Semi-Annual Inventory of Sealed Sources

Walter L. Robinson & Associates

Client: **KENT GENERAL HOSPITAL** Date: **12/3/08**

Radio-nuclide	Source Type	Location	Serial Number	Possession Limit (mCi)	Stated Activity	Calibration Date	Approx. Activity
Co-57	FLOOD	Hot Lab	BM01101314	30 mCi/source	10 mCi	7/19/2004	0.171 mCi
Co-57	FLOOD	Hot Lab	1185-004	30 mCi/source	10 mCi	5/1/2006	0.90 mCi
Co-57	FLOOD	Hot Lab	BM01103189	30 mCi/source	10 mCi	10/12/2007	3.48 mCi
Co-57	DC STD	Hot Lab	BM06-57003-12	30 mCi/source	5.69 mCi	1/27/2003	24.4 uCi
Co-57	DC STD	Hot Lab	BM06E-57-56-43	30 mCi/source	5.80 mCi	8/20/2007	1.67 mCi
Co-57	ROD	Hot Lab	851-25-8	30 mCi/source	0.107 uCi	4/1/2002	0.22 nCi
Cs-137	DC STD	Hot Lab	1124-30-21	200 uCi/source	205 uCi	8/1/2005	190.1 uCi
Cs-137	ROD	Hot Lab	042286-011	200 uCi/source	0.102 uCi	4/22/1986	≤ 0.10 uCi
Cs-137	ROD	Hot Lab	Spec. Elec.	200 uCi/source	5.0 uCi	1/12/2005	≤ 5 uCi
Cs-137	(4) Check Sources	Hot Lab	~~~	200 uCi/source	≤ 40 uCi	~~~	≤ 40 uCi
Cs-137	MARKER	Hot Lab	1140-97-9	200 uCi/source	10 uCi	3/1/2006	≤ 10 uCi
Co-57	DC STD	Rad ONC	788-14-28	30 mCi/source	5.674 mCi	12/1/2001	8.20 uCi
Ba-133	DC STD	Rad ONC	788-31-2	200 uCi/source	277.9 uCi	1/1/2002	177.1 uCi
Cs-137	DC STD	Rad ONC	788-3-12	200 uCi/source	261.2 uCi	11/1/2001	222.2 uCi
Cs-137	ROD	Rad ONC	~~~	200 uCi/source	0.5 uCi	10/1/2001	≤ 5 uCi
Cs-137	(4) Check Sources	Rad ONC	~~~	200 uCi/source	≤ 13 uCi	5/1/1997	≤ 3 uCi

Any possession limits exceeded? **NO**

Any sealed sources that can be disposed of after proper monitoring? **NO**

Radiation Survey of these sources yielded maximum of: **0.08** mR/hr. (Hot lab Lead fort)
0.05 mR/hr (Hot lab Oncology) **0.06** mR/hr (Cabinet)

Jay M. Yoder
Consultant Radiation Physicist

Radiation Safety Officer Date

WIPE TEST OF SEALED RADIOACTIVE SOURCES

PERFORMED BY: WALTER L. ROBINSON & ASSOCIATES: CONSULTANT RADIATION PHYSICISTS 1-800-446-7622

CLIENT: **KENT GENERAL HOSPITAL** DATE: **12/3/08**

Wipes Measured On: **AtomLab 950**

Reference source of: 0.03991 uCi yielded 26,340 counts.
Therefore, 0.005 uCi equals: 3,300 net standard counts.

RADIO-NUCLIDE	LOCATION STORED	TYPE OR USE	SERIAL NUMBER	APPROX. ACT. (mCi)	NORMALIZED STD. ACT.	NET STD. COUNT	NET WIPE COUNT	REMOVABLE ACT. (uCi)	% OF LIMIT
Co-57	Hot Lab	Flood	BM01101314	0.17 mCi	0.005	3300	0	0.00E+00	0.00%
Co-57	Hot Lab	Flood	BM01103189	3.48 mCi	0.005	3300	2	3.03E-06	0.06%
Co-57	Hot Lab	Flood	1185-004	0.90 mCi	0.005	3300	1	1.52E-06	0.03%
Co-57	Lead Fort	D.C. Std	BM06E-57-56-43	1.67 mCi	0.005	3300	4	6.06E-06	0.12%
Cs-137	Lead Fort	D.C. Std	1124-30-21	190.1 uCi	0.005	3300	3	4.55E-06	0.09%
Ba-133	ONC	D.C. Std	788-31-2	177.1 uCi	0.005	3300	2	3.03E-06	0.06%
Cs-137	ONC	D.C. Std	788-31-12	222.2 uCi	0.005	3300	1	1.52E-06	0.03%

NOTE: In accordance with 10CFR 35.67.f.(3)&(5), all other sources are below 100 uCi and/or being held for decay in storage, and thus, need not be wipe tested.

