

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

Rec'd  
8/18/86  
LB

NO: TX333S116S

DATE: August 11, 1986

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SEALED SOURCE TYPE: Radiography Source

MODEL: (b)(2)

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

MANUFACTURER/DISTRIBUTOR:

ISOTOPE: Ir-192

MAXIMUM ACTIVITY: (b)(2)

LEAK TEST FREQUENCY: 6 months

PRINCIPAL USE: Industrial Radiography

CUSTOM SOURCE: \_\_\_\_\_ YES \_\_\_\_\_ X NO

CUSTOM USER:

B/16

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SEALED SOURCE TYPE: Radiography Source

DESCRIPTION: The source capsule is essentially of the same construction for all the models shown above. The models differ primarily in the type of pigtail to which they are attached. The capsules are doubly encapsulated, made of stainless steel and have a minimum wall thickness of 0.030 inch. They are heliarc welded, visually inspected, vacuum leak tested, and wipe tested for contamination. The capsule cap is swaged to the pigtail and tested for 150 pounds of tension capability prior to heliarc welding.

The various model sources are designed as replacement sources to the cameras listed below:

<u>Model Source</u>	<u>Model Exposure Device</u>
(b)(2)	Budd Co. (b)(2) Budd Co. Budd Co. Budd Co. Budd Co. Budd Co.

Note: RBG model designates a Gamma Industries type disconnect.  
RBR model designates a Radionics type disconnect.

(b)(2)	Radionics (b)(2) Radionics Radionics Radionics
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Note: RRG model designates a Gamma Industries type disconnect.

(b)(2)

Note: RSG model designates a Gamma Industries type disconnect.

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SEALED SOURCE TYPE: Radiography Source

DESCRIPTION (CONT'D):

Model Source

(b)(2)

Model Exposure Device

Gamma Industries Gamma Century, Gamma 35  
Source Production and Equipment company 2T

Note: (b)(2) designates a Gamma Industries type disconnect.

(b)(2)

Note: RTG designates a Gamma Industries type disconnect.

(b)(2)

(b)(2)

Note: RCG designates a Gamma Industries type disconnect.

LABELING:

Each source is engraved on the connector end of the pigtail with the serial number.

PROTOTYPE TESTING:

The manufacturer states that testing indicates the capsule ANSI classification to be 77C43515.

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE:

All sources can be shipped and exchanged using the Gulf Nuclear Model RC-6C source changer.

DATE: 8-7-86

REVIEWED BY: *Roy D. Austin*

DATE: 8/7/86

REVIEWED BY: *Joseph G. Klunger*

ISSUING AGENCY: Texas Department of Health