

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

NO.: TX333S121U

DATE: January 1976

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SEALED SOURCE TYPE: Well Logging and Industrial Gauging Source

MODEL: (b)(2)

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

MANUFACTURER/DISTRIBUTOR:

ISOTOPE: Various

MAXIMUM ACTIVITY:

LEAK TEST FREQUENCY:

PRINCIPAL USE: Gamma Gauges

CUSTOM SOURCE:  YES  NO

Information in this record was deleted in  
accordance with the Freedom of Information Act.  
Exemptions 2  
FOIA/PA 2010-0120

B/S

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DESCRIPTION:

The radioactive material is contained in solid pellet form with a stainless steel filler that is doubly encapsulated in stainless steel capsules and heliarc welded in both cases. The minimum wall thickness is 0.020 inches for the inner capsule and 0.030 inches for the outer capsule. The outer capsule can have a diameter from 0.125 to 1.0 inches and a length from 0.25 to 3.0 inches.

Isotopes

Americium-241  
Cobalt-60.  
Cesium-137  
Barium-133  
Mercury-197 and 203  
Chromium-51

(b)(2)

(Up to 1 curie of any of the above isotopes except Radium-226 (up to 20 millicuries)

(b)(2)

LABELING:

The source is labeled with the model number and serial number. When shipped, it will be attached to a tag labeled "Danger-Radioactive Material-Do Not Handle-Notify Civil Authorities If Found."

PROTOTYPE TESTING:

The capsule has a C-43335 USASI classification and will withstand at least 2500 psi external pressure.

QUALITY ASSURANCE AND CONTROL:

The source is vacuum tested in glycol and wipe tested prior to transfer.

ISSUING AGENCY:

Texas State Department of Health Resources