

June 28, 2005

UNIVERSAL CONSULTANTS, INC.

CONSULTING PHYSICS GROUP

35888 Center Ridge Road, Suite #7 North Ridgeville, Ohio 44039 (440) 327-9432 Fax (440) 327-6280

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U.S. NRC Region 1 Commercial & R&D Branch Division of Nuclear Materials Safety Mr. Thomas Thompson 465 Allendale Road King of Prussia, PA 19406-1415

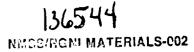
RE: Docket No. 03014938 Control No. 136544 License No. 47-14258-01

Dear Mr. Thompson:

Enclosed please find the additional information for the license renewal for Wheeling Jesuit University.

Items #1 and #2

Byproduct, source and/or special nuclear material	Chemical and/or physical form	Maximum amount that licensee may possess at any one time under this license	Authorized Use
Tc - 99m	Any	500 mCi	Teaching & training of students
Cs - 137	Rod	0.1 uCi	Teaching & training of students
Cs - 137	Rod	0.1 uCi	Teaching & training of students
Cs-137	Rod	0.0.87 uCi	Teaching & training of students
Cs-137	Vial E	212 uCi	Teaching & training of students
Cs - 137	Vial E	213.4 uCi	Teaching & training of students
Cs - 137	Disc		Teaching & training of students
Co – 60	Vial E	51 uCi	Teaching & training of students
Co - 60	Rod	0.1 uCi	Teaching & training of students



Co – 57	Vial	5.41 mCi	Teaching & training of students
Ba - 133	Rod	0.1 uCi	Teaching & training of students
Bi – 210	Disc		Teaching & training of students
Bi – 210	Disc		Teaching & training of students
l -129	Rod	0.1 uCi	Teaching & training of students
TI – 201 Chloride	Any	100 mCi	Teaching & training of students
Ga - 67 Citrate	Any	10 mCi	Teaching & training of students
U – 238	Disc	1891 CPM	Teaching & training of students

<u>Item #3</u>

Please delete reference to Ms. Donna Mason as an authorized user.

Item #4

A Ludlum Frisker SN#2241 with detector SN PWGM/HP-210T is available along with a Ludlum Model 3, and a Victoreen Model 498. Appropriate data for each of these meters is attached.

If you have any questions please feel free to contact me.

Sincerely,

Vincent A. Jargan

Vincent A. Gargaro, MS, Medical Physicist Adjunct Faculty

VAG:mb

Enclosures

SURVEY METER CALIBRATION REPORT

Facility: Manufacturer: Meter Model # Meter Serial #	N	Wheeling Jesuit University Ludlum 3 113252			t Nuclear Medicine el: 44-7 al : 112713
Instrument Checks:	Battery Ch	eck: OK	mR/hr or		Ion Chamber
Constancy Check:	integral	check source indic			GM X
		_mCi of	h yellow door clos indicates	mR/hr	Nal
CALIBRATION GEON Window: Open	ETRY Calibration Date				
	Scale Factor	Exp Rate	Filters	mR/hr/Cl	F
				····	
	x 1000	NA			
	× 100	140	.1	140	·····
	x 100	<u>35</u> 14	.1 + .25 .1 + .1	<u>35 / 1.0</u> 14	
	x 10	3.5	.1 + .1 + .25	3.5 / 1.0	
	<u> </u>	1.4 @ 162.9 cm	.1	1.4	·
	x 1	.35	.1 + .25	.35 / 1.0	
		.14	.1 + .1	.14	
	x 0.1	.035	.1 + .1 + .25	.035 / 1.0	D

This survey meter was calibrated to within +/-10% of the calculated value on each range indicated. Ranges not indicated were not calibrated. The calibration was performed by using an NIST traceable source of Cs-137 in a Tech Ops Model 773 calibrator of approximately 5.29 GBq (143 mCi) in accordance with procedures authorized by Ohio License #03225480006 for Universal Consultants, Inc. Maintain this record for inspection by regulatory agencies

Universal Consultants, Inc. 35888 Center Ridge Road, Suite #7 North Ridgeville, OH 44039 PH: 440-327-9432

Vincent a fargon

Vincent A. Gargaro, MS, Medical Physicist

Model 44-7 End Window Detector

PART NUMBER:47-1536

The Model 44-7 is an end window G-M that can be used with several different instruments including survey meters, scalers, ratemeters, and alarm ratemeters



