

PHONE 234-2433

BOX 535 6 MAY 1986

CASPER, WYOMING 82602

D. BLAIR SPITZBERG
HEALTH PHYSICIST
U.S. NUCLEAR REGULATORY COMMISSION-REGION IV
811 RYAN PLAZA DR.; SUITE 1000
ARLINGTON, TX 76011

RE: PETRO-LOG, INC. INSPECTION DURING APRIL 1986

DEAR MR. SPITZBERG:

ATTACHED IS A COPY OF SOURCE CERTIFICATION CERTIFICATE ON AM-241/BE SERIAL NO. 684 MODEL MRC.

ALSO ATTACHED IS AMERSHAM CORPORATION CERTIFICATE OF APPROVAL ON 7A CONTAINER TEST.

I BELIEVE THESE ARE THE LAST TWO CERTIFICATES NEEDED FOR COMPLIANCE WITH N.R.C. REGULATIONS.

WOULD YOU PLEASE ADVISE IF ADDITIONAL INFORMATION IS NEEDED.

SINCERELY

T.W. MORTON VICE-PRESIDENT

AMERSHAM CORPORATION 2636 S. Clearbrook Dr. Arlington Heights, IL 60005 \$12/593-6300 or 800/323-6695

In Canada 505 Iroquois Shore Rd. Oakville, ONT LOH 2R3 416/842-2720 or 800/268-5081

Certificate of approval for the transport of radioactive materials

This package complies with the Regulations for the Safe Transport of Radioactive Materials, safety Series No. 6 (IAEA Vienna 1973) and with the regulations outlined in 49 CFR part 173.

Design no. ACA-13

Package no. 3227B

Identification		Design no.	Drawing no.	Description
	Assembly	3227B		Outer Shell - Stainless Steel
	Outer packaging			
	Intermediate packaging			WEP encasing a stainless steel sleeve
	Inner packaging	1		IAEA special form stainless steel capsule

Description

Colloquial name OWL Keg

Construction WEP filled Stainless Steel Drum

Overall dimensions 1.41 ft dia. x 1.71 ft high | Cavity size 6.85 in. long x 3 in.

Shield material and thickness WEP 6.6 in.

dia.

Weight 165 1bs.

Conditions of approval

Type of approval US DOT 7A Type A

Permitted contents 241Americium/Beryllium total contents 19.99 Ci

Maintenance

Outside of package to be marked "USA DOT 7A Type A" and Other requirements "Radioactive Material".

A, proved

Redistion Safety Officer

mersham



GULF NUCLEAR, INC.
202 MEDIÇAL CENTER BLVD. WEBSTER, TEXAS 77598 (713) 332-3581

SOURCE CERTIFICATION CERTIFICATE

CUSTOMER _	Petro-Log, Inc.	ISOTOPE	Am-241/Be
	Box 887	SERIAL NUMBER_	684
****	Evanston, Wy.82930	ACTIVITY	3 Ci.
		MODEL	MRC
		ANSI CLASSIFICAT	ION77C56522
1			
Department of			
This is to cert	ify that this source meets the diation Part 36.108.	e requirements of the Te	exas Regulations for the
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GULF NUCLEAR, INC.

GNG-5 CYLINDER CONTAINER

I. DESCRIPTION

GNG-5 cylinder container 14" 0. x 14" long, 11 gage hot rolled mild steel. The front and back are 14" 0.D., 11 gage HRMS welded on. The inner chamber is 3-1/2 0.D. x 9" long, 11 gage cylinder. The handle is 4-1/2" long and 1" 0.D. tube 5" of 1" x 4" flat bar. The container also has a 5" x 4" x 1/4" plate. The container contains 50 lbs. Boric acid powder mixed with 3 gallons polyester resin and 1 oz. hardner. The insert is 3.0" I.D. x 11.25" long which bolts on the outside fron and goes into the container.

II. LABELING

D.O.T. 7A radioactive material; proper T.I. sticker, serial number tag.

III. USES

To ship radioactive material special form.

IV. TEST PROCEDURES

- 4.1. Water Spray Test: simulated exposure to rainfall of 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.
- Compression Test: The test lasted for 24 hours and consisted of a compressive load equivalent to 225 lbs/ft. 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.
- 4.3.1. Visual Inspection: showed no apparent damage.
- 4.4. 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'.
- 4.4.1. Visual Inspection: showed no apparent damage.

WITNESSED:

Kent Vaughn Radiography Supervisor

Sales Representative

5-11-83 Dated