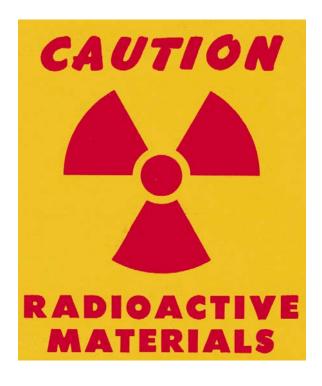
"Caution - Radioactive Materials" Signs







Revised: February 19, 2008

"Intentionally Blank"

"Radioactive Yellow II" Label

Revised: February 19, 2008

Effective: June 1, 2000



Note:

This label is for a Troxler Model 3440 Series gauge; the activities and Transport Index will differ for other gauge models

Revised: February 19, 2008

Effective: June 1, 2000

USA DOT 7A TYPE A RADIOACTIVE MATERIAL TYPE A PACKAGE SPECIAL FORM, NON FISSILE OR FISSILE EXCEPTED, UN 3332 RQ

Gauge Transport/Storage Container ID Labels

(Troxler ID Label)

USA DOT 7A TYPE A
RADIOACTIVE MATERIAL
TYPE A PACKAGE, SPECIAL FORM
7, UN3332, RQ

(ADS ID Label)

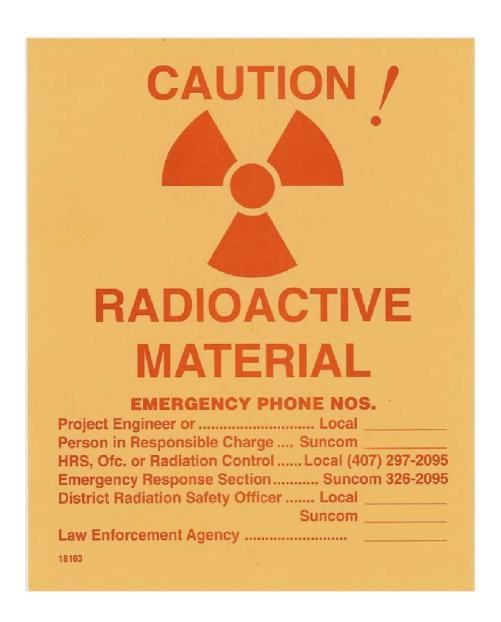
Gauge Warning/ID Label

Revised: February 19, 2008



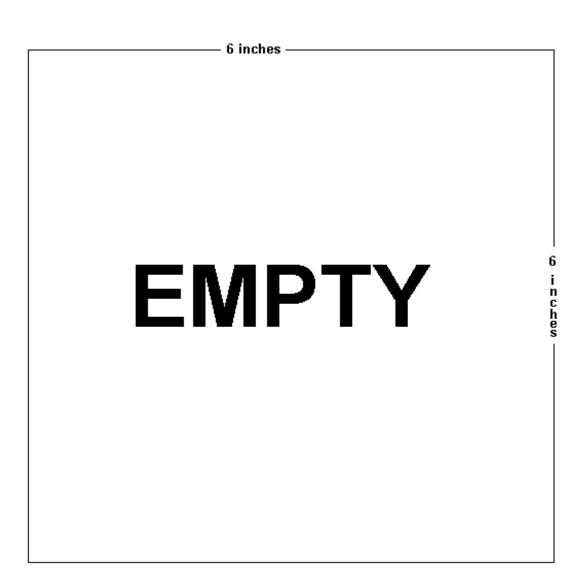
Emergency Phone Numbers Dashboard Label

Revised: February 19, 2008



"Empty" Label

Revised: February 19, 2008



"Intentionally Blank"

DOH Notice To Employees



FLORIDA DEPARTMENT OF HEALTH



Revised: February 19, 2008

Effective: June 1, 2000

NOTICE TO EMPLOYEES

STANDARDS FOR PROTECTION AGAINST RADIATION; NOTICES, INSTRUCTIONS AND REPORTS TO WORKERS; INSPECTIONS

POSTING REQUIREMENT

THIS NOTICE MUST BE POSTED IN PLACES THAT PERMIT EMPLOYEES IN A RESTRICTED AREA TO SEE A COPY ON THE WAY TO OR FROM THEIR PLACE OF EMPLOYMENT.