INDICATED USE: Alpha beta gamma survey; Sample counting DETECTOR: End window halogen quenched G-M WINDOW: 1.7 plus or minus 0.3 mg/cm² mica WINDOW AREA: Active - 6 cm^2 Open - 5 cm² EFFICIENCY(4pi geometry): Typically 2%-C-14; 10%-Sr-90/Y-90; 7%-Pu-239 SENSITIVITY: Typically 2100 cpm/mR/hr (137Cs gamma) **ENERGY RESPONSE:** Energy dependant **DEAD TIME:** Typically 200 microseconds **COMPATIBLE INSTRUMENTS:** General purpose survey meters, ratemeters, and scalers **OPERATING VOLTAGE: 900 volts CONNECTOR:** Series "C" (others available) **CONSTRUCTION:** Anodized aluminum housing TEMPERATURE RANGE: -4° F(-20° C) to 122° F(50° C) May be certified for operation from -40° F(-40° C) to 150° F(65° C) SIZE: 1.8" (4.6 cm) Diameter X 5.8" (14.7 cm)L WEIGHT: 1 lb (0.5kg)

click on links for :Instrumentation Ludlum ShieldingSourcesSoftwareHepa Vacuums Air SamplingAccessoriesHoods and FiltersDosimetrySpecialsEmergency ResponseNuclear MedicineRadiation TherapySEARCHHome<</td><</td>(- Back

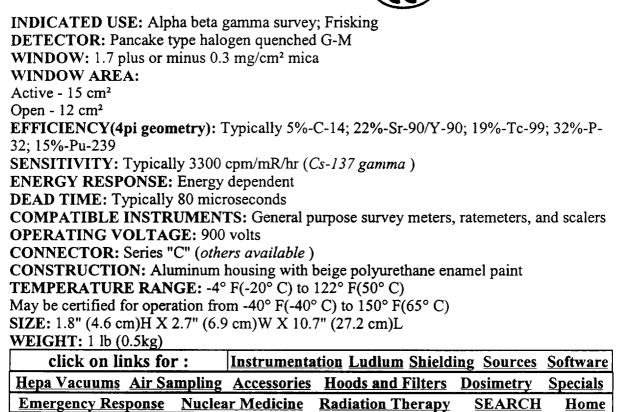
Direct Scientific tel (888) 368 9118 or (310) 589 0601 fax (888) 440-1319

1020 Turnpike St. #9 Canton MA 02021 Email

Model 44-9 Pancake G-M Detector PART NUMBER:47-1539

The Model 44-9 is a pancake G-M that can be used with several different instruments including survey meters, scalers, ratemeters, and alarm ratemeters





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Direct Scientific tel (888) 368 9118 or (310) 589 0601 fax (888) 440-1319

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Facility: Manufacturer: Meter Model Meter Serial	W	/heeling Jesuit Univ Victoreen 498 332	versity	Department Probe Model Probe Serial	
Instrument Checks	Battery Check	k: OK	mR/hr or		Ion Chamber
Constancy Check:	Integral c	heck source indica On x 10 scal mCi of	tes: <u>2.5</u> e shield open indicates	_mR/hr mR/hr	GM X
CALIBRATION GE Window: Open		Closed X	Fixed		
	Calibration Date		5/16/2005		
	Scale Factor	Exp Rate	Filters	mR/hr/CF	
		800 @ 20 cm	None	800	
	x 1000	200	0.25	200 / 1.0	
		80 @ 68.5 cm	None	80	
	x 100	20	0.25	20 / 1.0	
		8.0	.1	8.0	
	<u>x 10</u>	2.0	.1 + .25	2.0 / 1.0	
		0.8	.1 + .1	0.8	
	x 1	0.2	.1 + .1 + .25	0.2 / 1.0	

This survey meter was calibrated to within +/-10% of the calculated value on each range indicated. Ranges not indicated were not calibrated. The calibration was performed by using an NIST traceable source of Cs-137 in a Tech Ops Model 773 calibrator of approximately 5.29 GBq (143 mCi) in accordance with procedures authorized by Ohio License #03225480006 for Universal Consultants, Inc. Maintain this record for inspection by regulatory agencies

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Vincent A. Gargaro, M.S., Physicist