

Cardinal Health
Nuclear Pharmacy Services
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Dublin, OH 43017
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cardinalhealth.com



May 27, 2010

U.S. Nuclear Regulatory Commission
Region III – Division of Nuclear Materials Safety
2443 Warrenville Rd, Suite 210
Lisle, IL 60532-4352

Re: Amendment Request for Radioactive Materials License 34-29200-01MD, Cardinal Health Nuclear Pharmacy Services, Dublin, OH.

Licensing:

Cardinal Health, Nuclear & Pharmacy Services, hereafter Cardinal Health, requests the release of the facility located at 212 Ivanhoe Court, Griffith, Indiana 46319 for unrestricted use. Cardinal Health has removed all radioactive material and performed a decommissioning survey on the facility. Please see the attached decommission report.

If you have any questions regarding this request, please contact Dan Hill at 614.757.5074.

Sincerely,

A handwritten signature in black ink, appearing to read "WR", with a long horizontal stroke extending to the right.

Willie Regits, Ph D.
Corporate Radiation Safety Officer
Director, Health Physics
Nuclear Pharmacy Services

/dh

cc: Christie Holland, RSO, Location 016
Consolidated NRC License File (3)

Encl: Decommission Report

RECEIVED JUN 1 2010

FACILITY DECOMMISSIONING REPORT

Cardinal Health
Nuclear Pharmacy Services

212 South Ivanhoe Court
Griffith, Indiana 46319

Report by:

Quality & Regulatory
Cardinal Health
Nuclear Pharmacy Services

Facility and Operations

The nuclear pharmacy is licensed in multiple locations by the U.S. Nuclear Regulatory Commission. The former location resided at the street address listed below. The mailing address for the U.S. NRC license has not changed. Use of radioactive materials was previously conducted under the NRC license and the Indiana registration at the location referenced below.

Pharmacy Location: 212 South Ivanhoe Court
Griffith, Indiana 46319

U.S. NRC Radioactive Materials License: 34-29200-01MD, Expiration Date: August 31, 2011

Indiana Radioactive Materials Registration: R0065-45, Expiration Date: January 14, 2008

Sources of Radiation

The information presented below addresses the requirements presented in Title 10, Code of Federal Regulations, Part 30.36(2)(d) using related guidance in NUREG-1757.

1. Please see Attachment C for the *Certificate - Disposition of Radioactive Materials*.

The facility used radioactive materials for nuclear pharmacy operations and instrument calibrations or constancy checks. The facility located at 212 South Ivanhoe Court, Griffith, Indiana 46319 ceased using the materials on **February 22, 2010**. Sealed sources were transferred to an authorized location for this license: 2715 West Main Street, Highland, IN 46322 prior to conducting the decommissioning surveys. Radioactive waste was either decayed or transferred to a certified waste broker prior to the decommissioning surveys.

2. The table below lists all isotopes used at the facility over the span of the licensed activities, and includes the date of last use for each.

Isotope	Date Last Handled	Physical Form (S,G,L or Sealed)	Quantities (μ Ci, mCi or Ci)
Barium-133	12/31/2009	Sealed	80 μ Ci
Carbon-14	NA	NA	
Cesium-137	2/19/2010	Sealed	110 μ Ci
Chromium-51	NA	NA	
Cobalt-57	12/31/2009	Sealed	3 mCi
Flourine-18	NA	NA	
Gallium-67	2/18/2010	L	25 mCi
Indium-111	2/18/2010	L	5 mCi
Iodine-123	2/18/2010	S	5 mCi
Iodine-125	NA	NA	
Iodine-131	2/18/2010	L	2 Ci

Molybdenum-99	2/19/2010	S	20 Ci
Phosphorus-32	NA	NA	
Samarium-153	2/11/2010	L	10 mCi
Strontium-89	NA	NA	
Technetium-99m	2/19/2010	L	20 Ci
Thallium-201	2/19/2010	L	100 mCi
Xenon-133	2/19/2010	G in sealed vials	1 Ci
Yttrium-90	1/8/2010	L	40 mCi
Depleted Uranium	2/19/2010	S	150 kg

There have been no major radiological spills of any licensed material (e.g., greater than 100 mCi of Tc-99m or 1 mCi of I-131) requiring assistance in clean-up and monitoring from persons other than the user. [NA – not applicable or not used]

During the life of the license, no sealed sources have been determined to be leaking.