The Department of Health has established standards for protection against radiation hazards in Chapter 64E-5, Florida Administrative Code.

YOUR EMPLOYER IS REQUIRED TO:

- Post or provide you a copy of the Department of Health rules and operating procedures that apply to your work and explain them to you.
- Apply the rules to work involving radiation sources.
- Post or provide you any Notice of Violation involving radiological working conditions, proposed civil penalties, and orders.

YOU ARE REQUIRED TO:

- Become familiar with the rules and the operating procedures that apply to your work.
- Observe the requirements to protect yourself and your co-workers.

WHAT IS IN THESE RULES:

- Limits on exposure to radiation and radioactive material in restricted and unrestricted areas
- · Actions to take after accidental exposure
- · Personnel monitoring, surveys, and equipment
- · Caution signs, labels, and safety interlocks
- · Exposure records and reports
- Options for workers about Department of Health inspections
- · Related matters

REPORTS ON RADIATION EXPOSURE

Your employer must give you a written report if you receive an exposure above the limits in the rules or in the license. The maximum limits for exposure to employees are in Part III of the rules. However, your employer should keep your radiation exposure as low as reasonably achievable.

If you work where personnel monitoring is required:

- Your employer must give you a written annual report of your radiation exposures.
- Your employer must give you a written report of your radiation exposures when you terminate employment.

INSPECTIONS

Representatives of the Department of Health inspect all licensed and registered activities. Any worker or worker representative who believes that there is a violation of Chapter 404, Florida Statutes; Chapter 64E-5, Florida Administrative Code; or the terms of the employer's license or registration can request an inspection by contacting the Bureau of Radiation Control, Bin C21, 4052 Bald Cypress Way, Tallahassee, FL 32399-1741 (850) 245-4266. The request must state specific reasons for the inspection. During inspections, Department of Health inspectors can confer privately with workers and any worker can bring to the attention of the inspectors any past or present condition that they believe contributed to or caused any violation.

Copies of Chapter 64E-5, F.A.C., the license or registration, operating procedures, any notice of violation about working conditions, penalty orders issued, and responses can be examined at:

Emergency Notification Poster

In the Event of an Accident, Damage, Loss, or Theft

IMMEDIATELY NOTIFY:

of a Density Gauge

Dist. Radiation Safety Officer:

Office:

Cell:

Asst. Dist. Rad. Safety Officer:

Office: Cell:

State Radiation Safety Officer: Ben Watson

Office: (352) 955-2935 Cell: (352) 318-0539

Revised: February 19, 2008

Effective: June 1, 2000

Radiation Safety Consultant: Walt Cofer

Office: (850) 668-8559 Cell: (850) 519-5351

FOR STATE RADIATION EMERGENCY NOTIFICATION OR ASSISTANCE, CALL: (407) 297-2095

(Monitored 24/7)

If damage to a gauge is suspected:

- Clear the area; establish a 10-15 ft. barricade around the gauge; restrict access to authorized personnel only
- Except for those requiring medical attention, do not allow personnel (or vehicles) to leave the area until cleared by the FDOH Bureau of Radiation Control

Leak Test Kit

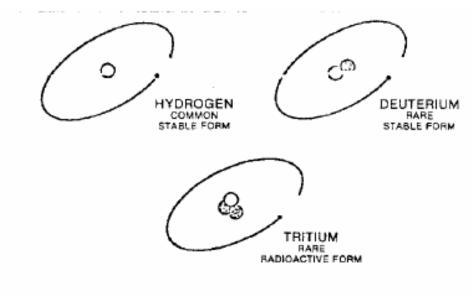
Revision: November 3, 2006 Effective: June 1, 2000



Appendix A-11

Symbol Meanings

Revised: February 19, 2008 Effective: June 1, 2000

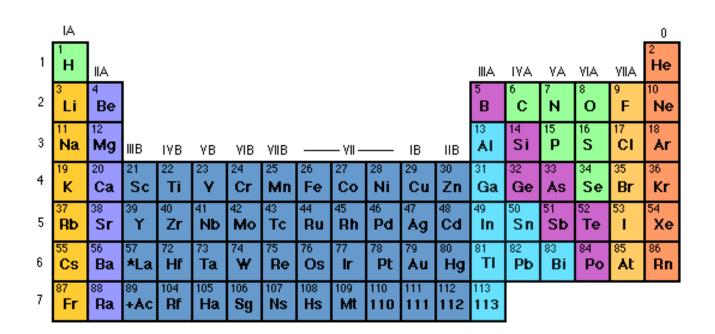


- Isotopes of the element hydrogen.

