

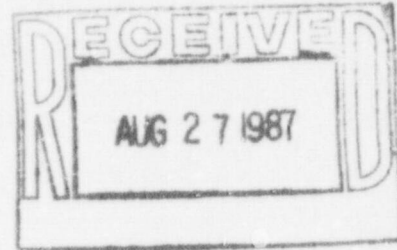
A. B. STILL WEL-SERVICE, INC.

P. O. Box 1198

Phone (918) 352-3533

DRUMRIGHT, OKLAHOMA 74030

August 21, 1987



U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive Suite 1000
Arlington, Texas 76011

Attention: Mr. William L. Fisher

Re: License 35-19935-01
Appendix to your letter dated
June 29, 1987
Notice of Violation
Section 1 and Section 3-A

Gentlemen:

Regarding repeat Violation of Section 1 we have appointed Michael Blevins to the job of making these surveys for each job performed. A. B. Still will audit these surveys at intervals of 90 days to insure they are properly performed.

We are enclosing a complete set of DOT certifications for transportation carriers for each nuclear source we possess. In addition, we are re-including certification of the source carriers.

We hope this will satisfy the requirements stated in your letter dated August 17, 1987.

Respectfully,

A. B. STILL WEL-SERVICE, INC.

A handwritten signature in dark ink, appearing to read "A. B. Still". Below the signature, the name "A. B. Still" is printed in a small, sans-serif font.

ABS:ss
encls

8709030405 870821
REG4 LIC30
35-19935-01 PDR

IC-87/236

IE-07
11



GAMMATRON INC.

P.O. BOX 34042 • HOUSTON, TEXAS 77034 • AREA CODE 713/641-0391

SEALED SOURCE CERTIFICATE

1. PURCHASER A.B. STILL WEL-SERVICE P.O. # A.B. STILL

2. MANUFACTURER GAMMATRON, INC.

3. MODEL AN-HP SERIAL # C-097

4. ACTIVE MATERIAL Am-241 Be

MAXIMUM CONTENT 360 mCi

MINIMUM CONTENT 330 mCi

ACTUAL CONTENT BASED ON WEIGHT INPUT AND

CI/GRAM AS SUPPLIED BY ORNL $\pm 1\%$ 350 mCi

YIELD:

STD _____

GAMMATRON STD 1.04×10^6 NPS

SERIAL # 1.08×10^6 NPS

5. THIS IS TO CERTIFY THAT THIS SOURCE MEETS THE REQUIREMENTS FOR SPECIAL FORM AS DEFINED IN DOT TITLE 49 (173.398) AND THE REQUIREMENTS OF:

ANSI CLASSIFICATION C.44444 SIGNATURE *PC Jones*

TEXAS REGULATIONS PART 36.108 N/A SIGNATURE _____

6. MATERIAL OF CONSTRUCTION 304SS

7. WIPE TEST:

INNER CAPSULE .005 uCi

OUTER CAPSULE .0005 uCi DATE 9/24/84

BY *PC Jones*

8. HELIUM TEST NEG INNER NEG OUTER _____

9. PRESSURE TEST N/A WT. N/A FINAL OUT _____

10. CONTAINER WIPE TEST .0005 uCi

11. TYPE 7A SERIAL # N/R

12. SURFACE 18 INDEX 9 LABEL II

PMC

D.O.T. CERTIFICATION TEST

MODEL CAA-1

I. DESCRIPTION

CAA-1 is a polymerized propylene thermoplastic in cylindrical shape with variable dimensions. A thread hole accommodates an AmBe source that has been threaded. The hole is covered by a permanent metal source tag.

II. RADIOACTIVE CONTENTS

Radioactive Material, Special form, NOS, UN2974

III. For shipping radioactive materials.

IV. TEST PROCEDURES

4.1. Water Spray Test: simulated exposure to rainfall approximately 2 inches per hour for 2 hours.

4.1.1. Visual Inspection: showed no damage.

4.2. Free Drop Test: measuring from the bottom of the container to the target (flat unyielding surface). The height of not less than 5.5'.