Surveys and Monitoring

Surveys were conducted in both the restricted and unrestricted areas. All surfaces were surveyed for contamination in the restricted areas. Wipe tests for removable contamination were taken over a 100 cm² area every square meter in the restricted areas. In the unrestricted area, wipes and contamination surveys were taken on a larger grid and in areas of most probability for finding contamination (e.g., door handles, walkways from the restricted areas, etc.). The locations are identified on the diagram in Attachment A.

Contamination surveys were taken with the instrument listed below. Wipes were taken dry, unless otherwise indicated, with absorbent paper. Each wipe was counted on the analytical detector listed below. Operating specifications, efficiencies, and minimum detectable activities are also provided below.

EQUIPMENT		
Surveys	Make and Model of Survey Meter	Ludlum 2350-1
	Serial Number	221034
	Last Calibration Date	6/15/2009
	Background	0.016 mR/hr (44-38) 162 cpm (44-89)
	Make and Model Number of Probe	Ludlum 44-38 Ludlum 44-89
	Efficiency of Survey Meter (use I-131 diagnostic cap with open face of probe)	N/A

Wipes	Make and Model Number	Ludlum 2200
	Serial Number	222289
	Window (should be open, this is usually 20 to 400 keV)	50-400 keV
	Efficiency of Well Counter (for I-131 or Ba-133 open window)	57.5%
	Date of Efficiency	5-05-2010
	Region of Interest (should be the same as for efficiency)	50-400 keV
	Count Time	1.0 minute
	Background	90 CPM
	MDA (must be <200 dpm)	77 DPM

Please see Attachment A for the impacted area map with wipe test locations indicated.

Please see Attachment B for the results of the wipe test survey of the impacted area.

A reference background was established for the portable survey meter in the non-impacted area, where there is similar construction to the materials encountered the impacted area. This was determined to be 16 μ R/hr for the facility.

Waste and RAM Disposition

A search for radioactive materials and radioactive waste was performed, resulting in none found. All materials were transferred to another authorized location for this license prior to the survey.

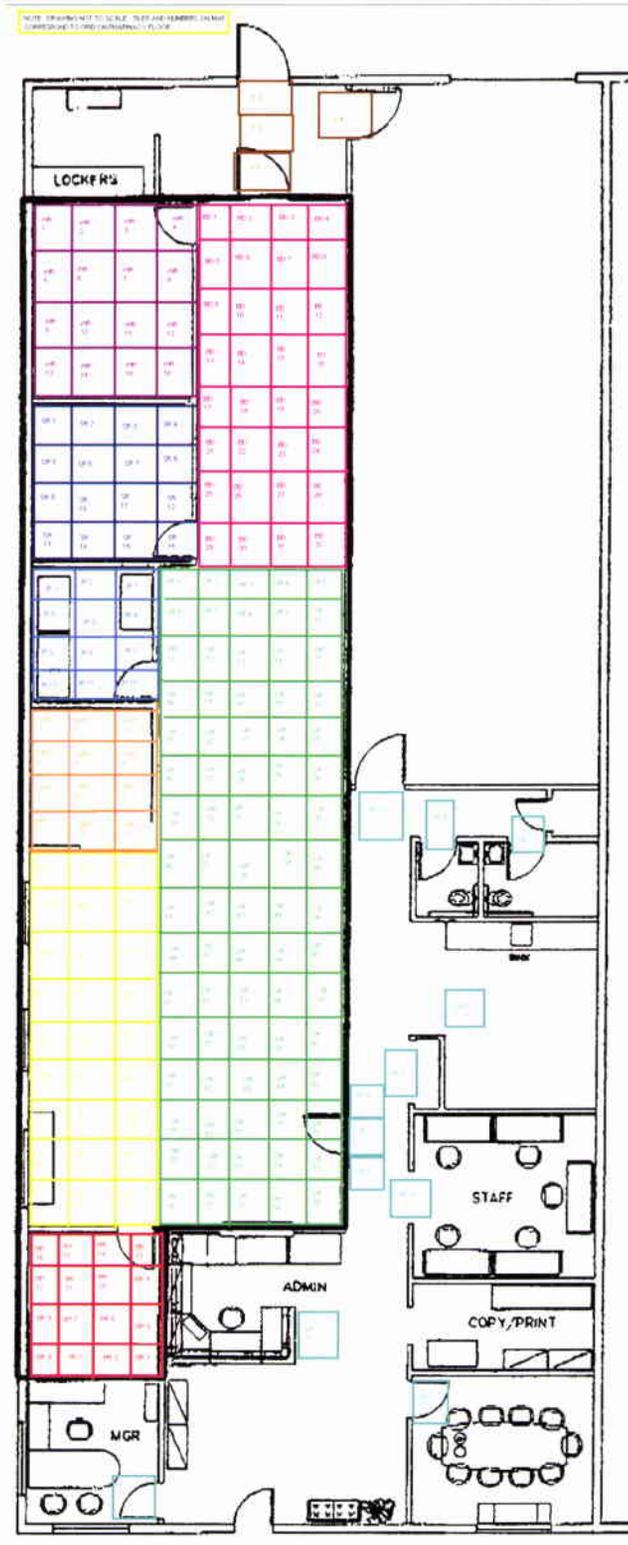
During the life of the license, no underground piping or sink/sewer piping was used for disposal of radioactive materials (*excluding excreta*).

