	2.87E-05 ←

RADIOACTIVE MATERIAL TRANSFER

SWS-2680-C (11/92)



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R 2359

SHIPPED FROM		CODE NUMBER				SHIPPED TO		CODE NUMBER					SHIPPED VIA	
SIX		8 3 1 2				PMR		6 1 2 3 0					AIR	
MANAGER'S SIGNATURE		DATE				MANAGER'S SIGNATURE		DATE					FOR SHIPPER USE ONLY TRANSFER ON DATE	

SCHLUMBERGER PART NUMBER	ASSET I.D.	ASSET SERIAL NUMBER	DESCRIPTION	M & S QTY	UNIT COST	AMOUNT	ACCOUNT
HS41470	MINTR-F	4209	MINITRON	1			
HS41470	MINTR-F	4351	MINITRON	1			
HS41470	MINTR-F	4432	MINITRON	1			
HS41470	MINTR-F	4355	MINITRON	1			
HS41470	MINTR-F	4283	MINITRON	1			
RETURN AUTHORIZATION NUMBER					899		
"MINITRON TUBE(S) RETURNED AS PER GUARANTEE".							

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FOR CONTROLLERS USE ONLY				TOTAL
ACCOUNT NUMBER	LOCATION CODES		AMOUNT	
	DEBIT	CREDIT		



DISTRIBUTION: COPY 1 - Receiving Location
COPY 4 - Shipping Location

COPY 2 - Division
COPY 5 - As Needed

COPY 3 - HSE Manager
COPY 6 - Packing Slip

INVOICE AND DECLARATION VALUE

SCHLUMBERGER OFFSHORE SERVICES (MEXICO) N.V.

FROM: SCHLUMBERGER OFFSHORE SERVICES (MEXICO) N.V.
 Melchor Ocampo No.193, Torre "A" Noveno Piso
 Col. Veronica Anzures, 11300 México, D.F., RFC.: SOS-931206-AJ7

INVOICE OF

SHIP TO: EMR PHOTOELECTRIC CO SMITH AIR
 20 WALLACE ROAD
 PRINCENTON JUNCTION, NJ 08550
 U.S.A.
 ATT'N: AMY POLLOCK
 RETURN AUTHORIZATION NUMBER. 899

INVOICE Nº SMDX-EMR 424/96
 DATE: 08/19/96
 CODE: DEFINITIVO

SHIP VIA: AIRFREIGHT

PART. NUM.	DESCRIPTION OF GOODS	QTY	UNIT PRICE	VALUE US DOLLARS
	MINITRON S/N 7987	1	250.00	250.00
	MINITRON S/N 9111	1	250.00	250.00
	MINITRON S/N 4355	1	250.00	250.00
	MINITRON S/N 4351	1	250.00	250.00
	MINITRON S/N 4432	1	250.00	250.00
	MINITRON S/N 4209	1	250.00	250.00
	MINITRON S/N 9055	1	250.00	250.00
	MINITRON S/N 4283	1	250.00	250.00
	TOTAL		2,000.00	2,000.00
	Value only for custom purposes.....			
	This invoice is true and correct in all particulars.			
	ATENTAMENTE  ROSALINDA RIVERA MCA IMPORT/EXPORT ADMINISTRATOR			