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FAUQUIER HOSPITAL

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FACSIMILE TRANSMITTAL SHEET

TO: Sandra Gabriel	FROM: Leisa Hirtle (Fauquier Hospital)
COMPANY: NRC	DATE: 7/17/2008
FAX NUMBER: 610-337-5269	TOTAL NO. OF PAGES INCLUDING COVER: 5
PHONE NUMBER:	
RE: Mail Control 142357	

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

Ms. Gabriel,

Please find attached copies of the Hot Lab close out surveys for May 3, 2005 and June 20, 2005.

If you have any questions, please feel free to contact me via email or telephone.

Thank you,

L Hirtle

Leisa Hirtle

Hirtlel@FauquierHospital.org

540-316-4567

DIAGNOSTIC MEDICAL HEALTH PHYSICS

PO BOX 563 NELLYSFORD, VIRGINIA 22958

434 361-9100 FAX 434 361-1344 e-mail: dmhpphysics@aol.com

May 3, 2005

Ms. Leisa Hirtle
Department of Nuclear Medicine
Fauquier Hospital
500 Hospital Drive
Warrenton, Virginia 22186

Dear Ms. Hirtle,

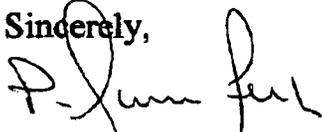
On May 3, 2005, a closeout survey was performed in the former Hot Lab and Skylight camera room following the removal of all equipment and radioactive material.

The survey consisted of survey meter readings performed with a Ludlum 14C #214829 with pancake probe (last calibration 02-05) (range 0.01-2000 mR/hr) and a Ludlum 2221 scintillation counter #65840 (last calibration 12-04). Every square foot of the camera and hot lab room as well as all cabinets and work counters was surveyed with the Ludlum 14C with no detectable reading greater than background (0.02 mR/hr). A total of 73 wipes were performed (approx 1 per (3ft)²) in both the hot lab and camera room. Results indicate that no wipe was in excess of the established background of (257 cpm or 2852 dpm with 11.1% efficiency).

The room may now be released to the general population for renovation. A copy of the floor plan and location of the wipe and survey areas will follow under a separate cover. In addition the efficiency data and conversion factors for wipe test results will accompany that diagram. Upon receipt, attach the information to this letter and maintain the report for review by regulatory officials.

If you have any questions or if I may be of further assistance, please contact me at your convenience.

Sincerely,



P. Norman Fenton, Ph.D.
Radiation Health Physicist

DIAGNOSTIC MEDICAL HEALTH PHYSICS

P.O. Box 563 - Nellysford, Virginia 22958
434-361-9100 - (FAX) 434-361-1344 e-mail: dmhpphysics@aol.com

June 20, 2005

Ms. Leisa Hirtle
Department of Nuclear Medicine
500 Hospital Drive
Warrenton, Virginia
22186

Dear Ms. Hirtle,

On June 14, 2005, the nuclear medicine staff conducted a wipe/leak test closeout survey of the Vertex and Hot Lab areas of the former Nuclear Medicine department at Fauquier Hospital, in Warrenton, Virginia. All survey meter readings were less than or equal to Bkg. mR/hr.

The wipes were counted using a Ludlum Model 2221 Rate meter with a 44-2 scintillation probe.

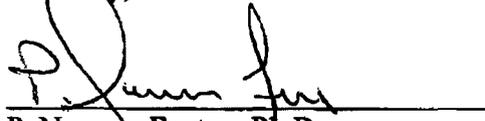
Efficiency response for Co-57 (122 keV) and Cs-137 (662 keV) were determined and documented in the report. Correction factors for converting observed cpm to dpm were determined and the lowest efficiency response (Cs-137) 6.27% was used to convert all wipes.

The results indicate that all wipes were within the acceptable limits of 200 dpm above background and that no residual contamination was present. The rooms may be released to general population use.

Please maintain a copy of this report for review by regulatory officials.

If you have any additional questions or if I may be of further assistance, please contact me at your convenience.

Sincerely,



P. Norman Fenton, Ph.D.
Radiation Health Physicist

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Sealed Source Leak Test/Inventory Con't

The previous referenced sources were leak tested and analyzed utilizing a Ludlum Model 2221 Rate Meter with a 44-2 scintillation probe. The unit was calibrated at the time of the survey in accordance with the manufacturer's recommendations.

Cesium 137 and Cobalt 57 sources were utilized as reference standards

Cs-137 Calibration Activity: 1.12 uCi as of 12-03-1988
 Activity as of: 6/20/2005 0.7668 uCi = 1700161 dpm

Co-57 Calibration Activity: 50 uCi as of 07-01-1995
 Activity as of: 6/20/2005 0.0076 uCi = 16878 dpm

Bkg.: 155 Minimum Detectable Activity = 37.3
 Gross Counts of Cs-137 Calibration Source = 106798 cpm Net cpm = 1E+05
 Gross Counts of Co-57 Calibration Source = 2645 cpm Net cpm = 2490

Cs-137 $\frac{106643}{1700161.18} = 6.27\%$ % eff.

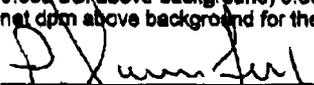
Co-57 $\frac{2490}{16878} = 14.75\%$ % eff. Leak 8 cpm

All observed cpm were multiplied by: 15.943 to obtain dpm

net wipe cpm
 above bkg.

HOT LAB						
Leak 1-5 cpm =	0	=	0 dpm *	Leak 6-10 cpm =	0	= 0 dpm *
Leak 11-15 cpm =	0	=	0 dpm *	Leak 16-20 cpm =	0	= 0 dpm *
Leak 21-25 cpm =	0	=	0 dpm *	Leak 26-30 cpm =	0	= 0 dpm *
Leak 31-35 cpm =	0	=	0 dpm *	Leak 36-40 cpm =	0	= 0 dpm *
Leak 41-42 cpm =	0	=	0 dpm *			
VERTEX ROOM						
Leak 1-5 cpm =	0	=	0 dpm *	Leak 5A-7A cpm =	0	= 0 dpm *
Leak 6-10 cpm =	0	=	0 dpm *	Leak 11-15 cpm =	0	= 0 dpm *
Leak 16-20 cpm =	0	=	0 dpm *	Leak 21-25 cpm =	0	= 0 dpm *
Leak 26-30 cpm =	0	=	0 dpm *	Leak 31-35 cpm =	0	= 0 dpm *
Leak 36-40 cpm =	0	=	0 dpm *	Leak 41-45 cpm =	0	= 0 dpm *
Leak 46-48 cpm =	0	=	0 dpm *			

(*) Within allowable limits established by the NRC & the Commonwealth of Virginia
 (Maximum removable contamination allowed by the State and/or NRC for leak testing =
 0.005 uCi above background) 0.005 uCi = 11,100 dpm above background. The maximum
 net dpm above background for the above wipes was = 0 dpm > background


 P. Norman Fenton, Ph.D.
 Radiation Health Physicist

Vertex Room

17 feet

48	47	46	45	44	43	42	41
40	39	38	37	36	35	34	33
32	31	30	29	28	27	26	25
24	23	22	21	20	19	18	17
16	15	14	13	12	11	10	9
8	7 7A	6 6A	5 5A	4	3	2	1

24 feet

16 feet

Hot Lab

16 feet

37	36	35	40	41	42
31B 31	32	33	34	35	36
25B 25	26	27	28	29	30
19	20	21	22	23	24
13	14	15	16	17	18
7	8	9	10	11	12
9 feet			4	5	6
6 feet			1	2	3

22 feet