SUBSTANCE SYMBOL	PROTONS (Z)	ATOMIC MASS NUMBER (A)	NEUTRONS (A-Z)	ELECTRONS (Z)
HYDROGEN 1H1	1	1	0	1
DEUTERIUM 1H2 OR 1D2	1	2	1	1
TRITIUM 1H ³ OR 1T ³	1	3	2	1
OXYGEN 80 ¹⁶	8	16	8	8
URANIUM 92 ^{U238}	92	238	146	92

Symbol meanings.

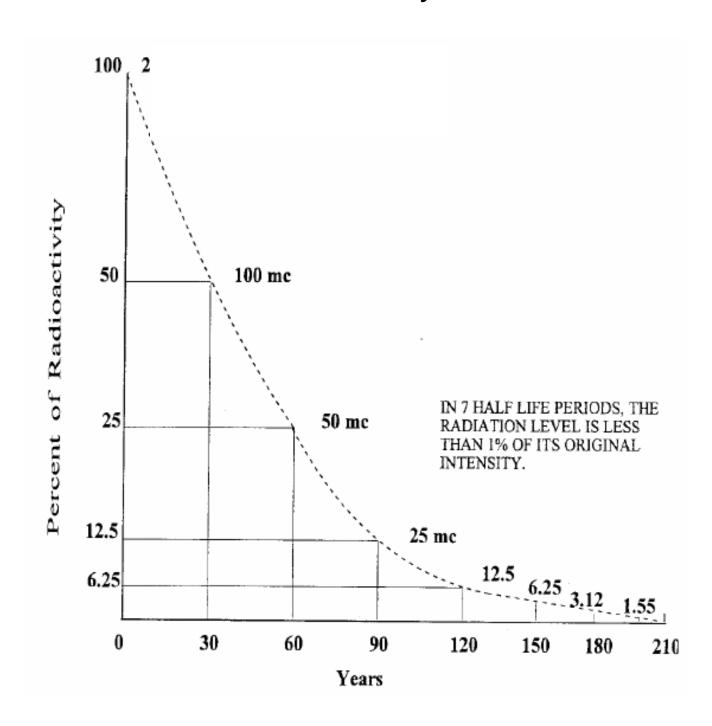
Periodic Table of the Elements



*Lanthanide	_	59	60		62	63	64		66	67	68	69	70	71
Series	Се	Pr	Nd	Pm	Sm	Eu	Gd	Τb	Dy	Но	Er	Tm	Υb	Lu
+ Actinide 9 Series	90 Th	91 Pa	92 11	93 N D	94 D 11	95 Am	96 Cm	97 Rk	98 Cf	99 Es	100 Fm	101 M d	102 No	103 1 r

Cesium-137 Decay Chart

Revised: February 19, 2008



Gauge Certificate

TROULER ELECTRONIC LABORATORIES, INC. GRUGE CESTIFICATE DRIGINAL.

TROXLER GAUGE MODEL: 3448 GAUGE SERIAL NUMBER: 38617

THRMSFERRED DW: 24 SEPT 1999 SOLES ORDER NUMBER: 9112712

★無管知事者:

3000 1 3492998 LICENSE: 189-1

32-182-1 : FLORIDA DOT

. STATE MATERIALS OFFICE 総物体 N.E. WALDD RD. GRINESVILLE, FL 38504

TROXLER ELECT, LABORATORIES, INC.