4.2.1. Visual Inspection: showed no apparent damage.

4.3. Corner Drop Test: a free drop onto each quarter of each rim from a height of 1'.

4.3.1. Visual Inspection: showed no apparent damage.

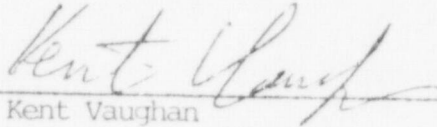
4.4. Compression Test: the test lasted 24 hours and consisted of a compressive load equivalent to 225 lbs/ft^2 multiplied by the vertically projected areas of the package. The load was applied to two opposite sides of the package one of which the package normally stands.

4.4.1. Visual Inspection: showed no apparent damage.

4.5. Penetration Test: a bar weighing 15 lbs., 1.25" in diameter with a hemispherical end was dropped onto the center of the weakest part of the package from a distance of 3.3'.

4.5.1. Visual Inspection: showed no apparent damage.

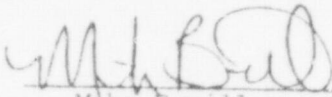
WITNESSED:



Kent Vaughan
Radiography Supervisor

6-27-85

Dated

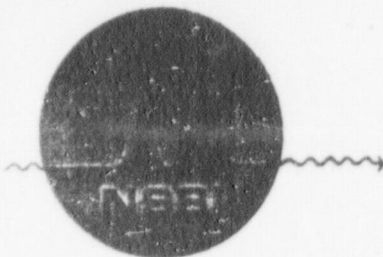


Mike Bevill
Sales Representative

6-27-85

Dated

12. SURFACE 150 INDEX 8 LABEL III



NUCLEAR SOURCES & SERVICES, INC.

P. O. BOX 34042

HOUSTON, TEXAS 77034

AREA CODE 713/641-0391

CERTIFICATION OF TEST RESULTS FOR GAMMATRON INC. DOT 7A CONTAINER

MODEL 85455-B (Dresser)

- 1). Common Name of Container
Neutron source shipping container.
- 2). Authorized Use
Multiple trip, reusable container.
- 3). Authorized Contents
Type "A" quantities of special form radioactive materials.
- 4). Dimensions
Total length 21", height 19", 18½" diameter.
- 5). Description of Container
Cylindrical shaped, 1/8" thick carbon steel shell, coned at ends to 8" diameter filled with polypropylene beads and water extended polymer (WEP) shielding, stainless steel inner cavity.
- 6). Specifications and Restrictions
 - a. Marking must be in compliance with CFR 49 173.24(c)(1).
 - b. A seal must be provided as required in CFR 49 173.412 (b).
 - c. Contamination external radiation levels and labeling must be in compliance with CFR 49 173.443, 173.441, 173.444.

7. Test Results

Environmental Conditions

<u>Test</u>	<u>Results</u>	<u>Discussion</u>
a. Heat +130°F	Pass	Temperature resistance within normal operating range for materials of construction.
b. Cold -40°F	Pass	Temperature resistance within normal operating range for materials of construction.
c. Vibration	Pass	Containers have withstood years of transport with no occurrence of significant damage due to normal vibration.
d. Water Spray	Pass	Containers have withstood years of transport with no apparent weakening of integrity. CFR 49 173.465(b), CFR 49 173.461(a)(4).
e. Free Drop (4 ft.)	Pass	Container passed 4 feet drop requirement with no significant damage. CFR 49 173.465 (c)
f. Penetration	Pass	Container passed penetration test with no loss of integrity. CFR 49 173.465 (e)
g. Compression	Pass	Container passed the compression test requirement by supporting 1200 lbs. for 24 hours with no significant damage CFR 49 173.465 (d)

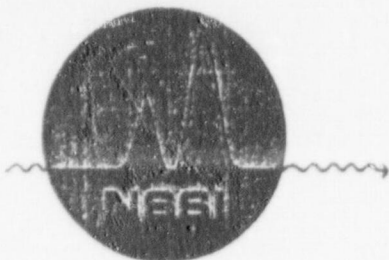
Test conditions and data are available for review. For additional information contact:

Robert D. Gallagher
Nuclear Sources & Services, Inc.
P.O. Box 34042
Houston, Texas 77034

This is to certify that Nuclear Sources & Services, Inc., has completed the test as described above on a container provided by Nuclear Sources & Services, Inc.

Robert D. Gallagher
Robert D. Gallagher, President
Nuclear Sources & Services, Inc.

Date January 1976



NUCLEAR SOURCES & SERVICES, INC.