Please see Attachment C for a copy the Certificate of Disposition of Radioactive Materials and Surveyor Certification.

Please see Attachment D for a copy of the log showing transfer of sealed sources to another authorized location for this license.

ATTACHMENT A

Survey Map



ATTACHMENT B

Wipe Test & Area Radiation Survey Results

Area Wipe Test Equipment	
ICS 10W SCA Serial Number:	222289
Efficiency Date:	05/05/10
Window:	50-400
Efficiency:	57.5% c/d for Ba-133
Count time (minutes):	1.0 minute
Background (cpm):	149
MDA (dpm):	99

			SURVEY DATE: 5/14/2010					
Area		Location surveyed	Area Survey 44-38	Contamination Survey 44-89	Wipe (gross)	Wipe (net)	Wipe (dpm)	Flags or Notes
Location (see Map)	Loc #	Floor/Wall	µR/hr	CPM	CPM	CPM	DPM / 100 cm ²	
Blood Room	BR 1	Floor	9.43	148	145	0	0	OK
Blood Room	BR 2	Floor	10.3	107	145	0	0	OK
Blood Room	BR 3	Floor	20.4	125	147	0	0	OK
Blood Room	BR 4	Floor	15.5	97	147	0	0	OK
Blood Room	BR 5	Floor	10.2	115	157	8	14	OK
Blood Room	BR 6	Floor	9.05	107	163	14	24	OK
Blood Room	BR 7	Floor	6.04	116	145	0	0	OK
Blood Room	BR 8	Floor	5.47	113	145	0	0	OK
Blood Room	BR 9	Floor	8.3	165	148	0	0	OK
Blood Room	BR 10	Floor	3.58	122	135	0	0	OK
Blood Room	BR 11	Floor	5.66	125	141	0	0	OK
Blood Room	BR 12	Floor	12.8	106	154	5	9	OK
Blood Room	BR 13	Floor	15.8	141	146	0	0	OK
Blood Room	BR 14	Floor	23.8	133	179	30	52	OK
Blood Room	BR 15	Floor	19.8	137	153	4	7	OK
Blood Room	BR 16	Floor	13.2	131	150	1	2	OK
Buffer Zone	BZ 1	Floor	10.2	108	161	12	21	OK
Buffer Zone	BZ 2	Floor	13.2	111	154	5	9	OK
Buffer Zone	BZ 3	Floor	9.99	129	142	0	0	OK
Buffer Zone	BZ 4	Floor	12.1	150	122	0	0	OK
Buffer Zone	BZ 5	Floor	9.24	134	137	0	0	OK

