



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P. Commissioner

1100 West 49th Street Austin, Texas 78756 (512) 458-7111 Robert A. MacLean, M.D. Deputy Commissioner Professional Services

Hermas L. Miller Deputy Commissioner Management and Administration

March 30, 1983

Robert J. Doda State Agreements Program, Region IV U. S. Nuclear Regulatory Commission 611 Ryan Plaza Drive, Suite 1000 Arlington, Texas 76012

Dear Bob:

Enclosed you should find a copy of Russ Meyer's investigation at Gulf Nuclear concerning the New York shipping incident. If you have any questions, please call.

Sincerely,

John R. Haygood, Administrator Radioactive Materials Branch Compliance and Inspection Bureau of Radiation Control (512) 835-7000

Enclosure

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INTER-OFFICE

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THRU:	Richard A.	Patliff, 1	Ρ.	E.	,	Director
						Inspection

FROM

Charles R. Meyer

Files

SUBJECT

Complaint from N.R.C. - Gulf Nuclear - License #11-2995.

On March 7, 1983, Nolan Perry and I met with Mr. C. P. Hopcraft to inquire about a complaint filed with the Agency thru the NRC. The complaint stated that Gulf Nuclear had shipped a 200 Ci Ir-192 radiography source which had exceeded the levels of radiation that the D.O.T. allows for transport of radioactive materials. Mr. Hopcraft verified that Gulf Nuclear had received the empty source changer and verified the shielding problem and returned the source changer to the manufacturer for repair. Mr. Hopcraft stated that, since that incident, Gulf Nuclear has instituted a program to verify that each depleated uranium casting did provide adequate shielding by placing a source (strength unspecified) in each camera, prior to pouring in their epoxy filler. He stated that those castings, which failed would be returned to the manufacturer for repair.

TO

I then asked how the repair would be accomplished. He stated the manufacturer would drill or cut out the area where shielding was inadequate and then epoxy a "plug" of solid depleted uranium in its place, presumably in a fashion that does not result in a further loss of shielding. (see attachment).

Violations:

TRCR Section 21.401(d)

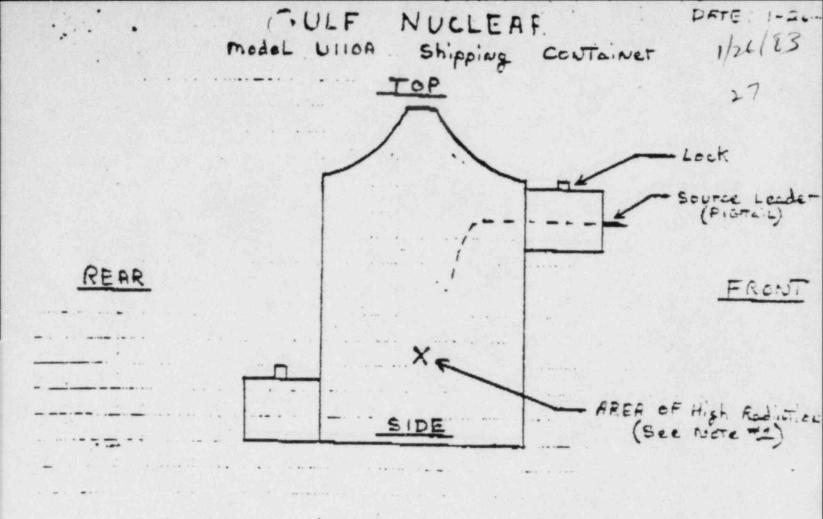
Records of surveys required to establish compliance with this section did not uniquely identify the survey instrument used.

TRCR Section 41.100

Radiation levels at the surface of and at three feet from the surface of the container used to ship sealed source Serial No. 6864 (200 Ci of Ir-192) were found to be in excess of those allowed by 49CFR 173.393(i).

SIGNED Charles R. Meyer March 24, 1983

FORM NO. AG-2-A



NOTE 1: AREA OF HOT Spot is approx. 12" in diember on surface OF shipping container. Beam spread equaled about 3" at a distance OF 3" From the Container.

Touce	From Overpack	Shipping Couten (Removed overper		
	HOT Spot (max)	. other areas (max)	HOT E POT (MON)	
5.0cT	Greater Thew 1 R 950 mR 100 mR	15 mR 2 mR 1 mR	Greater Than 1 R Greater Than 1 R 150 MR	160 m 20 m 8 m R

