



**IMAGING SCIENCES  
INTERNATIONAL INC.**

1910 North Penn Road  
Hatfield, PA 19440, USA

Phone (215) 997-5666  
Fax (215) 997-5665, 5667

To: Steven Courtemanche

Company: NRC

Phone: 610 337-5075

Fax: 610 337-5269

From: Mario P. Infanti  
Quality Assurance & Regulatory Affairs Manager  
Email: [infantm@imagingciences.com](mailto:infantm@imagingciences.com)

Date: October 23, 2006

Total Pages 2

Comments: Hello,

Please see attached Calibration Report which is performed annually.

Sincerely,

Mario

Calibration Report  
As Calibrated-1442-1-24-2006

FLUKE

Biomedical

Probe Model #: 489-4  
Probe Serial Number: 1442  
Customer Name: IMAGING SCIENCES  
Survey Meter Model #: 490  
Survey Meter S/N: 2605  
Customer P.O.: 692  
Received: 1/19/2006  
Inovision WO/RO/SO: 170272  
Probe Description: GM Tube  
Survey Meter Description: Analog Survey Meter  
Tolerance: The unit reads within +/- 10% with correction factors applied.

Environmental Constraints:

The Model 490 Survey meter with the Model 489-4 Detector is designed to read accurately from -10 C to +40 C and from 0 to 80 % relative humidity.

Calibration Description:

The Model 490 is connected to the 489-4 and exposed through the side of the detector. The uncertainty of the calibration is 3.6%, with 2.2% associated with the uncertainty of the source. This calibration is traceable to the National Institute of Standards and Technology.

The calibration is warranted to be within specified accuracy limits, at the time of calibration. In the event of a calibration error, our liability is limited to standard recalibration cost. We cannot be responsible for injury or damages resulting from improper use.

The suggested re-calibration date on the probe is only a suggestion. The actual frequency of re-calibration may vary depending on Federal, State, or Local requirements.

Proper function and reliability of the instrument described in this document are highly dependent upon handling and use. It is recommended the user establish a technique to monitor the constancy of the instrument response before and after its return to the manufacturer.

This certificate shall not be reproduced except in full, without the written approval of the manufacturer. If there are any problems with the calibration of the instrument, please contact the calibration laboratory manager.

Calibration Data

Calibration Data:	As Calibrated	Pressure (mm Hg):	724.7		
Temperature (C):	22.5	Humidity (%):	43		
Background (mR/hr):	0.02	Check Source (mR/hr):	0.85		
Source	Scale	Rate (mR/hr)	Net (mR/hr)	% Error	Correction Factor
500 mCi-Cs-137 x 0.1 Range	0 - 0.2	0.071	0.073	2.50%	0.98
500 mCi-Cs-137 x 0.1 Range	0 - 0.2	0.142	0.143	0.39%	1
500 mCi-Cs-137 x 1 Range	0 - 2	0.666	0.680	2.13%	0.98
500 mCi-Cs-137 x 1 Range	0 - 2	1.26	1.280	1.60%	0.98
500 mCi-Cs-137 x 10 Range	0 - 20	6.16	6.180	0.35%	1
500 mCi-Cs-137 x 10 Range	0 - 20	12.4	11.980	-3.17%	1.03

Authorized Calibration and Service  
Victoreen  
Nuclear Associates  
Keithley RMD  
Inovision

Calibrations Programs  
ISO 17025  
ANSI Z540  
Mammography MQSA  
NIST & PTB Traceable  
CNCS

Quality Programs  
ISO 9001:2000  
ISO 13485:1996  
FDA/FSR  
NRC/Part 50,  
Appendix B/Part 21

Calibration Performed by: [Signature] Date: 1/24/06  
Technical Review: [Signature] Date: 1/24/06  
The suggested recalibration date is: 1/24/2007