

General Chemical Corporation



11300 Philadelphia Pike  
Claymont, Delaware 19703-2712  
(302) 792-8500

January 10, 1991

Mr. Glenn Roberts  
Health Physicist  
US Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406

CERTIFIED LETTER  
RETURN RECEIPT REQUESTED  
No. P 416 994 856

RE: Inspection of January 8, 1991

Dear Mr. Roberts:

As a follow-up to your inspection of the General Chemical facility on January 8, 1991, enclosed please find copies of "Physical Inventory Records" for the years 1986 to 1990. These records were actively maintained by Mr. Herbert Albrecht and were kept on file in his office. As was pointed out during your inspection, Mr. Albrecht was the Facility Radiation Officer until December 31, 1990 and maintained all of the NRC files in good working order.

Concerning the NRC FORM 3 posting, we have located the revised NRC FORM 3 with reference to Material Licence location and 10 CFR Parts 19 & 20 at our North and South Plant Gatehouse bulletin board. In addition to this, we immediately moved the two new sources that were recently purchased, which you observed in the Electrical Motor Store Room to a secure and locked, limited access, "Nuclear Material Room" located in our South Plant Storehouse.

Should you have any additional questions, please contact me at (302) 792-8741.

Very truly yours,

A handwritten signature in cursive script that reads "Joseph J. Hardman".

Joseph J. Hardman, P.E.  
Radiation Officer

ENCLOSURES

9102060069 910125  
REG1 LIC30  
07-16499-01 PDR

D <sub>3</sub>	J	F	M	A	M	J	J	A	S	O	N	D
7/16/75 ABS SODIATION TANK Density instrument (671) Model 5190 (MA 1127) 200 Millicurie, Ce 137			X			✓			X		X	
7/16/75 ABS Gasser Tank Density instrument (672) Model 5190 (MA 1110) 200 Millicurie, Ce 137			X			✓			Y		X	
12/19/79 Hypo Gasser Tank Density instrument (B-2191) Model 5190 (MA 5958) 200 Millicurie, Ce 137			X			✓			Y		X	X
5/28/80 F. sulfonic Process Density instrument (B-1382) Model 5191 (MA 6938) 100 Millicurie, Ce 137 *			X			✓			Y		X	
8/11/80 Sodium Thiosulfate Crystallizer Density instrument (B-1407) Model 5191 (MA 6966) 1000 Millicurie, Ce 137 *			X			✓			X		X	
3/7/84 Ammo Hypo Gasser Density instrument (B-84) Model 5201 (GB-0364) 100 Millicurie, Ce 137			X			✓			X		X	
2/5/85 Ammo Hypo Gasser Density instrument (B-261) Model 5201 (AA 0346) 100 Millicurie, Ce 137			X			✓			Y		Y	

\* 1 Curie  
 KR HF SH NORTH SERIAL  
 7062B 21636A ✓ X X X  
 7062E 21636B ✓ X Y X

Dt	J	F	M	A	M	J	J	A	S	O	N	D
7/16/75 ABS SODIATION TANK Density instrument (671) Model 5190 (MA 1127) 200 Millicurie, Ce 137			X			X			✓			X
7/16/75 ABS Gasser Tank Density instrument (672) Model 5190 (MA 1110) 200 Millicurie, Ce 137			X			X			✓			X
12/19/79 Hypo Gasser Tank Density instrument (B-2191) Model 5190 (MA 5958) 200 Millicurie, Ce 137			X			X			✓			X
5/28/80 F: sulfonic Process Density instrument (B-1382) Model 5191 (MA 6938) 100 Millicurie, Ce 137 *			X			X			✓			X
8/11/80 Sodium Thiosulfate Crystallizer Density instrument (B-1407) Model 5191 (MA 6966) 1000 Millicurie, Ce 137 *			X			X			✓			X
3/7/84 Ammo Hypo Gasser Density instrument (B-84) Model 5201 (GB-0364) 100 Millicurie, Ce 137			X			X			✓			X
2/5/85 Ammo Hypo Gasser Density instrument (B-261) Model 5201 (AA 0346) 100 Millicurie, Ce 137			X			X			✓			X

