

POGUE INDUSTRIES INCORPORATED

5200 Manchester
St. Louis, Mo. 63110

Radiation Safety and Control Procedure

10.2.B

Survey Instrument Calibration Procedure

(performed by outside vendors)

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SURVEY INSTRUMENT CALIBRATION PROCEDURE

1.0 SCOPE

- 1.1 This procedure describes the method and general requirements in which survey instruments of PII shall be calibrated by outside vendors.

2.0 GENERAL

- 2.1 The method described herein is designed to assure survey instruments of PII calibrated by outside vendors meet the minimum requirements of PII, PII Radiation License conditions and USNRC, Title 10 CFR or applicable Agreement State regulations.
- 2.2 Survey instruments shall be calibrated at intervals not to exceed three months and after servicing.
- 2.3 Survey instrument accuracy shall not exceed $\pm 20\%$ of the actual known intensity calibrator.

3.0 REFERENCES

- 3.1 U.S. Nuclear Regulatory Commission, Title 10 CFR or applicable Agreement State regulations.

4.0 PERSONNEL

- 4.1 Any survey instrument calibration service vendor listed on Attachment #1 and whose procedures have been approved by the Radiation Safety Officer of PII may calibrate PII survey instruments provided the vendor complies with the general requirements specified in this procedure.

5.0 EQUIPMENT

- 5.1 Survey instrument shall be calibrated by survey instrument calibration devices containing Cobalt 60 or Cesium 137.

6.0 PROCESS

- 6.1 Survey instruments shall be calibrated in accordance with the vendors approved calibration procedure provided the requirements specified in this procedure are met.

6.0 PROCESS continued

- 6.2 Survey instrument calibration shall be accomplished by checking two points on each range. These points shall be separated at least 50% of the full scale reading.
- 6.3 An adhesive label shall be affixed to each calibrated survey instrument. As a minimum, the label shall contain the following information:
- (a) Date calibrated;
 - (b) Date calibration due;
 - (c) Serial number of unit.

7.0 REPORTS

- 7.1 Records of survey instrument calibrations shall contain as a minimum the following information:
- (a) Name of vendor supplying survey instrument calibration service;
 - (b) Make, model, S/N of survey instrument calibrated;
 - (c) Range checked;
 - (d) Two calculated intensities on each range;
 - (e) Survey instrument reading at calculated intensities;
 - (f) Date calibrated;
 - (g) Calibration and date;
 - (h) Byproduct material used to calibrate;
 - (i) Technician performing calibration;
 - (j) Information regarding any repairs.

8.0 ACCEPTANCE CRITERIA

- 8.1 Survey instruments which cannot be calibrated within $\pm 20\%$ of the known calibrator intensity on any range shall be unacceptable.

ATTACHMENT #1

SURVEY METER CALIBRATION SUPPLIERS

<u>Supplier</u>	<u>Location</u>	<u>License #</u>
Technical Operations	Burlington, MA	NRC-20-00277-03
Applied Health Physics	Bethel Park, PA	NRC-37-09135-01
St. Louis, Testing	St. Louis, MO	NRC-24-00188-02
Industrial Nuclear	Foster City, CA	Calif. 222-9-41
Gamma Industries	Baton Rouge, LA	LA 0006-L01