

# TODD

## RESEARCH & TECHNICAL DIVISION

P. O. Box 1600 · Galveston, Texas 77550 · (713) 744-7141

181-00100

December 18, 1973

Mr. R. V. Gilmer  
Union Carbide Corporation  
Carbon Products Division  
P.O. Box 1600  
Lawrenceburg, Tennessee

Dear Rex:

Pursuant to Article 5 Contract 70-743-1 between Union Carbide Corporation and Todd Research & Technical Division, I certify that said Radioactive Waste from the Lawrenceburg facility has been duly buried at Barnwell, South Carolina in accordance with all applicable laws and regulations pertaining thereto. The burial was witnessed by the undersigned on November 19, 1973 and recorded on the attached sheets by T. McCord, (Burial) Site Manager for Chem Nuclear Services.

  
T. J. Keane, Supervisor  
Nuclear Services Dept.

TJK:m11:37:73 HP

Attachments: Chem Nuclear Services Radioactive  
Shipment Record Form, 8 pages

cc: R. R. Allen  
R. B. Wilson  
Central Files

A/133

# Ches-Nuclear Services, Inc.

## RADIOACTIVE SHIPMENT RECORD FORM

SOURCE: *United Nations Library - Louisbourg, 1947*

Research & Technical Division Date 11-17 1973

## INSTRUCTIONS

Divide complete this form and distribute as follows:

2. **Molded Optical and Thin Copy to Clear-Nuclear Services Inc.**

P.O. Box 6333, Columbia, S.C. 29260

**C. Katakana (Katakana Copy)**

Class enter each isotope known to be present in a container (up to three) on separate lines. For three or more isotopes or mixed isotope products, enter MFP in the isotope column. List the isotopes mentioned in 2 above on the shipping label.

Use the microscope mentioned in 2 above on the shipping label.

Your Inspector or a Chem-Nuclear Services, Inc. employee must initial the last column after inspection in accordance with Title 10 CFR Part 20, as follows:

CAUTION—RADIOACTIVE MATERIAL

3. Each package is marked with

See paragraph 20.203, (c)(1). Markers will be supplied by Chem-Nuclear Services, Inc., on request.

b. Each package is marked to show the isotopes, microcurie quantities, and date of measurement, see paragraph 20.203 (f)(2).

3. Each package has been encased by radiation survey instruments at surface (2 in.) and one meter (39.4 in.) and sealed. Later survey results in Column No. 4.

Disclaimer: Title to all materials, whether or not they were previously Government-owned, contained in waste furnished for disposal under this contract (except material which is regulated by Section 52 of the Atomic Energy Act of 1954, as amended, to be owned by the Government) shall be deemed to be vested in Chem-Nuclear Services, Inc. immediately upon acceptance of such material by Chem-Nuclear Services, Inc. from the shipper or from the common carrier. The Government or shipper shall have no right to the recovery of any materials contained in such waste nor any credit for their potential value.

Pkg. No.	Mtr. hr	Surface	One Meter	Smear Results	Isotopes	By products	Militarie	SNIT	Grams	Source	Pounds	Cubic Feet	Cadons	Container Weight	Monitor
7		less H <sub>2</sub> O.5	less H <sub>2</sub> O.1	41000/1	41000/1	N/A				N/A		36.0	N/A		A
5												37.5			A
3												9.0			A
2												9.0			A
0												12.0			A
-25												7.35			A

Handwritten notes on the page:

- NE-2 & 2 hours
- 11-19-73
- Trans. #6
- Quoted
- 414.1
- 110.85
- 4800#

# RADIOACTIVE SHIPMENT RECORD FORM

ORIGIN: *United States - Chemical Products Division - Lawrenceville, Tenn*

FOR: *Radio Research & Technical Division* Date *11-16* 19 *73*

*Radio Research & Technical Division - Lawrenceville, Tenn* Page 1 of *1*

## INSTRUCTIONS

Use complete this form and distribute as follows:  
 Mail original and 17th copy to Chem-Nuclear Services Inc.  
 P.O. Box 6141, Columbia, S.C. 29206  
 Hand 16th copy to truck driver.  
 Retain 17th copy.