\* 1 Curie KR HF SH Nath dual ⊕  
 7062B 21636A X ✓ X  
 7062B 21636B X ✓ X

Dt	J	F	M	A	M	J	J	A	S	O	N	D
7/16/75 ABS SODIATION TANK Density instrument (671) Model 5190 (MA 1127) 200 Millicurie, Ce 137		✓				✓			X			X
7/16/75 ABS Gasser Tank Density instrument (672) Model 5190 (MA 1110) 200 Millicurie, Ce 137		✓				✓			X			X
12/19/79 Hypo Gasser Tank Density instrument (B-2191) Model 5190 (MA 5958) 200 Millicurie, Ce 137			✓			X		X				X
5/28/80 Fl sulfonic Process Density instrument (B-1382) Model 5191 (MA 6938) 1000 Millicurie, Ce 137 *			✓			X			X			X
8/11/80 Sodium Thiosulfate Crystallizer Density instrument (B-1407) Model 5191 (MA 6966) 1000 Millicurie, Ce 137 *			✓			X		X				X
3/7/84 Anno Hypo Gasser Density instrument (B-84) Model 5201 (GB-0364) 100 Millicurie, Ce 137			✓			X		X				X
2/5/85 Anno Hypo Gasser Density instrument (B-261) Model 5201 (AA 0346) 100 Millicurie, Ce 137			✓			X		X				X

\* Millicurie  
 Kay-Ray (HF ST) NORTH  
 Model serial  
 7062B 21636A  
 7062B 21636B  
 (50 mci)  
 ← Leak checked 4/15/87

Don BRYAN  
 (512) 836-0801

Date	J	F	M	A	M	J	J	A	S	O	N	D
7/16/75 ABS SODIATION TANK Density instrument (671) Model 5190 (MA 1127) 200 Millicurie, Ce 137			✓				✓				✓	
7/16/75 ABS Gasser Tank Density instrument (672) Model 5190 (MA 1110) 200 Millicurie, Ce 137			✓				✓				✓	
12/19/79 Hypo Gasser Tank Density instrument (B-2191) Model 5190 (MA 5958) 200 Millicurie, Ce 137			✓				✓				✓	
5/28/80 F. sulfonic Process Density instrument (B-1382) Model 5191 (MA 6938) 100 Millicurie, Ce 137 *			✓				✓				✓	
8/11/80 Sodium Thiosulfate Crystallizer Density instrument (B-1407) Model 5191 (MA 6966) 1000 Millicurie, Ce 137 *			✓				✓				✓	
3/7/84 Ammo Hypo Gasser Density instrument (B-84) Model 5201 (GB-0364) 100 Millicurie, Ce 137			✓				✓				✓	
2/5/85 Ammo Hypo Gasser Density instrument (B-261) Model 5201 (AA 0346) 100 Millicurie, Ce 137			✓				✓				✓	
* Curie KR 7062B 21636A							✓				✓	
* KR 7062B 21636B							✓				✓	

*model serial*  
*holder*  
*source*

\* led checked 4/15/87

NUCLEAR REGULATORY LICENSE  
(07-16499)

Physical inventory record

Year 1986

E	Date	Month											
		J	F	M	A	M	J	J	A	S	O	N	D
7/16/75	2/6		✓			✓		✓				✓	
ABS SODIATION TANK Density instrument (671) Model 5190 (MA 1127) 200 Millicurie, Ce 137			✓			✓		✓				✓	
7/16/75	2/6		✓			✓		✓				✓	
ABS Gasser Tank Density instrument (672) Model 5190 (MA 1110) 200 Millicurie, Ce 137			✓			✓		✓				✓	
12/19/79	2/7		✓			✓		✓				✓	
Hypo Gasser Tank Density instrument (B-2191) Model 5190 (MA 5958) 200 Millicurie, Ce 137			✓			✓		✓				✓	
5/28/80	2/3		✓			✓		✓				✓	
Fluosulfonic Process Density instrument (R-1382) Model 5191 (MA 6938) 1.0 Millicurie, Ce 137 *			✓			✓		✓				✓	
8/11/80	2/7		✓			✓		✓				✓	
Sodium Thiosulfate Crystallizer Density instrument (B-1407) Model 5191 (MA 6966) 1000 Millicurie, Ce 137 *			✓			✓		✓				✓	
3/7/84	2/7		✓			✓		✓				✓	
Ammo Hypo Gasser Density instrument (B-84) Model 5201 (GB-0364) 100 Millicurie, Ce 137			✓			✓		✓				✓	
2/5/85			✓			✓		✓				✓	
Ammo Hypo Gasser Density instrument (B-261) Model 5201 (AA 0346) 100 Millicurie, Ce 137			✓			✓		✓				✓	