P 0 B0X 18637

OF RUPLE

RESERROH TRIANGLE PARK, NO 27709

SEALED BOURCE

22 SEPT1999

SEALED BOURCE RADIDACTIVE HATERIAL C9-137 BM-241 (BE)

759- 5157 SCHROE SERIAL NUMBER .30 GBG(8.000 mCi) ACTIVITY DATE OF MERSUMENENT DATE OF MERSUMEMENT TROSLER DRAWING NUMBER SPECIAL FORM CERTIFICATE 43 YAY 1999 1002112 GB13531665 U\$9994

1,48 BBQ(48,088 aCi) 07 SEPT1998 100451 **朝野/7/第-65**

47-27721

Revised: February 19, 2008

Effective: June 1, 2000

ANSI SPECIFICATION SHEEDITE OF LEW TESTERS D885544 SE CEPTIONS

RETRIN THIS DOCUMENT AS A RECORD OF GRUGE RECEIPT. THIS IMPORMATION IS PROVIDED TO ADDIST IN COMPLIANCE WITH REPLICABLE ALLES AND REBULATIONS.

SPECIAL FORM CERTIFICATE - THES GRUGE CONTRINS RADIOACTIVE NATURAL IN THE FORM OF SEALED SOURCES THAT HAVE BEEN CERTIFIED AS MEETING US DOT AND IREA "SPECIAL FORM" CRITERIA, YOU AME REQUIRED TO HAVE A DOPY OF THE SPECIAL FORM CERTIFICATE LISTED ABOVE FOR EACH SOURCE TO TRANSPORT OR SHIP THIS GROSE. PLEASE NOTE THAT EACH CERTIFICATE HAS AN EXPIRATION DATE. YOU MAY CONTACT TROXLER ELECTRONIC LABORATORIES . INC. TO DETAIN A CLIMMENT CENTIFICATE LIPON MERPIRATION.

LEAK TEST - THES GAUGE WAS LEAK TESTED ON THE SHEW ABOVE AND THE REMOVABLE ACTIVITY WAS FOUND TO BE LEGG THEM & MES MICROCURIES. YOU are REQUIRED TO PERFORM LERK TESTS OF PERIODIC INTERVALS AS SPECIFIED BY APPLICABLE REGULATORY REGULARMENTS.

TYPE A PACKAGE TESTING - THE SHIPPING CASE MEETS US DOT 7A TYPE A PACKAGE CRITERIA, YOU RAE REQUIRED TO POSSESS A COPY OF THE US DOT 7A TYPE A PACKAGE TESTING RESULTS IN ORDER TO THENSIPORT OR SMIP THIS GAUSE, A COPY MAY BE OSTAINED FROM TROXLER ELECTRONIC LABORATORIES, INC.

THE PROPER SHIPPING NAME, CLASSIFICATION, AND MARKING FOR THIS GRUGE IS:

RD, RADIOACTIVE NOTERIAL, SPECIAL FORM, N.G.B., 7, UN2974, US DOT TR TYPE A PROVINCE, RADIOACTIVE YELLOW (1, T) = Q.S.

CHERTHERS BY W. Poplar 1 - 08 FOR TROXLER SUSCINOMIC URBORATORIES, INC.

Type A Package Certification

Revised: February 19, 2008 Effective: June 1, 2000

TROCLER ELECTRONIC LANGUATURIES, INC. 9.0. BOX (2007, CHENTALLIS 3015 RESPARCH TREASURE PARK, MORTH CAROLINA 19709, U.S.A. Talephone 919/540-9441, Cabla Trussine, Felex 1844902

THE A PACKACE CERTIFICATION

Impules Electrosic Sabotutestes, Inc. exettine that their socials 1255, 1257, 1351, 1351, 2224, 2074, 2480 Series, 3135, 3226, 3200 Series, 3300 Series, 3400 Series, 3241, 3565 and 4640 contain Type A quantities of special form radiosection materials and are pecked for shipmans to Specification 74 Type A containers.

Unese concainers nest the regularments of Cuico- States Copertness of Transpersection Gra 175,24 and are designed and constructed to meet the standards as specified in CPR 175.403 and 175.465. These containers are marked and isbeled in conformance with CPR 173,444. These regulations as a th agreement sich the Regulations for the Safe Transport of MacLouttive Materials (Sofety Series No. 6) of the Intercentional Abouts Energy Agency is knowled.

A copy of thes descriptication aust requir on file as required by CFR \$73.415(a).