*See 4 and 5  
 See 16  
 See 17*

Each entry on this form is to be placed in a container (up to three) on separate lines. For three or more isotopes or mixed isotope products, enter 17th in the isotope column.  
 If the isotopes mentioned in 2 above on the shipping label.  
 or separator of a Chem-Nuclear Services, Inc. employer must initial the last column after inspection in accordance with Title 10 CFR Part 20, as follows:

## CAUTION - RADIOACTIVE MATERIAL

Each package is marked with

see paragraph 20.203, (2) (1). Markers will be supplied by Chem-Nuclear Services, Inc., on request.  
 Each package is marked to show the isotope, microcurie quantities, and date of measurement, see paragraph 20.203 (2) (2).

Each package has been monitored by radiation survey instruments at surface (2 in.) and sea water (39.4 in.) and sealed. Enter survey results in Column No. 4.

Shipment: Title to all materials, whether or not they were previously Government-owned, contained in waste furnished for disposal under this contract (except material which is titled by Section 52 of the Atomic Energy Act of 1954, as amended, to be owned by the Government) shall be deemed to be vested in Chem-Nuclear Services, Inc. from delivery upon acceptance of such material by Chem-Nuclear Services, Inc. from the shipper or from the common carrier. The Government or shipper shall have no right in the recovery of any materials contained in such waste nor any credit for their potential value.

No.	Surface	Net Wt. One Meter	Net Wt. Results	Isotopes	By Products	SNM	Source	Cubic Feet	Gallons	Container Weight	Notes
2	<i>1/2 H<sub>2</sub>O, 5 H<sub>2</sub>O, 1</i>	<i>1000 g</i>	<i>1000 g</i>	<i>1000 g</i>	<i>N/A</i>	<i>15</i>	<i>N/A</i>	<i>397.0</i>	<i>N/A</i>	<i>7000</i>	<i>X</i>
3						<i>15</i>		<i>471.0</i>		<i>5000</i>	<i>X</i>
4						<i>15</i>		<i>2.5</i>		<i>100</i>	<i>X</i>
5						<i>15</i>		<i>22.5</i>		<i>1000</i>	<i>X</i>
6						<i>15</i>		<i>7.0</i>		<i>100</i>	<i>X</i>
7						<i>15</i>		<i>7.0</i>		<i>100</i>	<i>X</i>
8						<i>15</i>		<i>40.5</i>		<i>1000</i>	<i>X</i>
9						<i>15</i>		<i>12.0</i>		<i>1000</i>	<i>X</i>
10						<i>15</i>		<i>84.0</i>		<i>1000</i>	<i>X</i>
11						<i>15</i>		<i>128.0</i>		<i>1000</i>	<i>X</i>
12						<i>15</i>					
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Shipper

Received by

# NATIONAL SHIPMENT RECORD FORM

ORIGIN: *United States - (General) Products Division - Langhorne, Pa.*

SHIPPER: *Food Research & Technical Division Date 11-16-1973*

UNION: *United States - (General) Products Division - Langhorne, Pa.* Page 1 of 3

## INSTRUCTIONS

Please complete this form and distribute as follows:  
 1. Mail original and 11th copy to Chem-Nuclear Services Inc.  
 2. P.O. Box 6000, Columbia, S.C. 29206  
 3. 11th copy to truck driver.  
 4. 11th copy to carrier.

Enter each isotope known to be present in a container (up to three) on separate lines. For three or more isotopes or mixed isotope products, enter MFP in the isotope column. List the isotopes in addition to 1 above on the shipping label.

