

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

NO.: TX333S105U

DATE: May 1972

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SEALED SOURCE TYPE: Oil & Gas Well Logging, Instrument Calibration

MODEL: CO-50

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

MANUFACTURER/DISTRIBUTOR:

ISOTOPE: Cobalt-60

MAXIMUM ACTIVITY: 50 millicuries

LEAK TEST FREQUENCY:

PRINCIPAL USE: Oil Well Logging

CUSTOM SOURCE:  YES  NO

A/2

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DESCRIPTION:

Cobium (cobalt aluminum alloy) wire(s) as active material is doubly encapsulated in Type 316 or 304 stainless steel. Minimum wall thickness: 0.100 inch for outer capsule and 0.040 inch for inner capsule. Overall dimensions: 1.50 inches long by 0.50 inch diameter. The inner and outer capsules are closed by heliarc welding.

LABELING:

Each source will be engraved with the following:

CAUTION  
RADIOACTIVE MATERIALS  
DO NOT HANDLE  
NEEI CS-50 (S/N)

PROTOTYPE TESTING:

Prototypes were tested to 30,000 psi and 500°C without failure.

QUALITY ASSURANCE AND CONTROL:

Sources are subjected to 33 inches of vacuum in ethylene glycol solution for visible leakage. A wipe for countable activity is also performed. A leak test certificate will be furnished with each source.

ISSUING AGENCY:

Texas State Department of Health