TROXLER CENTERPHIC LARGRAPORIES, Dre.

G.√Neimerik Moven, Jo., Radiation Safety Officer

Declaration of Pregnancy

То:	
Employee Supervisor	
In accordance with section 64E-5.311, Florida Administrative (Code (FAC),
l,	, am declaring that I am pregnant.
I believe that I became pregnant in:	
Month	Year
I understand that the radiation dose to my embryo/fetus durin allowed to exceed 500 millirem (5 mSv) unless that dose has the time of conception and submitting this declaration. I ur dose limit may require a change in job or job responsibilities been instructed to always wear my assigned dosimeter embryo/fetus dose. I will make every effort to maintain the achievable (ALARA), and I am aware that the Florida recommends that an embryo/fetus not receive more than 5 month. I understand that records of fetal dose will be maintain	already been exceeded between derstand that meeting the lower es during my pregnancy. I have at waist level to estimate the fetal dose as low as reasonably Department of Health (DOH) of millirem (0.5 mSv) in any one
I have received instructions on exposure monitoring requirements of the Department's radiation safety program, Department's radioactive materials license, and Chapter 64E-	ation, in accordance with the the terms and conditions of the
I have also received instructions concerning the potential risexposed to radiation, including a copy of Nuclear Regulator 8.13. "Instruction Concerning Prenatal Radiation Exposure" (encouraged to review. I understand that a declaration of prwriting, and must include the estimated date of conception.	ry Commission Regulatory Guide (Rev. 3, 6/99), which I have been
I have been encouraged to request additional information Department Radiation Safety Officer (RSO) and District RS questions I may have regarding declared pregnancies, and from the DOH Bureau of Radiation Control are also available	SO are available to answer any that radiation safety specialists
Signature	
Printed Name	
 Date	

Bill of Lading



FLORIDA DEPARTMENT OF TRANSPORTATION



	Dui es la sure	
	BILL OF LADING	
SHIPPER:	Florida Department of Transportation	SHIPMENT DA
ADDRESS:	State Materials Office	
	Materials Research Park, 5007 NE 39th Ave.	
	Gaines ville, FL 32609-890 1	
PHONE NO.:		
	DESCRIPTION	
Radioad	tive Material, Type A Package, Special Form	
	Hazard Class 7, UN3332, RQ	
	PACKAGE CONTENTS	
Rac	dioactive Material Activity (maximum)	
	Cesium-187 0.88 GB q (9 mCi)	
ΑI	nericium-241:8e 1.48 GBq (44 mCi)	
	LABEL CATEGORY: Radioactive Yellow II	
	TRANSPORT INDEX: 0.6	
	24-HR. EMERGEN CY RESPONSE	
	INFORMATION NUMBER:	
	(407) 297-2095	
	FL Dept. of Health	
	Bureau of Radiation Control	
Troyler 66	odel 8400 Series Portable Moisture/Density Gauge	
1102161 101	- The state of the	
document must n file for 2 years	Gauge Serial No.:	
n file for 2 years elast shipment.	casgo conar non	

EMERGENCY RESPONSE INFORMATION

DESCRIPTION

Radioactive Material, Type A Package, Special Form, Hazard Class 7, UN3332, RQ

POTENTIAL HAZARDS

IMMEDIATE HAZARDS TO HEALTH

- Radioactive material; type and quantity are non-life-endangering amounts and present minimal risk during transportation accidents.
- Undamaged packages are safe; damaged packages or material released from packages present potential
 external radiation hazard from unshielded radioactive material.
- Radioactive materials are in special form (sealed sources); contamination is not expected.
- If special form capsule(s) breached (possible if package damage is severe), potential internal radiation hazard from inhalation, ingestion, or breaks in skin.

FIRE OR EXPLOSION

- No risk of fire or explosion; radioactivity does not change flammability or other properties of the materials.
- Packagings can be consumed without content loss from sealed sources

EMERGENCY ACTION

IMMEDIATE PRECAUTIONS

- Priority response actions may be performed before taking radiation measurements.
- Priorities are life saving, control of fire and hazards, and first aid.
- Isolate hazard area to at least a 15 foot radius and deny entry.
- Notify local authorities and FDOH Bureau of Radiation Control (407/297-2095) of accident conditions
- Detain uninjured persons, isolate equipment with suspected contamination, and delay cleanup until
 instructions received from FDOH Bureau of Radiation Control.