Buffer Zone	BZ 6	Floor	17.9	120	144	0	0	OK
Buffer Zone	BZ 7	Floor	14.9	116	157	8	14	OK
Buffer Zone	BZ 8	Floor	18.5	109	155	6	10	OK
Buffer Zone	BZ 9	Floor	18.5	119	163	14	24	OK
Buffer Zone	BZ 10	Floor	20.8	95	151	2	3	OK
Buffer Zone	BZ 11	Floor	15.5	127	155	6	10	OK
Buffer Zone	BZ 12	Floor	11.1	109	161	12	21	OK
Buffer Zone	BZ 13	Floor	10.9	161	143	0	0	OK
Buffer Zone	BZ 14	Floor	23.4	126	138	0	0	OK
Buffer Zone	BZ 15	Floor	13.2	114	173	24	42	OK
Buffer Zone	BZ 16	Floor	8.68	102	164	15	26	OK
Buffer Zone	BZ 17	Floor	9.99	125	168	19	33	OK
Buffer Zone	BZ 18	Floor	5.47	136	170	21	37	OK
Buffer Zone	BZ 19	Floor	6.22	121	169	20	35	OK
Buffer Zone	BZ 20	Floor	8.49	116	156	7	12	OK
Buffer Zone	BZ 21	Floor/ctr	5.28	115	176	27	47	OK
Buffer Zone	BZ 22	Floor	21.3	123	152	3	5	OK
Buffer Zone	BZ 23	Floor	11.9	128	154	5	9	OK
Buffer Zone	BZ 24	Floor/ctr	12.8	127	153	4	7	OK
Buffer Zone	BZ 25	Floor	9.81	114	158	9	16	OK
Buffer Zone	BZ 26	Floor	6.6	117	181	32	56	OK
Buffer Zone	BZ 27	Floor/ctr	11.9	121	164	15	26	OK
Gen. Room	GEN 1	Floor	12.5	106	106	0	0	OK
Gen. Room	GEN 2	Floor	15.1	132	102	0	0	OK
Gen. Room	GEN 3	Floor	19.8	96	113	0	0	OK
Gen. Room	GEN 4	Floor	11.3	99	107	0	0	OK
Gen. Room	GEN 5	Floor	16.6	106	94	0	0	OK
Gen. Room	GEN 6	Floor	7.92	109	98	0	0	OK
Gen. Room	GEN 7	Floor	23.9	135	91	0	0	OK
Gen. Room	GEN 8	Floor	14.1	96	105	0	0	OK
Gen. Room	GEN 9	Floor	6.22	132	104	0	0	OK
Gen. Room	GEN 10	Floor	4.15	90	99	0	0	OK
Gen. Room	GEN 11	Floor	9.05	123	112	0	0	OK
Gen. Room	GEN 12	Floor	4.34	115	113	0	0	OK
Iodine Room	IR 1	Floor/ctr	2.45	143	109	0	0	OK
Iodine Room	IR 2	Floor	16	120	104	0	0	OK
Iodine Room	IR 3	Floor/ctr	20.6	97	93	0	0	OK
Iodine Room	IR 4	Floor	15.8	150	96	0	0	OK
Iodine Room	IR 5	Floor	10.6	137	91	0	0	OK
Iodine Room	IR 6	Floor/ctr	16.9	124	107	0	0	OK
Iodine Room	IR 7	Floor	12.8	114	113	0	0	OK
Iodine Room	IR 8	Floor	9.81	114	97	0	0	OK
Iodine Room	IR 9	Floor/ctr	8.68	95	110	0	0	OK
Iodine Room	IR 10	Floor	5.85	90	103	0	0	OK
Iodine Room	IR 11	Floor	9.81	95	94	0	0	OK
Iodine Room	IR 12	Floor/ctr	10.9	147	85	0	0	OK
Storage Rm	SR 1	Floor	9.05	83	90	0	0	OK
Storage Rm	SR 2	Floor	6.04	115	89	0	0	OK
Storage Rm	SR 3	Floor	7.36	137	101	0	0	OK
Storage Rm	SR 4	Floor	13.9	142	95	0	0	OK