Your Inspector or a Chem-Nuclear Services, Inc. employee must initial the last column after inspection in accordance with Title 10 CFR Part 29, as follows:

## CAUTION - RADIOACTIVE MATERIAL

See paragraph 20.203. (2)(1). Markers will be supplied by Chem-Nuclear Services, Inc., on request. Each package is marked to show the isotopes, microcurie quantities, and date of measurement, see paragraph 20.203 (2)(2).

c. Each package has been monitored by radiation survey instruments at surface (2 in.) and one meter (39.4 in.) and smeared. Enter smear results in Column No. 4.

Plutonium: Title to all materials, whether or not they were previously Government-owned, contained in waste furnished for disposal under this contract (except material which is accepted by Section 52 of the Atomic Energy Act of 1954, as amended, to be owned by the Government) shall be deemed to be vested in Chem-Nuclear Services, Inc. immediately upon acceptance of such material by Chem-Nuclear Services, Inc. from the shipper or from the common carrier. The Government or shipper shall have no right to the recovery of an materials contained in such waste nor any credit for their potential value.

PKT. No.	Net wt	Surface	One Meter	Results	Isotopes	By products	Microcurie	SNM	Source	Form	Cable	Collars	Container	Monitor
6	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1	15.5 lbs. 1
7														
16														
20														
31														
32														
34														
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36														
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42														

Shipper: *Food Research & Technical Division* Receiver: *Food Research & Technical Division*

# RADIOACTIVE SHIPMENT RECORD FORM

Chem-Nuclear Services, Inc.

ORIGIN: *United States - (Chem-Nuclear Services, Inc.)*

TO: *Research & Technical Division Date 11-16-73*

FROM: *General Products Division - (Chem-Nuclear Services, Inc.)*

## INSTRUCTIONS

*See 8 and 10*  
*11-17-73*

Make complete this form and distribute as follows:  
1. Mail original and 1 copy to Chem-Nuclear Services, Inc.  
2. P.O. Box 244, Columbia, S.C. 29206  
3. Send 1 copy to truck driver.  
4. Retain 1 copy.

Use extra when isotope known to be present in a container (up to three) on separate lines. For three or more isotopes or mixed isotope products, enter NRP in the isotope column.  
At the isotopes mentioned in 2 above on the shipping label.  
For inspection of a Chem-Nuclear Services, Inc. employee must fill in the last column after inspection in accordance with Title 10 CFR Part 20, as follows:  
Each package is marked with

## CAUTION - RADIOACTIVE MATERIAL

See paragraph 20.205, (c)(1). Markers will be supplied by Chem-Nuclear Services, Inc., on request.  
Each package is marked to show the isotopes, microcurie quantities, and date of measurement, see paragraph 20.203 (f)(2).  
Each package has been monitored by radiation survey instruments at surface (3 in.) and one meter (39.6 in.) and smeared. Enter smear results in Column No. 4.  
Label: Title to all materials, whether or not they were previously Government-owned, contained in waste furnished for disposal under this contract (except material which is accepted by Section 52 of the Atomic Energy Act of 1954, as amended, to be owned by the Government) shall be decided to be used in Chem-Nuclear Services, Inc. immediately upon completion of such material by Chem-Nuclear Services, Inc. from the shipper or from the common carrier. The Government or shipper shall have no right to the recovery of any materials contained in such waste nor any credit for their potential value.

No.	Surface	One Meter	Smear Results	Isotopes	By products	SNM	Source	Cubic Feet	Gallons	Weight	Container
14	100% 100% 100%	100% 100% 100%	100% 100% 100%	100% 100% 100%	100% 100% 100%	100% 100% 100%	100% 100% 100%	100% 100% 100%	100% 100% 100%	100% 100% 100%	100% 100% 100%
6						2.5	27.0	18.0	N/A		X
9						2.5	4.0				X
10						2.5	4.5				X
34						2.5	12.0				X
55						2.5	10.0				X
57						2.5	8.0				X
58						2.5	8.0				X
53						2.5	64.0				X
26						2.5	7.5				X
1						2.5	7.35				X
2						2.5	7.35				X
3						2.5	7.35				X
4						2.5	7.35				X
7						2.5	7.35				X
10						2.5	7.35				X
11						2.5	7.35				X
12						2.5	7.35				X
12						2.5	7.35				X
20						2.5	7.35				X
20						2.5	7.35				X