P. O. BOX 34042

HOUSTON, TEXAS 77034

AREA CODE 713/641-0351

CERTIFICATION OF TEST RESULTS
FOR GAMMATRON INC.
DOT 7A CONTAINER

MODEL 100-084

- 1). Common Name of Container
Neutron source shipping shield.
- 2). Authorized Use
Multiple trip, reusable container.
- 3). Authorized Contents
Type "A" quantities of special form radioactive materials.
- 4). Dimensions
14½" diameter, 16" length, height 16½"
- 5). Description of Container
Cylindrical shaped, 1/8" thick carbon steel shell, coned at ends to 5" diameter, filled with polypropylene beads, and water extended polymer (WEP) for shielding.
- 6). Specifications and Restrictions
 - a. Marking must be in compliance with CFR 49 173.24(c)(i).
 - b. A seal must be provided as required in CFR 49 173.412 (b).
 - c. Contamination external radiation levels and labeling must be in compliance with CFR 49 173.443, 173.441, 173.444.

* See Model D-5477-L for photo type documentation of required tests.

7. Test Results

Environmental Conditions

<u>Test</u>	<u>Results</u>	<u>Discussion</u>
a. Heat +130°F	Pass	Temperature resistance within normal operating range for materials of construction.
b. Cold -40°F	Pass	Temperature resistance within normal operating range for materials of construction.
c. Vibration	Pass	Containers have withstood years of transport with no occurrence of significant damage due to normal vibration.
d. Water Spray	Pass	Containers have withstood years of transport with no apparent weakening of integrity. CFR 49 173.465(b), CFR 49 173.461(a)(4).
e. Free Drop (4 ft.)	Pass	Container passed 4 feet drop requirement with no significant damage. CFR 49 173.465 (c)
f. Penetration	Pass	Container passed penetration test with no loss of integrity. CFR 49 173.465 (e)
g. Compression	Pass	Container passed the compression test requirement by supporting 1000 lbs. for 24 hours with no significant damage CFR 49 173.465 (d)

Test conditions and data are available for review. For additional information contact:

Robert D. Gallagher
Nuclear Sources & Services, Inc.
P.O. Box 34042
Houston, Texas 77034

This is to certify that the DOT 7 A container described above has been tested and meets the requirements for 7A packaging.

Robert D. Gallagher
Robert D. Gallagher, President
Nuclear Sources & Services, Inc.

Date: 8-25-75

OTHER CONFIGURATION:

D-5477-L (Dresser) - Fabricated the same as 100-084. Customer orders by drawing number.

TRANSPORTATION CARRIER CERTIFICATE,
SOURCE - 2 Ci. CESIUM

WE HAVE TWO (2) 2 Ci CESIUM SOURCES DESIGNATED D-20
D-21

GNI INCORPORATED

Model GC-2

Shipping Container

GC-2 CYLINDER CONTAINER

I. DESCRIPTION:

GC-2 is a cylinder container made of hot rolled mild steel, 8" in diameter and 9 3/4" in length. The bottom is welded 11 gauge HRMS with molten lead fill. The handle is 2" high and 4" wide and is made of .375 O.D. bar stock. A top locking device consists of a flat bar .250" thick, 1" wide, with .625" holes for locking the "T" bar, 10" in length.

II. LABELING:

D.O.T. 7A Radioactive materials, special form, NOS, UN2974, proper T.I. sticker, serial number tag.

III. USES:

For shipping radioactive material special form.

IV. TEST PROCEDURES:

4.1. Water Spray Test: simulated exposure to rainfall of approximately 2" per hour for 2 hours.

4.1.1. Visual Inspection: showed no damage.

4.2. Free Drop Test: measuring from the bottom of the container to the target (flat unyielding surface). The height of not less than 5.5'.

4.2.1. Visual Inspection: showed no apparent damage.

4.3. Corner Drop Test: a free drop onto each quarter of each rim from a height of 1'.

4.3.1. Visual Inspection: showed no apparent damage.

4.4. Compression Test: the test lasted 24 hours and consisted of a compressive load equivalent to 225 lbs/ft² multiplied by the vertically projected areas of the package. The load was applied to two opposite sides of the package, on one of which the package normally stands.

4.4.1. Visual Inspection: showed no apparent damage.

4.5. Penetration Test: a bar weighing 15 lbs., 1.25" in diameter with a hemispherical end was dropped onto the center of the weakest part of the package from a distance of 3.3'.