Storage Rm	SR 5	Floor	10.8	101	91	0	0	OK
Storage Rm	SR 6	Floor	11.3	125	97	0	0	OK
Storage Rm	SR 7	Floor	15.8	154	102	0	0	OK
Storage Rm	SR 8	Floor	9.43	126	106	0	0	OK
Storage Rm	SR 9	Floor	12.8	137	107	0	0	OK
Storage Rm	SR 10	Floor	8.49	122	101	0	0	OK
Storage Rm	SR 11	Floor	14.1	134	96	0	0	OK
Storage Rm	SR 12	Floor	22.1	117	96	0	0	OK
Storage Rm	SR 13	Floor	13.8	114	101	0	0	OK
Storage Rm	SR14	Floor	16.8	125	107	0	0	OK
Storage Rm	SR15	Floor	14.3	120	96	0	0	OK
Storage Rm	SR 16	Floor	11.7	133	93	0	0	OK
Waste Room	WR 1	Floor	7.73	153	84	0	0	OK
Waste Room	WR 2	Floor	5.28	137	120	0	0	OK
Waste Room	WR 3	Floor	11.6	121	102	0	0	OK
Waste Room	WR 4	Floor	19.8	139	104	0	0	OK
Waste Room	WR 5	Floor	23.4	114	98	0	0	OK
Waste Room	WR 6	Floor	20	100	93	0	0	OK
Waste Room	WR 7	Floor	10.7	135	95	0	0	OK
Waste Room	WR 8	Floor	18.4	124	99	0	0	OK
Waste Room	WR 9	Floor	13.8	107	103	0	0	OK
Waste Room	WR 10	Floor	14.1	108	110	0	0	OK
Waste Room	WR 11	Floor	11.3	120	97	0	0	OK
Waste Room	WR 12	Floor	6.22	111	102	0	0	OK
Waste Room	WR 13	Floor	7.92	112	98	0	0	OK
Waste Room	WR 14	Floor	20.2	94	109	0	0	OK
Waste Room	WR 15	Floor	19.2	112	111	0	0	OK
Waste Room	WR 16	Floor	17.4	131	94	0	0	OK
Break Down	BD 1	Floor	18.3	118	90	0	0	OK
Break Down	BD 2	Floor	18.5	131	122	0	0	OK
Break Down	BD 3	Floor	13.9	128	131	0	0	OK
Break Down	BD 4	Floor	21.5	148	126	0	0	OK
Break Down	BD 5	Floor	14.3	116	124	0	0	OK
Break Down	BD 6	Floor	11.5	159	107	0	0	OK
Break Down	BD 7	Floor	13.6	132	93	0	0	OK
Break Down	BD 8	Floor	17.5	131	97	0	0	OK
Break Down	BD 9	Floor	15.7	145	95	0	0	OK
Break Down	BD 10	Floor	18.1	146	106	0	0	OK
Break Down	BD 11	Floor	12.1	144	112	0	0	OK
Break Down	BD 12	Floor	16.9	158	117	0	0	OK
Break Down	BD 13	Floor	13.2	178	116	0	0	OK
Break Down	BD 14	Floor	22.4	167	91	0	0	OK
Break Down	BD 15	Floor	15.8	157	94	0	0	OK
Break Down	BD 16	Floor	10.2	106	95	0	0	OK
Break Down	BD 17	Floor	8.3	101	108	0	0	OK
Break Down	BD 18	Floor	10.4	104	105	0	0	OK
Break Down	BD 19	Floor	6.98	119	101	0	0	OK
Break Down	BD 20	Floor	3.77	109	93	0	0	OK
Break Down	BD 21	Floor	5.85	140	96	0	0	OK
Break Down	BD 22	Floor	2.64	142	95	0	0	OK