NAVJOALIVE SHIPMENT RECORD FORM

REC. WARD, (AGRIC. LABORATORY) - (AGRIC.) PRODUCTS DIVISION - LABORATORY 1300

[illegible]

INSTRUCTIONS

is complete and form and distribute as follows:  
 100 copies each to Civil Liberties Services Inc.  
 P.O. Box 678, Columbia, S.C., 29206  
 Hand held copy to Frank DeLoach.  
 British Library copy

is that when isotopes known to be present in a container (up to three) on separate lines. For three or more isotopes or mixed isotope products, enter MIP in the fourth column. The isotopes mentioned in 2 above on the shipping label.

CAUTION—RADIOACTIVE MATERIAL

see paragraph 20.205, (C)(1). Altimers will be supplied by Cham-Kulcater Services, Inc., on request. Each package is marked to show the latitudes, microcurrent quantities, and date of measurement, see paragraph 20.203 (D) (+).

Each package has been monitored by radiation survey instruments at surface (2 in.) and one meter (39.4 in.) and surfaced. Error rates results in Column No. 4.

ultimate title to all materials, whether or not they were previously Government-owned, conveyed to waste furnished for disposal under this contract (except materials which is retained by Section 23 of the Atomic Energy Act of 1954, as amended, to be owned by the Government) shall be deemed to be vested in Chem-Nuclear Services, Inc. immediately upon acceptance of such material by Chem-Nuclear Services, Inc. from the shipper or from the common carrier. The Government or shipper shall have no right to the recovery of an amount contained in such waste nor any credit for their potential value.

No.	Meter	Surface	One Meter	Smear Results	Loops	By products	SNN Grams	Source Pounds	Cubic Feet	Gallons	Container Weight	Mortar
36	loss flow .5	loss flow .1	2.1000/in	oc & 83	250	N/A	2.5	N/A	7.35	N/A		X
37							2.5		/			X
38							2.5		x			X
39							2.5		/			X
40							7.5		.			X
41							2.5		v			X
42							2.5		y			X
43							2.5		d.			X
44							7.5		f			X
45							2.5		✓			X
46							2.5		y			X
47							2.5		x			X
48							2.5		v			X
49							2.5		v			X
50							2.5		✓			X
-							2.5		471			K
							135		1091.25			

# Chem-Nuclear Services, Inc.

## RADIOACTIVE SHIPMENT RECORD FORM

SOURCE: Union Carbide Corporation - Carbon Products Division - Laboratory - New York, New York

Upper Top Research & Technical Division Date 19 73

Union Carbide - Carbon Products Division - Laboratory, New York, New York Page 1 of 3 pages

### INSTRUCTIONS

Please complete this form and distribute as follows:

- Mail original and 100% copy to Chem-Nuclear Services, Inc., P.O. Box 4110, Columbia, S.C. 29206
- Hand 100% copy to truck driver.
- Service Company copy

Please enter each isotope known to be present in a container (up to three) on separate lines. For three or more isotopes or mixtures of isotopes, enter MFP in the isotope column. List the isotopes mentioned in 2 above on the shipping label.

Your transporter of a Chem-Nuclear Services, Inc. employee must initial the last column after inspection in accordance with Title 10 CFR Part 20, as follows:

- Each package is marked with
- Each package is marked with
- Each package has been monitored by radiation survey instruments at surface (2 in.) and one meter (30.4 in.) and smeared. Enter smear results in column No. 4.

