

VETERANS ADMINISTRATION

HOSPITAL

150 MUIR ROAD

MARTINEZ, CALIFORNIA 94553

January 10, 1979

IN REPLY

612/114B

Nuclear Regulatory Commission License Management Branch Division of Fuel Cycle and Material Safety Washington, D. C. 20553

Attn: Francis A. St. Mary

Gentlemen:

02020120

We understand from your letter of November 29, that our previous application has been voided, and this communication is intended to serve as an application for amendment of License No. 04-02956-02. In response to your letter regarding authorization to possess and use a 100 millicurie Cs-137 sealed source (letter no. 96984), additional information is enclosed which hopefully will satisfy your requirement for licensing approval. In checking with the manufacturer, J. L. Shepherd and Associates, we were informed that the Series 10 Portable Beam Calibrator uses an NRC approved Cesium-137 source capsule designated U. S. Nuclear Source Type 375.

A data sheet on the calibrator is enclosed. Although the source is removable from the calibrator for applications involving free source exposure, the application involves use of the source for port beam exposures of radiation survey instruments for calibration. The radiation safety hazard involving a beam port will be significantly less than that involved with a panoramic type exposure.

Procedures for use and storage of the calibrator will be as follows:

- 1. The source and container will be stored in Room D-57 in a locked cabinet with keys restricted to personnel in Radio-therapy Service only. The source, during periods of storage, will be locked in the shielded storage container and access by key limited to the radiation physicist, who will use the calibrator. The external radiation level as specified by the manufacturer is 5 mR/hr or less at one foot from the surface.
- 2. The beam calibrator will be labeled with appropriate warning signs and source identification including nuclide activity and date of calibration. Security for the premises is provided by hospital police.

3. Use of the source will be limited to the radiation physicist and the location of use will be Room D-57. This room has shielding designed for use of a Cobalt-60 teletherapy unit, and modified

"To care for him who shall have borne the battle, and for his widow, and his orphan." - ABRAHAM LIN COLN

for a 6 MeV linear accelerator, and is more than adequate to limit the exposure of employee personnel outside of Room D-57 to much less than the maximum allowable. Access to the area outside of the room during use is limited to radiation workers and medical center employees.

- 4. Occupancy of room will be limited to the radiation physicist at all times during use of the calibrator. The radiation physicist will always wear a film badge and a pocket chamber or digital dosimeter during use. Care will be taken to restrict as much as possible individual exposure to areas outside of the beam defined by the beam port of the device.
- 5. At no time will the calibrator be left unattended with the source exposed without any shielding.
- 6. Wipe tests will be performed at six month intervals.

Sincerely yours,

C. H. NIXON

Hospital Director

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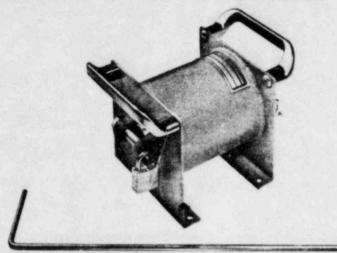
P.S. We just learned from T. L. Shepherd that the calibrator device has been approved by the State of California Bureau of Radiological Health for several years. They have been informed of the apparent lack of licensure by NRC and as a result, have mailed documentation regarding state approval to the NRC licensing branch.

JAN 1 9 1979

JAMES J. SMITH. M. D. (116) Director, Mudlear Wed forme Service VA Central Office Medicine Service

Washington, D, S,

SERIES 10 PORTABLE BEAM CALIBRATORS WITH REMOVABLE SOURCES



Model 10 are lightweight, portable Calibration Facilities designed for the calibration of low or intermediate range survey meters, as well as remote area monitor probes or other applications in which it is desirable to use a small gamma source with attached handler for panoramic or free air exposures.

These units include a 100 mCi ¹³⁷Cs gamma source mounted on the end of a shielded plug, which fits into an NRC/DOT approved shipping and storage container. A handler, which threads into the shielded end of this plug, is supplied so that the source may be removed from the shield for panoramic exposures. A second removable plug is provided in line with the source, which may be removed to provide a 20° beam port for the calibration of survey instruments.

These shields are equipped with handles so that they may be easily transported.

An 18 inch handler is provided for manipulation of the source in free air exposures.

All sources are calibrated free air with an accuracy of \pm 5% with Bureau of Standards traceable Roentgen Meters.

SPECIFICATIONS

External radiation level is 5 mR/hr or less at one foot from the surface.

All beam port plugs as well as source rods are equipped with padlocks for storage.