Break Down	BD 23	Floor	1.89	154	121	0	0	OK
Break Down	BD 24	Floor	0.943	136	119	0	0	OK
Break Down	BD 25	Floor	7.17	168	111	0	0	OK
Break Down	BD 26	Floor	10.8	146	96	0	0	OK
Break Down	BD 27	Floor	8.68	139	96	0	0	OK
Break Down	BD 28	Floor	13.9	157	105	0	0	OK
Break Down	BD 29	Floor	10.6	157	107	0	0	OK
Break Down	BD 30	Floor	8.66	135	96	0	0	OK
Break Down	BD 31	Floor	10.2	143	114	0	0	OK
Break Down	BD 32	Floor	10.4	161	116	0	0	OK
Restricted	GR 1	Floor	6.6	132	102	0	0	OK
Restricted	GR 2	Floor	14.9	130	97	0	0	OK
Restricted	GR 3	Floor	8.49	168	106	0	0	OK
Restricted	GR 4	Floor	10.2	97	93	0	0	OK
Restricted	GR 5	Floor	8.3	116	113	0	0	OK
Restricted	GR 6	Floor	9.05	136	115	0	0	OK
Restricted	GR 7	Floor	4.9	99	115	0	0	OK
Restricted	GR 8	Floor	9.43	127	122	0	0	OK
Restricted	GR 9	Floor	12.1	92	121	0	0	OK
Restricted	GR 10	Floor	15.5	137	133	0	0	OK
Restricted	GR 11	Floor	13.9	134	106	0	0	OK
Restricted	GR 12	Floor	9.2	155	114	0	0	OK
Restricted	GR 13	Floor	8.11	142	123	0	0	OK
Restricted	GR 14	Floor	7.17	72	127	0	0	OK
Restricted	GR 15	Floor	10	119	133	0	0	OK
Restricted	GR 16	Floor	18.7	115	136	0	0	OK
Restricted	GR 17	Floor	18.7	113	128	0	0	OK
Restricted	GR 18	Floor	13.2	152	134	0	0	OK
Restricted	GR 19	Floor	12.5	155	127	0	0	OK
Restricted	GR 20	Floor	8.87	116	123	0	0	OK
Restricted	GR 21	Floor	15.5	125	129	0	0	OK
Restricted	GR 22	Floor	13.4	116	136	0	0	OK
Restricted	GR 23	Floor	20.7	114	135	0	0	OK
Restricted	GR 24	Floor	17	115	141	0	0	OK
Restricted	GR 25	Floor	8.11	121	148	0	0	OK
Restricted	GR 26	Floor	21.3	114	136	0	0	OK
Restricted	GR 27	Floor	19.2	156	145	0	0	OK
Restricted	GR 28	Floor	14.1	116	153	4	7	OK
Restricted	GR 29	Floor	15.1	124	156	7	12	OK
Restricted	GR 30	Floor	9.62	124	150	1	2	OK
Restricted	GR 31	Floor	14.1	143	133	0	0	OK
Restricted	GR 32	Floor	12.1	116	139	0	0	OK
Restricted	GR 33	Floor	17.7	131	146	0	0	OK
Restricted	GR 34	Floor	7.92	149	142	0	0	OK
Restricted	GR 35	Floor	13.6	162	147	0	0	OK
Restricted	GR 36	Floor	9.43	115	152	3	5	OK
Restricted	GR 37	Floor	3.4	121	155	6	10	OK
Restricted	GR 38	Floor	7.92	169	153	4	7	OK
Restricted	GR 39	Floor	9.05	164	161	12	21	OK
Restricted	GR 40	Floor	20.2	129	163	14	24	OK

Restricted	GR 41	Floor	22.4	122	170	21	37	OK
Restricted	GR 42	Floor	22.6	129	157	8	14	OK
Restricted	GR 43	Floor	8.11	138	152	3	5	OK
Restricted	GR 44	Floor	8.68	131	153	4	7	OK
Restricted	GR 45	Floor	6.79	136	149	0	0	OK
Restricted	GR 46	Floor	6.6	125	143	0	0	OK
Restricted	GR 47	Floor	7.36	131	147	0	0	OK
Restricted	GR 48	Floor	8.11	113	146	0	0	OK
Restricted	GR 49	Floor	9.24	116	108	0	0	OK
Restricted	GR 50	Floor	8.49	170	111	0	0	OK
Restricted	GR 51	Floor	9.05	202	117	0	0	OK
Restricted	GR 52	Floor	6.61	173	117	0	0	OK
Restricted	GR 53	Floor	15.1	127	123	0	0	OK
Restricted	GR 54	Floor	13.1	137	125	0	0	OK
Restricted	GR 55	Floor	9.05	131	164	15	26	OK
Restricted	GR 56	Floor	4.9	144	161	12	21	OK
Restricted	GR 57	Floor	10.9	123	172	23	40	OK
Restricted	GR 58	Floor	8.68	104	166	17	30	OK
Restricted	GR 59	Floor	8.48	142	155	6	10	OK
Restricted	GR 60	Floor	8.68	132	103	0	0	OK
Restricted	GR 61	Floor	8.3	164	117	0	0	OK
Restricted	GR 62	Floor	4.9	139	126	0	0	OK
Restricted	GR 63	Floor	7.92	139	164	15	26	OK
Restricted	GR 64	Floor	4.34	165	156	7	12	OK
Restricted	GR 65	Floor	13.4	157	150	1	2	OK
Restricted	GR 66	Floor	15.7	156	151	2	3	OK
Restricted	GR 67	Floor	10.8	152	144	0	0	OK
Restricted	GR 68	Floor	15.7	132	148	0	0	OK
Restricted	GR 69	Floor	13.9	106	153	4	7	OK
Restricted	GR 70	Floor	11.9	146	157	8	14	OK
Restricted	GR 71	Floor	7.92	130	156	7	12	OK
Restricted	GR 72	Floor	9.81	160	166	17	30	OK
Restricted	GR 73	Floor	8.3	116	160	11	19	OK
Restricted	GR 74	Floor	17.3	124	164	15	26	OK
Restricted	GR 75	Floor	7.73	146	151	2	3	OK
Restricted	GR 76	Floor	4.15	113	155	6	10	OK
Restricted	GR 77	Floor	8.68	101	156	7	12	OK
Restricted	GR 78	Floor	9.81	118	163	14	24	OK
Restricted	GR 79	Floor	7.55	138	165	16	28	OK
Restricted	GR 80	Floor	6.98	104	168	19	33	OK
Background			15.9	162				