FIRE

- Do not move damaged containers; move undamaged containers out of fire zone.
- Fight fire from maximum distance.
- Small fire: Dry chemical, CO₂, water spray, or standard foam.
- Large fire: Water spray, fog (flooding amounts).

SPILL OR LEAK

- Do not touch damaged containers or exposed contents.
- Damage to outer container may not affect primary inner container.
- Special form capsules are not expected to leak as a result of an accident or fire.
- If source(s) out of package, stay away and await advice from FDOH Bureau of Radiation Control.

FIRST AID

- Use first aid treatment according to the nature of the injury.
- Persons exposed to special form sources are not likely to be contaminated, but if suspected, advise medical personnel that victim(s) may be contaminated with radioactive material.
- If contamination is suspected, remove and isolate potentially contaminated clothing and shoes if not affecting injuries and wrap victim in blanket before transporting.
- Except for the injured, detain persons exposed to radiation until instructed by FDOH Bureau of Radiation Control.

Revised: February 19, 2008

Emergency Procedure Checklist

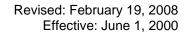
Revised: February 19, 2008 Effective: June 1, 2000

Perform the below steps if a gauge is involved in an incident.

1.	Determine	category	y of	incident
----	-----------	----------	------	----------

:	<u>Stationary</u>	<u>Misadventure</u>	<u>Transported</u>	<u>Fire</u>	Loss/Theft
C	So to Step 2	Go to Step 2	Go to Step 2	Go to Step 3	Go to Step 5
2.	Dose gau	ge appear damage or	is the source expos	ed? Yes	No
	If Yes:	A. Wrap the source in radioactive materi		se woven material to	prevent spread of
		B. Pack the wrapped	source in a sack of d	amp soil	
		C. Go to Step 4			
	If No:	Go to Step 4			
3.	Do not at	tempt to move gauge;	go to Step 5		
4.	Is gauge i	in a safe location?	Yes No		
	If Yes:	Go to Step 5			
	If No:	Move gauge or vehicle locations	e containing gauge to	a safe location; note	old and new
5.		vas being transported contact local law enfo			public is
6.	Record th	ne following information	on:		
	A. Gau	ge Information			
		Gauge Mfr.	Gauge Model	Gauge Serial N	<u>0.</u>
	B. Loca	ation:			

6.	Incident information (contd.)	
	C. Description of incident:	
	D. Vehicle Info.: Tag No.: Vehicle No.:	
7.	Notifications	
	The operator or individual involved in or discovering the incident must improject Engineer/person-in-charge, their Dist. Radiation Safety Officer, As RSO, or DRSO/ADRSO designee.	
	List of Persons Contacted	
Pro	ject Engineer:	#:
Res	sponsible Person-In-Charge:	#:
Dis	t. RSO:	#:
Ass	st. Dist. RSO:	#:
Sta	te RSO:	#:
Oth	ner: (list title)	#:
Oth	ner: (list title)	#:
	The operator, Project Engineer, responsible person-in-charge, Dist must immediately notify the DOH Bureau of Radiation Control (monitored 24/7) and follow the instructions provided by DOH.	
DO	H Representative: Date/Time:	
8.	Description of DOH instructions:	





Florida Department of Transportation



Notification of FDOT Nuclear Gauge Storage Area

Notification			
	uments required notifications and progregency personnel.	vides informati	on on the gauges
Date:	Notification Provided To:		
	Notification Provided By:		
moisture conte Each device of sealed source amounts of rad beryllium source located beneat Cesium-137 so	or gauges are used to test density and nt of soils and construction materials. Contains two low activity radioactive is (metal capsules containing small ioactive material). The Americium-241: e (used for moisture measurements) is the gauge's electronic panel. The ource (for density measurements) is tip of the source rod, which is shielded	Nuclear gauge	Transport/storage case (yellow or orange)
	the gauge when not in use. Dist. Radiation Safety Officer (RSO) Asst. District RSO		
	FDOH Bureau of Radiation Control		