Surveys Taken By : AF rich

Via succepius 1. 53

Radiation Survey Log Sheet PROUTINE	Sulvey No.
IXI SPECIAL	N 74099
LOCATION RX BLOG EL ZEI N. HALL	0
Source Storage Area	Delt 127 83
20-2A BO-4	-5 Time 1300 - 1700
INSTERMENTS USED # # 25412 \$ 1097 # 159	40
SHEARS USED Paper Towel Atomic Wipe	Air Sample Log Steel No.
DESCRIPTION OF SURVEY RADIATION AND CONTRAIN	ATTION SURVEY OF 2001
Source for Source LARK TEST AND	Dose Bord of Re
WITH Source INSIDE Pig	
SURVEY CONDITIONS, RESULTS, AND REMARKS	
7	
forus:	
Source LOAK TEST: 2 5 ms ARS T	AKON
* 1 * 2	
ALPNA - 1 CPM _ 1 CPM	
BerA - 85.6 cpm 97 cpm	
COR - BS. COM Trepine	
= uci = [4.5 x 10 No /am) (NO	er gan)7
CFF	
# LICI B- Y SMACRACE = 2.78 X	10 peil 2 0.001 nci
# He ox Smearage = 7.79 K	10-7 vai 2 0.001 vai

UNDATED

GULF NUCLEAR, INC.

202 MEDICAL CENTER BLVD. WEBSTER, TEXAS 77598 (713) 332-3581

PACKING SLIP

2 9

5T. NO. 142800

ORDER # 6256

H39822

BILL TO:

1

NUCLEAR ENERGY SERVICES, INC SHELTER ROCK ROAD DANBURY, CT 06810 SHIP TO:

N.E.S. C/O-NIAGARA MOHAWK POWER CORP. 9 MILE POINT UNIT 1, LAKE FOAD SCRIBA, NY 13093 ATIN: R. ZIEBER

SHIPPED VIA TERMS TORDER DATE TAKEN BY CUSTOMER P.O. TO DATE SHIPPEDERAL NET 30 DAYS 1/24/83 FAGE N31543

SPECIAL INSTRUCTIONS:

PAGE

OTY OTY
ORDERED SHIPPED DESCRIPTION BACK ORD. DISC EXTENDED AMOUNT

1 RG-13 200 CI IRIDIUM-192 SOURCE S/N-6864

0

1 Drum

SUB TOTAL

FRT. IN FRT. OUT

FREIGHT TOTAL

****** RADIATION INSPECTION RECORD *******

REDIGION ONE YALL FROM PACKAGE 700 MR



GULF NUCLEAR, INC.

202 MEDICAL CENTER BLVD. WEBSTER, TEXAS 77598 (713) 332-3581

February 24, 1983

Mr. Lewis Calvisino
State of New York
Department of Labor
Division of Safety and Health
Radiological Health Unit
Two World Trade Center
New York, New York 10047

Dear Mr. Calvisino:

Please accept this letter as a follow-up for the evaluating of a source changer that had a hot spot at the Nine Mile Point Unit #1 Nuclear Generating Station in Oswego, New York on January 26, 1983.

This changer, Model U-110A S/N-13 was received here on February 22, and the following test was performed:

(1) A 100 Curie Ir-192 source was placed in the locked position.

(2) Using a Victoreen 592B survey meter readings were taken around the changer.

(3) Approximately 2 inches from the bottom in the middle of the changer on one side a high radiation area was detected.

Since a major overhaul is needed to correct this deficiency, the changer, S/N-13, has been removed from our shipping inventory and returned to manufacturing.

I hope this information is beneficial to you and that something of this nature does not occur due to Gulf Nuclear, Inc. If I can be of further assistance to you, please let me know.

C.P. Hopcraft,

cc: Otis Gamble
Dr. Roy Parker
Edward Leach
Ms. Myu Cambell

3/29/83

March 30, 1983

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-IV-83-10B

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by NRC staff on this date.

Licensee Emergency Classification: FACILITY: Gulf Nuclear, Inc. Notification of Unusual Event Webster, Texas Alert (Texas Agreement Site Area Emergency State Licensee) General Emergency X Not Applicable

SUBJECT: EXPOSURE TO AMERICIUM-241

This is to provide an update on the americium-241 exposure incident involving Gulf Nuclear, inc., a Texas licensee.

On March 25, 1983, the licensee filed a lawsuit against the Texas Health Department (and Department officials) for improperly suspending Gulf Nuclear's radioactive materials license on March 21, 1983. (Under Texas law, a license may not be suspended until after a hearing is held.) The State corrected this technicality on March 28, 1983, by issuing an emergency order to cease radioactive material handling operations at the Webster facility.

Also, on March 28, 1983, the Texas Attorney General filed a lawsuit asking for fines of \$25,000 for each violation and for each day of violation. Violations cited in the suit included: (1) shipments of radioactive materials on commercial passenger flights to Mexico during 1980 and 1981, (2) cesium-137 soil contamination within the Webster facility, and (3) possession of radioactive material in excess of that allowed in the license. The Attorney General has "closed" the licensee's files at the Bureau of Radiation Control while any litigation is pending.

There continues to be strong media interest concerning this matter.

3/4/83

3/10/83 3/ /83

CONTACT: R. J. Doda, RIV 728-8139

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3/30/83