^
RESTRICTED
AREAS

Area Wipe Test Equipment

ICS 10W SCA Serial Number:	222289
Efficiency Date:	05/05/10
Window:	50-400
Efficiency:	57.5% c/d for Ba-133
Count time (minutes):	1.0 minute
Background (cpm):	90
MDA (dpm):	77

Area		Location surveyed	Area Survey 44-38	Contamination Survey 44-89	Wipe (gross)	Wipe (net)	Wipe (dpm)	Flags or Notes
Location (see Map)	Loc #	Floor/Wall	µR/hr	CPM	CPM	CPM	DPM / 100 cm ²	
Vestibule	V1	Floor	19.2	120	114	24	42	OK
Vestibule	V2	Floor	9.81	114	97	7	12	OK
Vestibule	V3	Floor	8.87	114	106	16	28	OK
Vestibule	V4	Floor	5.47	110	115	25	43	OK
Unrestricted	UR 1	Floor	9.43	110	126	36	63	OK
Unrestricted	UR 2	Floor	14.5	100	85	0	0	OK
Unrestricted	UR 3	Floor	15.5	100	88	0	0	OK
Unrestricted	UR 4	Floor	6.79	104	92	2	3	OK
Unrestricted	UR 5	Floor	23.6	104	110	20	35	OK
Unrestricted	UR 6	Floor	19.1	107	113	23	40	OK
Unrestricted	UR 7	Floor	21.1	98	96	6	10	OK
Unrestricted	UR 8	Floor	7.73	98	92	2	3	OK
Unrestricted	UR 9	Floor	7.92	98	97	7	12	OK
Unrestricted	UR 10	Floor	17.0	97	95	5	9	OK
Unrestricted	UR 11	Floor	11.1	106	102	12	21	OK
Unrestricted	UR 12	Floor	14.5	106	108	18	31	OK
Background			15.9	162				

^
**UNRESTRICTED
AREAS**

ATTACHMENT C

Certificate of Disposition of Materials

Surveyor Certification

NRC FORM 314
(7-2001)
10 CFR 30.36(j)(1); 40.42(j)(1);
70.38(j)(1); and 72.54(j)(1)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0028

EXPIRES: 07/31/2004

CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS
Cardinal Health Nuclear Pharmacy Services
212 S. Ivanhoe Ct.
Griffith, IN 46319

LICENSE NUMBER: 34-29200-01MD
DOCKET NUMBER: 030-36973
LICENSE EXPIRATION DATE: 08/31/2011

A. LICENSE STATUS (Check the appropriate box)
 This license has expired. This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL
(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)
The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:
 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
 a. Transfer of radioactive materials to the licensee listed below:
 b. Disposal of radioactive materials:
 1. Directly by the licensee:
 2. By licensed disposal site:
 3. By waste contractor:
 c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED
 1. A radiation survey was conducted by the licensee. The survey confirms:
 a. the absence of licensed radioactive materials
 b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
 2. A copy of the radiation survey results:
 a. is attached; or b. is not attached (Provide explanation); or c. was forwarded to NRC on: _____ Date _____
 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
 a. The results of the latest leak test are attached; and/or b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:
NAME: Christie Holland TITLE: RSO TELEPHONE (Include Area Code): (219) 924-3795 E-MAIL ADDRESS: christie.holland@cardir
Mail all future correspondence regarding this license to:
2715 W. Main St., Ste. A Highland, IN 46322