Wipes Collected By: Jay M. Yoder Wipes Measured By: Jay M. Yoder

Reviewed By the Radiation Safety Officer: _____ Date Reviewed: _____

Semi-Annual Inventory of Sealed Sources

Keystone Physics Limited

Client: **KENT GENERAL HOSPITAL** Date: **6/5/2013**

Radio-nuclide	Source Type	Location	Serial Number	Possession Limit (mCi)	Stated Activity	Calibration Date	Approx. Activity
Co-57	FLOOD	Hot Lab	BM011010118104	30 mCi/source	10 mCi	5/28/2010	0.609 mCi
Co-57	FLOOD	Hot Lab	BM011012201202	30 mCi/source	10 mCi	8/18/2012	4.761 mCi
Co-57	FLOOD	Hot Lab	BM011011187101	30 mCi/source	10 mCi	8/5/2011	1.810 mCi
Co-57	DC STD	Hot Lab	BM06057E12185129	30 mCi/source	5.67 mCi	7/9/2012	2.437 mCi
Co-57	ROD	Hot Lab	851-25-8	30 mCi/source	0.107 uCi	4/1/2002	0.004 nCi
Co-57	DC STD	Hot Lab	BM06057E10118103	30 mCi/source	5.62 mCi	5/4/2010	0.322 mCi
Cs-137	DC STD	Hot Lab	1124-30-21	200 uCi/source	205 uCi	8/1/2005	171.5 uCi
Cs-137	ROD	Hot Lab	042286-011	200 uCi/source	0.102 uCi	4/22/1986	≤ 0.10 uCi
Cs-137	ROD	Hot Lab	Spec. Elec.	200 uCi/source	5.0 uCi	1/12/2005	≤ 5 uCi
Cs-137	(5) Check Sources	Hot Lab / Meters	~~~	200 uCi/source	≤ 40 uCi	~~~	≤ 40 uCi
Cs-137	MARKER	Hot Lab	1140-97-9	200 uCi/source	10 uCi	3/1/2006	≤ 10 uCi
Co-57	DC STD	Hot Lab	788-14-28	30 mCi/source	5.674 mCi	12/1/2001	0.202 uCi
Ba-133	DC STD	Hot Lab	788-31-2	200 uCi/source	277.9 uCi	1/1/2002	132.5 uCi
Cs-137	DC STD	Hot Lab	788-3-12	200 uCi/source	261.2 uCi	11/1/2001	200.6 uCi
Cs-137	ROD	Hot Lab	757-65	200 uCi/source	0.5 uCi	10/1/2001	≤ 5 uCi
Cs-137	(3) Check Sources	Rad ONC / On Meters	~~~	200 uCi/source	≤ 13 uCi	5/1/1997	≤ 3 uCi

Any possession limits exceeded? **NO**

Any sealed sources that can be disposed of after proper monitoring? **NO**

Radiation Survey of these sources yielded maximum of: **0.07** mR/hr. (Hot lab Lead fort)
0.04 mR/hr (Hot lab Oncology) **0.10** mR/hr (Cabinet)

Jay M. Yoder
Consultant Radiation Physicist

Adam M. Henry
Radiation Safety Officer

WIPE TEST OF SEALED RADIOACTIVE SOURCES

PERFORMED BY: KEYSTONE PHYSICS LIMITED: CONSULTANT RADIATION PHYSICISTS

CLIENT: **KENT GENERAL HOSPITAL** DATE: **6/5/2013**

Wipes Measured On: **AtomLab 950**

Reference source of: 0.38250 uCi yielded 292,039 counts.
Therefore, 0.005 uCi equals: 3,818 net standard counts.

RADIO-NUCLIDE	LOCATION STORED	TYPE OR USE	SERIAL NUMBER	APPROX. ACT. (mCi)	NORMALIZED STD. ACT.	NET STD. COUNT	NET WIPE COUNT	REMOVABLE ACT. (uCi)	% OF LIMIT
Co-57	Hot Lab	Flood	BM011010118104	0.609 mCi	0.005	3818	6	7.86E-06	0.16%
Co-57	Hot Lab	Flood	BM011011187101	1.810 mCi	0.005	3818	4	5.24E-06	0.10%
Co-57	Hot Lab	Flood	BM011012201202	4.761 mCi	0.005	3818	5	6.55E-06	0.13%
Cs-137	Lead Fort	D.C. Std	1124-30-21	171.5 uCi	0.005	3818	4	5.24E-06	0.10%
Co-57	Lead Fort	D.C. Std	BM06057E12185129	2.437 mCi	0.005	3818	7	9.17E-06	0.18%
Ba-133	Lead Fort	D.C. Std	788-31-2	132.5 uCi	0.005	3818	5	6.55E-06	0.13%
Cs-137	Lead Fort	D.C. Std	788-31-12	200.6 uCi	0.005	3818	7	9.17E-06	0.18%

NOTE: In accordance with 10CFR 35.67.f.(3)&(5), all other sources are below 100 uCi and/or being held for decay in storage, and thus, need not be wipe tested.

Wipes Collected By: Jay M. Yoder Wipes Measured By: Jay M. Yoder

Reviewed By the Radiation Safety Officer: Adam M. Henry Date Reviewed: 6/5/2013