

Rec'd  
EB, 2/14/86

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES  
SAFETY EVALUATION OF SEALED SOURCES

NO: TX333D125S

DATE: February 3 , 1986 PAGE 1 OF 2

DEVICE TYPE: Industrial Radiography Source Changer

MODEL: (b)(2)

MANUFACTURER/DISTRIBUTOR: Gulf Nuclear, Inc.  
202 Medical Center Blvd.  
Webster, Texas 77598

MANUFACTURER/DISTRIBUTOR:

SEALED SOURCE MODEL DESIGNATION: Gulf Nuclear (b)(2)  
(b)(2)

ISOTOPE:  
Iridium-192  
Depleted Uranium

MAXIMUM ACTIVITY:  
(b)(2)  
Shielding, 12 kilograms

LEAK TEST FREQUENCY:

PRINCIPAL USE: Industrial Radiography

CUSTOM SOURCE: \_\_\_\_\_ YES x NO

B/13

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES  
SAFETY EVALUATION OF SEALED SOURCES

NO: TX333D125S

DATE: February 3, 1986 PAGE 2 OF 2

DEVICE TYPE: Industrial Radiography Source Changer

DESCRIPTION:

These source changers are all identical except for the length of the lock box. They all consist of an "S" tube in a 26 pound uranium shield which is held in a heavy aluminum casing. The center of the "S" tube has a stop to prevent sources passing through the device. The exchanger is shipped in a DOT-6C shipping drum labeled with a Radioactive III label. The manufacturer supplies operating instructions for source exchange.

The manufacturer's sources as listed below (and the sources they replace) are authorized to be shipped in the device models as shown.

(b)(2)

(These models with different types of disconnect are also authorized.)

LABELING:

The device is labeled with the conventional symbol, the isotope, activity, date, serial number, and manufacturer's name.

EXTERNAL RADIATION LEVELS:

The highest radiation level on the surface of the device with a (b)(2) source is 140 mr/hr. This reduces to about 6 mr/hour at 12 inches from the surface. Hence, when shipped in the DOT-6C drum, the radiation levels for a 200 curie source are within DOT requirements.

DATE: 1/31/86

REVIEWED BY: Boyd R. Zaniter

DATE: 2/3/86

REVIEWED BY: Joseph G. Klingner

ISSUING AGENCY:

Texas Department of Health