### CAUTION -- RADIOACTIVE MATERIAL

see paragraph 20.203, (c)(1). Markers will be supplied by Chem-Nuclear Services, Inc. on request.

Each package is marked to show the isotopes, microcurie quantities, and date of measurement; see paragraph 20.203 (c)(4).

c. Each package has been monitored by radiation survey instruments at surface (2 in.) and one meter (30.4 in.) and smeared. Enter smear results in column No. 4. Disclaimer: Title to all materials, whether or not they were previously Government-owned, contained in waste furnished for disposal under this contract (except material which is required by Section 82 of the Atomic Energy Act of 1954, as amended, to be owned by the Government) shall be deemed to be vested in Chem-Nuclear Services, Inc. immediately upon acceptance of such material by Chem-Nuclear Services, Inc. from the supplier or from the common carrier. The Government or shipper shall have no right to the recovery of any materials contained in such waste nor any credit for their potential value.

Pkg. No.	Surface	One Meter	Smear Results	Isotopes	By products	SMM Grams	Source Pounds	Cubic Feet	Gallons	Container Weight	Monitor
-5	less than .5	less than .1	2.100000 mCi 238U	238U	N/A	2.35	N/A	7.35	N/A		X
-6											X
-7											X
-8											X
-13											X
-14											X
-15											X
-16											X
-17											X
-18											X
-19											X
-21											X
-22											X
-23											X
-24											X
-25											X
-26											X
-27											X
-28											X

100% copy to truck driver

# Chem-Nuclear Services, Inc. RADIOACTIVE SHIPMENT RECORD FORM

Office: *United States - Chemical Products Division - Lawrence Livermore Laboratory*

Form: *Form 100 Research & Technical Division Date 19 73*

## INSTRUCTIONS

1. Complete this form and distribute as follows:  
a. Mail original and two copies to Chem-Nuclear Services, Inc.  
b. E.O. Box 2875, Columbia, S.C. 29306  
c. Forward copy to truck driver.  
d. Retain copy.

2. Place either a can (up to three) or separate lines. For three or more isotopes or more isotopes of mixed isotopes, enter N/A in the isotope column.  
3. List the isotope as mentioned in 2 above on the shipping label.  
4. Your inspection of a Chem-Nuclear Services, Inc. employee must initial the last column after inspection in accordance with Title 10 CFR Part 20, as follows:

## CAUTION - RADIOACTIVE MATERIAL

See paragraph 20.2.13, (3)(1). Markers will be supplied by Chem-Nuclear Services, Inc., on request.  
5. Each package is marked to show the isotopes, microcurie quantities, and date of measurement, see paragraph 20.203 (9) (+).  
6. Each package has been measured by radiation survey instruments at surface (2 in.) and one meter (39.4 in.) and smeared. Enter smear results in Column No. 4.  
7. Disposition: Title to all materials, whether or not they were previously Government-owned, contained in waste furnished for disposal under this contract (except material which is accepted by Section 57 of the Atomic Energy Act of 1954, as amended, to be owned by the Government) shall be deemed to be vested in Chem-Nuclear Services, Inc. immediately upon receipt of such material by Chem-Nuclear Services, Inc. From the shipper or from the common carrier. The Government or shipper shall have no right to the recovery of any materials contained in such waste nor any credit for their potential value.

No.	Surface	One Meter	Smear Results	Isotopes	By products	MilliCurie	Grams	SNN	Source	Cubic Feet	Gallons	Container	Monitor
29	15.5 less than 1	1000	1000	N/A	N/A	2.35	N/A	7.35	N/A				
30													
31													
32													
33													
34													
35													
1													

8	40.5												
10	20.0												
11	31.5												
12	12.0												
13	8.5												
15	21.0												
17	58.5												
18	15.0												

