

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

NO. : TX333S114U

DATE: April 1974

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SEALED SOURCE TYPE: Well Logging, Road Logging, Density Gauge Source

MODEL: CS-'2

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

MANUFACTURER/DISTRIBUTOR:

ISOTOPE: Cesium-137

MAXIMUM ACTIVITY: 2 curies

LEAK TEST FREQUENCY:

PRINCIPAL USE: Gamma Gauges

CUSTOM SOURCE: ___ YES X NO

A/S

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DESCRIPTION:

This source is doubly encapsulated in stainless steel with each capsule sealed by heliarc welding. The inner capsule has a minimum wall thickness of .030 inch and the outer capsule has a minimum thickness of $\emptyset.026$ inch. The outer capsule has a hexagonal end bolt fitting and has an overall length of 1.504 inches and diameter of 3/8 inch. The cesium-137 is contained in microsieve resin pellets that are pressed into the inner capsule.

LABELING:

The outer capsule is engraved with NEEI-CS-2. A metal tag with "Danger-Radioactive Material-Do Not Handle-Notify Civil Authorities If Found" is attached to the source when sold.

PROTOTYPE TESTING:

The manufacturer states the source has a USASI classification of C-46535 which is adequate for well logging.

QUALITY ASSURANCE AND CONTROL:

The source is vacuum/bubble tested for leakage after fabrication.

ISSUING AGENCY:

Texas State Department of Health