



March 21, 2022

**TO:** Jason E. VonEhr, Health Physicist  
Commercial, Industrial, R&D and Academic Branch  
Division of Radiological Safety and Security Region I

**FROM:** SPEC GROUP LLC – PEDRO FEBO

**Re:** SURVEY METER  
**52-24862-01**

Dear Mr. VonEhr:

This letter is to attest that Spec Group LLC possess a survey meter Ludlum 2401-EC SN: 157985, to performed readings once a month or whenever is necessary.

Universidad Central Del Caribe  
CRMI Survey Meter Calibration Service  
Instrument Calibration Report  
NRC License 52-25430-01

Calibration For: SPEC Group, PSC  
Calibrated By: David Rhoe  
Check Source ID: Sn157985  
Check Source mR/hr: **Non provided**  
Calibration Geometry: Perp  
  
Insrtument: Ludlum 2401-EC Sn157985  
Calibration Source: Cs-137, Model # 77302, Serial # S-764  
Original mR/hr @ 1m: 50.952  
Date of original mR/hr: 27-Oct-99  
Calibration Date: **19-Feb-22**  
mR/hr @ 1m on Cal Date: **30.43**

Scale mR/hr	Attenuator	Distance meters	mR/hr Calculated	mR/hr Measured	Trigger +/- 20 Percent	Trigger Percent Avgerage
200	1	0.44	160	160	1.00	1.13
	4	0.44	40	50	1.25	
20	10	0.44	16	16.5	1.03	0.95
	40	0.44	4	3.5	0.88	
2	100	0.44	1.6	1.6	1.00	1.13
	400	0.44	0.4	0.5	1.25	

The formula for % Error is (Measured/Calculated)  
Trigger limit is +/- 20 percent (Corr Factors from 1.2 to 0.8)

If there are any questions, contact the undersigned at your convenience.

Respectfully submitted,

PEDRO FEBO BORIA, RSO, AE  
Engineer/Vice-President