Received *Chem-Nuclear Services, Inc.*



Chem-Nuclear Services, Inc.  
RADIOACTIVE SHIPMENT RECORD FORM

PRICE: United Luggage Company Products Division - Luggage & Trunks

Food Research & Technical Division Date 19 75

1/130 Cardiac - Cardiac Products Division - Latentecardine, 3 pages of

# INSTRUCTIONS

INSTRUCTIONS

These complete sets form and distribute as follows:

- 1000 original and 1000 copy to Chain-Nuclear Services Inc.
- 500. Box 540, Columbia, S.C. 29206
- 1000. 1000 copy to truck driver.
- 5000. Primary copy

Lee & Campbell  
11-10-75  
11-10-75

Place either each isotope known to be present in a container (up to three) on separate lines. For three or more isotopes or mixed fissile products, enter HFP in the isotope column. List the isotopes indicated in 2 above on the shipping label. Our Inspector or a Chem-Nuclear Services, Inc. employee must initial the last column after inspection in accordance with Title 10 CFR Part 20, as amended. Each package is marked with

CAUTION - RADIOACTIVE MATERIAL

Each package has been monitored by radiation survey instruments at source (2 lb.) and one meter (39.4 lb.) and separated. Other small residues in Column No. 4.

Each package is marked to show the isotope, radioactive quantities, and date of measurement, see paragraph 20.203 (f) (2).

See paragraphs 20.203, (c) (1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (21), (22), (23), (24), (25), (26), (27), (28), (29), (30), (31), (32), (33), (34), (35), (36), (37), (38), (39), (40), (41), (42), (43), (44), (45), (46), (47), (48), (49), (50), (51), (52), (53), (54), (55), (56), (57), (58), (59), (60), (61), (62), (63), (64), (65), (66), (67), (68), (69), (70), (71), (72), (73), (74), (75), (76), (77), (78), (79), (80), (81), (82), (83), (84), (85), (86), (87), (88), (89), (90), (91), (92), (93), (94), (95), (96), (97), (98), (99), (100), (101), (102), (103), (104), (105), (106), (107), (108), (109), (110), (111), (112), (113), (114), (115), (116), (117), (118), (119), (120), (121), (122), (123), (124), (125), (126), (127), (128), (129), (130), (131), (132), (133), (134), (135), (136), (137), (138), (139), (140), (141), (142), (143), (144), (145), (146), (147), (148), (149), (150), (151), (152), (153), (154), 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(298), (299), (300), (301), (302), (303), (304), (305), (306), (307), (308), (309), (310), (311), (312), (313), (314), (315), (316), (317), (318), (319), (320), (321), (322), (323), (324), (325), (326), (327), (328), (329), (330), (331), (332), (333), (334), (335), (336), (337), (338), (339), (340), (341), (342), (343), (344), (345), (346), (347), (348), (349), (350), (351), (352), (353), (354), (355), (356), (357), (358), (359), (360), (361), (362), (363), (364), (365), (366), (367), (368), (369), (370), (371), (372), (373), (374), (375), (376), (377), (378), (379), (380), (381), (382), (383), (384), (385), (386), (387), (388), (389), (390), (391), (392), (393), (394), (395), (396), (397), (398), (399), (400), (401), (402), (403), (404), (405), (406), (407), (408), (409), (410), (411), (412), (413), (414), (415), (416), (417), (418), (419), (420), (421), (422), (423), (424), (425), (426), (427), (428), (429), (430), (431), (432), (433), (434), (435), (436), (437), (438), (439), (440), 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Pkg. No.	Mt. Hr	Surface	One Meter	Smear Results	Isolates	By products	SNM	Source	Weight	Container	Monitor
9		less than .5 less than .1	7.1000/14	2 x 2 38		N/A	2.35	N/A	5.0	N/A	X
7							2.35		9.0		X
43							2.35		18.0		X
45							2.35		16.0		X
47							2.35		12.0		X
52							2.35		75.0		X
53							2.35		11.5		X
59							2.35		47.0		X
61							2.35		122.0		X
70							2.35		72.5		X