\* 1 Curie

TEXAS NUCLEAR CORPORATION  
 RAMSEY ENGINEERING COMPANY  
 AUSTIN, TX 78766  
 (512) 836-0801

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<u>DATE</u> <u>PURCHASED</u>	<u>MODEL</u> <u>#</u>	<u>ISOTOPE</u> <u>(ACTIVITY)</u>	<u>SOURCE</u> <u>SERIAL #</u>	<u>SOURCE</u> <u>HEAD #</u>	<u>LAST</u> <u>LEAK CH</u>
(A) 7/75	5190	Cs-137(200 mCi)	MA1127	671	2/86 1/8
(B) 7/75	5190	Cs-137(200 mCi)	MA1110	672	2/86 1/8
(C) 12/79	5190	Cs-137(200 mCi)	MA5958	B2191	2/86 1/8
(D) 5/80	5191	Cs-137( 1 Ci )	MA6938	B1382	2/86 1/8
(E) 8/80	5191	Cs-137( 1 Ci )	MA6966	B1407	2/86 7/8
(F) 3/84	5201	Cs-137(100 mCi)	B84	GB0364	2/86 3/8
(G) 2/85	5201	Cs-137(100 mCi)	B261	AA0346	5/8

- (A) ABS SODIATION TANK
- (B) ABS GASSER TANK
- (C) HYPO GASSER TANK
- (D) FLUOSULFONIC PROCESS
- (E) SODIUM THIOSULFATE CRYSTALLIZER
- (F) AMMO HYPO GASSER
- (G) AMMO HYPO GASSER

*Med Annual*

*Clayport DE*

TEXAS NUCLEAR CORPORATION  
RAMSEY ENGINEERING COMPANY  
AUSTIN, TX 78766  
(512) 836-0801

<u>DATE PURCHASED</u>	<u>MODEL #</u>	<u>ISOTOPE (ACTIVITY)</u>	<u>SOURCE SERIAL #</u>	<u>SOURCE HEAD #</u>	<u>LAST LEAK CHE</u>
(A) 7/75	5190	Cs-137(200 mCi)	MA1127	671	<i>2/6/86</i> 1/80
(B) 7/75	5190	Cs-137(200 mCi)	MA1110	672	<i>2/6/86</i> 1/80
(C) 12/79	5190	Cs-137(200 mCi)	MA5958	B2191	<i>2/7/86</i> 1/80
(D) 5/80	5191	Cs-137( 1 Ci )	MA6938	B1382	<i>2/3/86</i> 1/80
(E) 8/80	5191	Cs-137( 1 Ci )	MA6966	B1407	<i>2/7/86</i> 7/80
(F) 3/84	5201	Cs-137(100 mCi)	B84	GB0364	<i>2/7/86</i> 3/8-
(G) 2/85	5201	Cs-137(100 mCi)	B261	AA0346	5/85

- (A) ABS SODIATION TANK
- (B) ABS GASSER TANK
- (C) HYPO GASSER TANK
- (D) FLUOSULFONIC PROCESS
- (E) SODIUM THIOSULFATE CRYSTALLIZER
- (F) AMMO HYPO GASSER
- (G) AMMO HYPO GASSER



LEAK TEST CERTIFICATION

IT IS IMPERATIVE THAT THIS SHEET BE SIGNED, DATED, AND RETURNED WITH THE LEAK TEST KIT. WITHOUT IT, WE MAY NOT BE ABLE TO IDENTIFY AND ANALYZE YOUR SAMPLE. PLEASE BE SURE TO VERIFY THE INFORMATION BELOW. IF ANY CHANGES OR CORRECTIONS ARE REQUIRED, PLEASE MAKE THEM IN THE SPACE PROVIDED.

Company Name: ALLIED CHEMICAL  
Address: Delaware Valley Works - South  
Philadelphia Pike  
Claymont, DE 19702

Contact: Herbert Albrecht *Albrecht*  
Phone: (302) 792-8564

Manufacturer: TX

Model: 5198

Serial No.: 671

Isotope: Cs-137

Activity: 600 mCi

Date: 2/6/86

Signed: H B Albrecht

TEXAS ELECTRONIC CORPORATION  
KIMBLE ENGINEERING COMPANY  
5000 LYNNWAY BOX 4887  
HOUSTON, TX 77260

NOV 19 1985

LABORATORY CERTIFICATION

IT IS ESSENTIAL THAT THIS SHEET BE SIGNED, DATED, AND  
RETURNED WITH THE SAMPLE TO THE LABORATORY. WITHOUT IT, WE MAY  
BE UNABLE TO IDENTIFY AND EVALUATE YOUR SAMPLE.  
PLEASE BE CAREFUL TO VERIFY THE INFORMATION BELOW. IF ANY  
CONDITIONS OR RESTRICTIONS ARE APPLICABLE, PLEASE MAKE THEM  
KNOWN BY CHECKING THE BOXES.

