

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO. TX333D115S

DATE: September 12, 1984

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DEVICE TYPE: Panoramic Radiographic Exposure Device

MODEL: (b)(2)

MANUFACTURER/DISTRIBUTOR:

Gulf Nuclear, Inc.
202 Medical Center Blvd.
Webster, Texas 77598

SEALED SOURCE MODEL DESIGNATION:

(b)(2)

ISOTOPE: Iridium-192
Depleted
Uranium

MAXIMUM ACTIVITY:

(b)(2)
Shielding 13.6
kilograms

LEAK TEST FREQUENCY:

PRINCIPAL USE: Industrial Radiography

CUSTOM DEVICE: _____ YES _____ X _____ NO

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DEVICE TYPE: Panoramic Radiographic Exposure Device

DESCRIPTION:

The Model (b)(2) consists of 30 pound depleted uranium shield mounted in epoxy around a zircaloy 1" tube and enclosed in a rectangular aluminum case with overall dimensions of about 6" x 5" x 10". The device is a crank out type of device which drives the source to and from the shielded position. The drive cable connector, exposure tube connector, and the crank assembly are made of stainless steel. The exposure tube is plastic with brass fittings and is 22 feet long. The Model (b)(2) is identical to the (b)(2) except that the (b)(2) is enclosed in a rectangular stainless steel case and is certified as a Type B transport container. The Model (b)(2) uses the manufacturer's Model (b)(2) source and is compatible with either the NEEI RC-6C or NEEI U-110 source changer.

LABELING:

The device bears the manufacturer's name, model, number, serial number, radiation symbol, isotope, number of curies, date, "CAUTION RADIOACTIVE MATERIAL", and specifies the device contains 30 pounds of uranium. Source data is contained on a removable label which is provided with each new source.

EXTERNAL RADIATION LEVELS:

The highest radiation level about the device at a distance of six inches from the surfaces was measured to be 32 millirem per hour for a (b)(2) source.

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE:

The manufacturer provides an instruction manual of operation for the device and states that all repair of the device are to be performed by the manufacturer.

DATE: &Z'kkdL-3/~f~

REVIEWED BY: Charles R. Hunter

DATE: / > \$+7p. /rfw

REVIEWED BY: Joseph G. Klingler

ISSUING AGENCY: Texas Department of Health