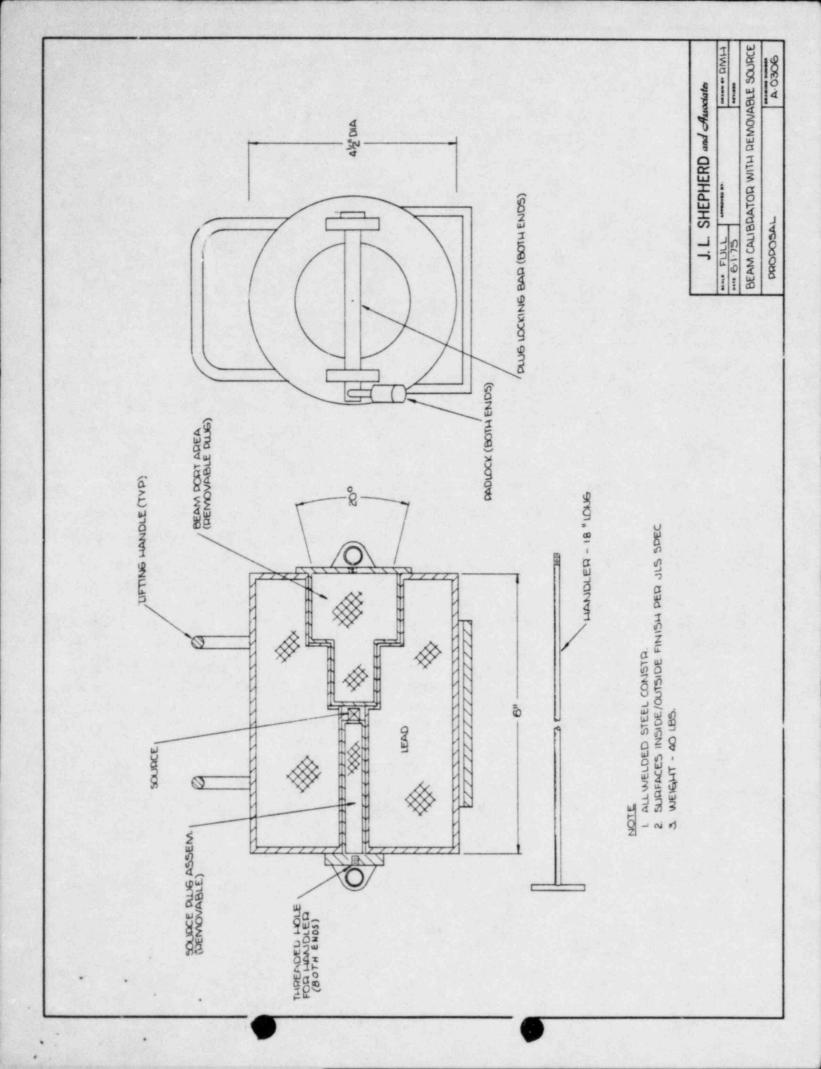
	Source	Weight	Output		Price
			12 inch	40 inch	
Model 10	100 mCi 137Cs	40 pounds	350 mR/hr	32 mR/hr	\$695.00
Model 10A	20 mCi 137Cs	20 pounds	54 mR/hr	5 mR/hr	\$650.00

Delivery from stock.

F.O.B.: Glendale, California.

JLSHEPHERD and Associates
740 SALEM ST.
GLENDALE, CA 91203
(213) 245-0187

98283



SERIES 10 PORTABLE BEAM

CALIBRATORS WITH REMOVABLE SOURCES

Model 10 are lightweight, portable Calibration Facilities designed for the calibration of low or intermediate range survey meters, as well as remote area monitor probes or other applications in which it is desirable to use a small gamma source with attached handler for pancramic or free air exposures.

These units include a 100mCi ¹³⁷Cs gamma source mounted on the end of a shielded plug, which fits into an NRC/DOT approved shipping and storage container. A handler, which threads into the shielded end of this plug, is supplied so that the source may be removed from the shield for panoramic exposures. A second removable plug is provided in line with the source, which may be removed to provide a 20° beam port for the calibration of survey instruments.

These shields are equipped with handles so that they may be easily transported. Weight is only 40 pounds.

An 18 inch handler is provided for manipulation of the source in free air exposures.

All sources are calibrated free air with an accuracy of ±5% with Bureau of Standards traceable Roentgen Meters.

SPECIFICATIONS

External radiation level is 5 mR/hr or less at one foot from the surface.

All beam port plugs as well as source rods are equipped with padlocks for storage.

Carrying handle and storage tube for handler are built in.

Source 100 mCi 137Cs "Special Form"

Output 6" 12" 20" 40"

1400 mR/hr 350 mR/hr 128 mR/hr 32 mR/hr

Handler 18" long

Weight 40 pounds

Dimensions Shield 4½" dia. x 6" long

Overall 4½" side x 10" long x 10" high

Price \$645.00

Model 10-A with 50 mCi. 137Cs source. Weight 32 lbs. Otherwise identical to Model 10. Price \$595.00.

J L SHEPHERD and Associates
740 SALEM
Glendale, California
213 245-0187

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