Company Name: ALLIED CHEMICAL  
Address: Delaware Valley Works - South  
Philadelphia Pike  
Claymont, DE 19708

Contact: Herbert Albrecht  
Phone: (302) 792-8564

*Albrecht*

Manufacturer: TV

Model: 5180

Serial No.: 672

Accessories: 2A-117

Sensitivity: 230 mV

Date: 2/6/86

By: H B Albrecht

LABORATORY FOR ANALYSIS OF  
POLYMER DEGRADATION PRODUCTS  
1140 UNIVERSITY BLVD. BOX 8667  
CLAYMONT, DE 19708

TEL: 302-792-8564

LEAD TEST CERTIFICATION

THIS CERTIFICATE OF ANALYSIS MUST BE SIGNED, DATED, AND  
RETURNED TO THE LEAD TEST UNIT. WITHOUT IT, WE MAY  
NOT BE ABLE TO IDENTIFY AND ANALYZE YOUR SAMPLE.  
PLEASE BE SURE TO VERIFY THE INFORMATION BELOW. IF ANY  
CORRECTIONS ARE REQUIRED, PLEASE MAKE THEM  
BEFORE WE BEGIN ANALYSIS.

Company Name: ALLIED CHEMICAL  
Address: Delaware Valley works - South  
Philadelphia Pike  
Claymont, DE 19703

Contact: Margaret Albrecht *Hubert Albrecht*  
Phone: (302) 792-8564

Manufacturer: *IN*

Model: *5124*

Serial No.: *2212*

Lot No.: *CA-107*

Activity: *228 mCi*

Date: 2/7/86

Signature: *H G Albrecht*

ALLIED CHEMICAL COMPANY  
LEAD TEST UNIT - CLAYMONT  
PHILADELPHIA PIKE  
CLAYMONT, DE 19703

REV. 10, 1985

LEAK TEST CERTIFICATION

IT IS IMPERATIVE THAT THIS SHEET BE SIGNED, DATED, AND RETURNED WITH THE LEAK TEST KIT. WITHOUT IT, WE MAY NOT BE ABLE TO IDENTIFY AND ANALYZE YOUR SAMPLE. PLEASE BE SURE TO VERIFY THE INFORMATION BELOW. IF ANY CHANGES OR CORRECTIONS ARE REQUIRED, PLEASE MAKE THEM IN THE SPACE PROVIDED.

Company Name: ALLIED CHEMICAL  
Address: Delaware Valley Works - South  
Philadelphia Pike  
Claymont, DE 19703

Contact: Herbert Albrecht  
Phone:

(302) 792-8564 ALBRECHT

Source serial # MA 6938

Manufacturer: TW

Model: 5121

Serial No.: 51262

Isotope: Cs-137

Activity: 1 Ci

Date:

2/3/86

Signed:

Herbert G. Albrecht

TEXAS NUCLEAR CORPORATION  
Ramsey Engineering Company  
Post Office Box 9267  
Austin, TX 78766

Nov 18, 1985

LEAK TEST CERTIFICATION

IT IS IMPERATIVE THAT THIS SHEET BE COMPLETED AND RETURNED  
WITH THE LEAK TEST KIT. WITHOUT IT, WE MAY NOT BE ABLE TO  
IDENTIFY AND ANALYZE YOUR SAMPLE.

YOUR COMPANY NAME Allied Corporation  
ADDRESS Philadelphia Pike Claymont DE 19703  
MODEL NO. OF DEVICE 5191 SERIAL NO. B1407  
ISOTOPE CS-137 ACTIVITY 1 Ci  
DATE 2/7/86 SIGNED Herbert G. Albrecht

LEAK TEST CERTIFICATION

IT IS IMPERATIVE THAT THIS SHEET BE COMPLETED AND RETURNED WITH THE LEAK TEST KIT. WITHOUT IT, WE MAY NOT BE ABLE TO IDENTIFY AND ANALYZE YOUR SAMPLE.

YOUR COMPANY NAME Allied Corporation  
ADDRESS Philadelphia Pike Claymont DE  
MODEL NO. OF DEVICE 5201 SERIAL NO. 884  
ISOTOPE Cs-137 ACTIVITY 100 mCi  
DATE 2/7/86 SIGNED H B Allright