4.5.1. Visual Inspection: showed no apparent damage.

GC-2 CYLINDER CONTAINER
CERTIFICATION TESTS

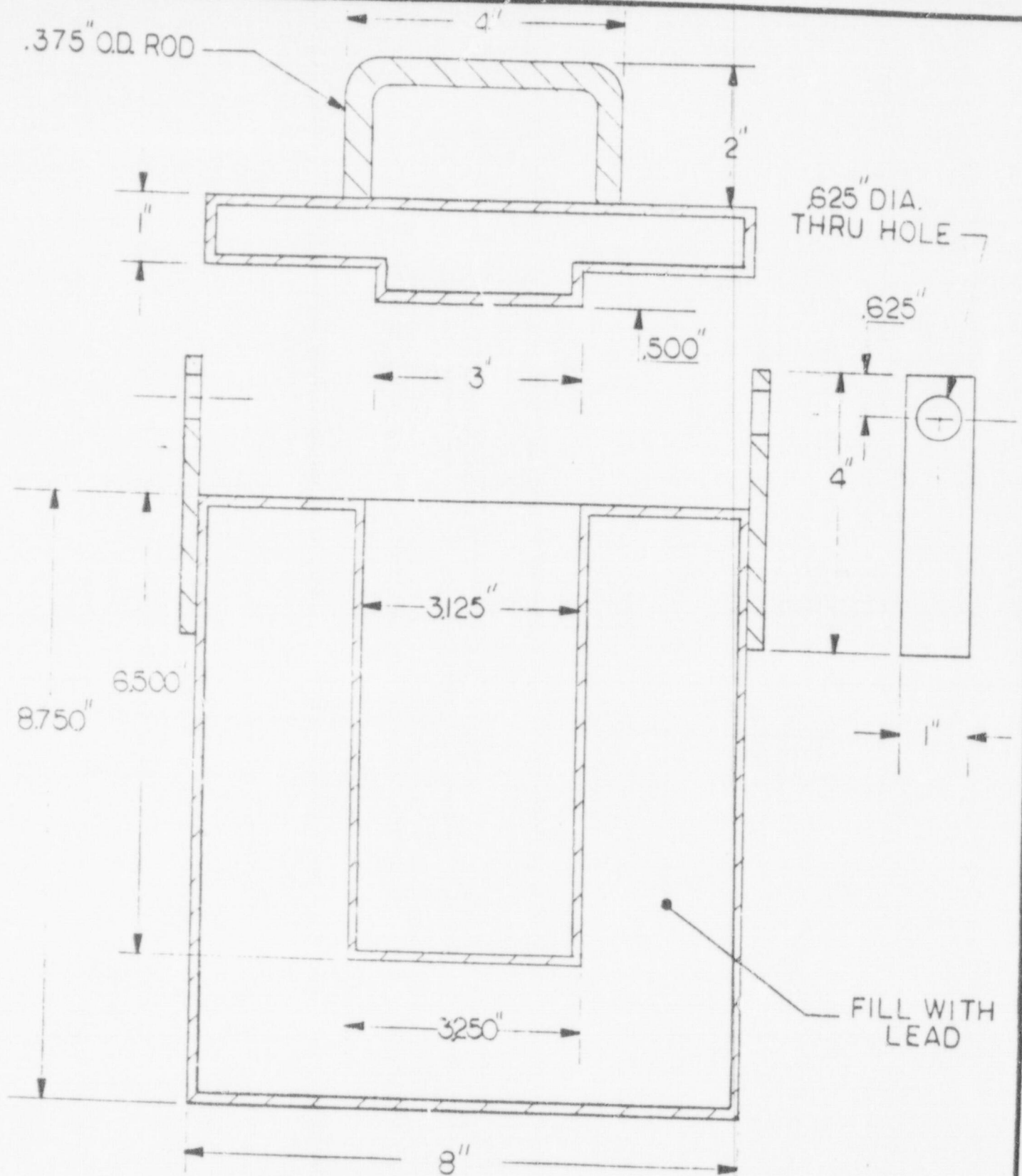
WITNESSED:

Kent Vaughn
Kent Vaughn
Radiography Supervisor

5-12-83
Dated

Mike Beville
Mike Beville
Sales Representative

5-11-83
Dated



REVISIONS			GULF NUCLEAR, INC.		
NO.	DATE	BY			
1			G.N.I. SHIELD GC-2		
2					
3			DRAWN BY	MPA	SCALE 1/2
4			CHK'D	DATE	2-16-82
5			TRACED	APP'D	DRAWING NO.
					1000-32-02

GNI INCORPORATED

201 MEDICAL CENTER BLVD. P.O. BOX 97638
WEBSTER, TEXAS 77598



Mr. E. S. Hill
Box 1198
Dumas, TX 74030

Robert M. Hill



Wireline Products Division

7450 Winscott Road • Fort Worth, Texas 76126 • Telephone (817) 249-1391 • Telex 293224

RADIOACTIVE MATERIAL TRANSFER

TRANSFERRED TO A. B. Still Well Service, Inc.

ADDRESS P. O. Box 102, Drumright, Oklahoma 74030

MATERIAL AmBe QUANTITY 5 Ci

SERIAL NUMBER T-950

LICENSE NUMBER 35-19935-01 EXPIRATION DATE April 30, 1987

MODEL NO. AUTHORIZED AN-HP MODEL NO. SHIPPED AN-HP

LEAK TEST EXPIRATION DATE December 17, 1983 ENCLOSED ☒ YES ☐ NO

I hereby certify the above information has been completed and the licensee is authorized to receive the above material.

November 10, 1983

Date

Signed *Ronald E. [Signature]*

SHIPPING INSPECTION RECORD

GROUP NUMBER _____ DATE _____

ORDER NUMBER _____ CARRIER _____

RADIATION AT PACKAGE SURFACE _____ TRANSP. INDEX READING _____
(MR/HR At 1 YARD)

Inspected By _____

RECEIPT OF TRANSFERRED MATERIAL

RECEIVED BY _____ DATE _____

TITLE _____

"SERVING THE WIRELINE SERVICE INDUSTRY"

Wireline Products & Systems • Molded Products • Explosives Products



GULF NUCLEAR, INC.

100 NASA ROAD ONE SUITE 411 WEBSTER, TEXAS 77598 (713) 332-3581

CERTIFICATE OF LEAK TEST (LTK-1)

CUSTOMER

SIE/Geosource
Route 5, Box 214
Fort Worth, Texas 76126

This is to certify that the leak test on the indicated source has been counted on the specified date and the results shown accurately represent the level of removable contamination.

SERIAL NO. OF SOURCE T-950
ISOTOPE AmBe QUANTITY 5 Ci.
REMARKS
MANUFACTURER
DATE OF TEST 6/17/83

RESULTS

GROSS COUNTS 40.
BACKGROUND COUNTS 40.
EFFICIENCY 26.4% DPM 0.

REMOVABLE CONTAMINATION Less than 1×10^{-4} Microcuries.

(NOTE: Removable contamination equal to or greater than $5.0E-3$ microcuries (11,000 dpm) constitutes a leaking source.)

COUNTED BY CG
DATE 7/15/83

APPROVED BY *Frank Mallet Jr.*
TITLE Radiation Protection Officer



Wireline Products

7450 Winscott Rd.
Fort Worth, Texas 76126

817 249-1391

Texas Wats 800 772-2305
U.S. Wats 800 433-2196
Telex 293224

CERTIFICATE

DOT TYPE "A" PACKAGE DESIGN

CONTAINER: SIE, AmBe Source Shield

Part No. 769196-000

DESCRIPTION: Steel Sphere

Diameter 14"

Height 17"

Weight 130#

Outer body and inner liner made of steel.

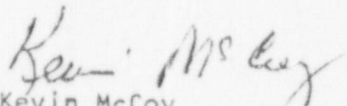
Cavity filled with Ashland Chemical Company, Aporol
WEP 661-P extended with 50% water.

USE: AmBe "Special Form" Radioactive Material Shipping and
Storage Shield. Maximum activity 5 Curies.

REQUIREMENT: Container must be labeled and marked in accordance
with Department of Transportation and Nuclear Regulatory
Agencies having regulatory authority.

This is to certify that the above container design has been evaluated
and tested in accordance with the requirements set forth in CFR 49,
Parts 173.411 and 173.412 and meets the Department of Transportation
requirements for Type A containers.

Date: March 1, 1985


Kevin McCoy
Radiation Safety Officer