

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES  
SAFETY EVALUATION OF DEVICE

NO.: TX333D128U

DATE: October 1979

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DEVICE TYPE: Survey Instrumentation Calibration Unit

MODEL: IC-51

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

MANUFACTURER/DISTRIBUTOR:

SEALED SOURCE MODEL DESIGNATION: Gulf Nuclear CSV

ISOTOPE: Cesium-137

MAXIMUM ACTIVITY: 1 Curie

LEAK TEST FREQUENCY:

PRINCIPAL USE: Calibration Sources (Activity greater than 30 mCi)

CUSTOM DEVICE:  YES  NO

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DESCRIPTION:

The device consists of a six-inch diameter lead-filled aluminum cylindrical shield about nine inches in height. It has a source rod located along the cylindrical axis which keeps the source shielded when the rod is in the "down" position. When the rod is raised it places the source in a position behind the beam port which allows a gamma ray beam to be emitted perpendicular to the shield. The device has a lock which keeps the control rod in the "OFF" position when not in use. The device weighs about 92 pounds and has a handle on its top.

LABELING:

The device is labeled with the name of the manufacturer, the model number, isotope, activity date, serial number and conventional radiation symbol and caution.

EXTERNAL RADIATION LEVELS:

The highest surface radiation level with a one curie source is 15 mr/hr. At six inches the maximum reading is 2 mr/hr.

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE:

A qualified person should use the device even though comprehensive instructions are provided with the device. The device should be placed upon a table and used with the calibration chart provided with the device. Since the device emits a beam; the operator may position himself outside the beam when calibrating meters. Each device is pre-calibrated before shipping to the customer. Instructions for source decay are provided with the device. The device should provide calibrations within  $\pm 20\%$  when properly used.

ISSUING AGENCY:

Texas Department of Health