C. CERTIFYING OFFICIAL
I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT
PRINTED NAME AND TITLE: Christie Holland SIGNATURE: *Christie Holland* DATE: 5.14.10

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

Surveyor Certification

Surveyor: Christie Holland RSO
Authorized User, License No. 34-292000-01MD
Cardinal Health
Nuclear Pharmacy Services

Survey Location: 212 S. Ivanhoe Ct.
Griffith, IN 46319

Survey Date: 5.14.2010

Certification Statements:

1. All non-exempt radioactive material and waste was removed from the facility prior to performing the decommission surveys.
2. A gross search for radioactive material was performed and no material was present.
3. The background radiation levels measured at several locations in the non-impacted area of the facility measured 0.03 mR/hr, therefore the readings listed as "Survey gross mR/h" in the closeout survey data form are background at all locations measured in the impacted area of the facility.
4. The wipe test results on the Closeout Survey data sheet are shown in dpm per 100 cm². All wipe measurement results were less than the MDA and less than 200 dpm per 100 cm².

I certify the above data and statements to be true.

Print: Christie Holland Sign: Christie Holland Date: 5.14.10

ATTACHMENT D

SEALED SOURCE TRANSFER LOG

DATE OF TRANSFER: 2.19.10

TRANSFER FROM: Cardinal Health NPS Location #1016
212 S. Ivanhoe Ct.
Griffith, IN 46319
License # 34-29200-01 MD

TRANSFER TO: Cardinal Health NPS Location # 1016
3715 W. Main St. Ste. A
Highland, IN 46322
License # 34-29200-01 MD

Nuclide	Type (b/g)	Serial Number	Assay Activity	Assay Date	Current Activity (μCi)	Leak Test Date	Leak Test Results* (Pass/Fail)
Ba-133	Cartridge	445-63-28	.52 uCi	12.15.1993	.179	2.18.2010	pass
Ba-133	Eval	3152/67	392.3 uCi	2.11.1985	.79876	2.18.2010	pass
Ba-133	Rod	6	.11 uCi	11.25.1987	.025	2.18.2010	pass
Ba-133	Rod	780-39-41	5.13 uCi	8.1.2003	3.332	2.18.2010	pass
Co-57	Eval	1296-33-3	11.04 mCi	8.1.2008	2622	2.18.2010	pass
Co-57	Rod	741-2-10	.11 uCi	11.1.2000	.000019	2.18.2010	pass
Co-57	Rod	1125-10-1	.99 uCi	7.1.2005	.013	2.18.2010	pass
Cs-137	Eval	3560880A	216 uCi	8.27.1980	109.513	2.18.2010	pass
Cs-137	Rod	4	.10 uCi	12.8.1981	.052	2.18.2010	pass

*Pass=Removable contamination less than 0.005 uCi.

Christie Holland
RSO Signature

Christie Holland
Print Name

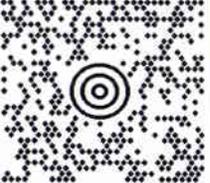
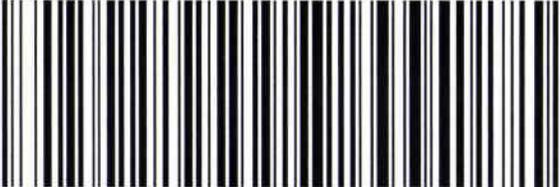
UPS CampusShip: View/Print Label

1. **Print the label(s):** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
3. **GETTING YOUR SHIPMENT TO UPS**
Customers without a Daily Pickup
 - Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
 - Hand the package to any UPS driver in your area.
 - Take your package to any location of The UPS Store[®], UPS Drop Box, UPS Customer Center, UPS Alliances (Office Depot[®] or Staples[®]) or Authorized Shipping Outlet near you. Items sent via UPS Return ServicesSM (including via Ground) are also accepted at Drop Boxes.
 - To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

Customers with a Daily Pickup

- Your driver will pickup your shipment(s) as usual.

FOLD HERE

JANE STEPHENS 614-757-5000 CARDINAL HEALTH 7000 CARDINAL PLACE DUBLIN OH 43017	0.0 LBS LTR	1 OF 1
SHIP TO: US NUCLEAR REGULATORY COMMISSION (630) 829-9500 2443 WARRENVILLE RD STE. 210 SAFETY REGION III-DIV OF NUCLEAR MATERIALS LISLE IL 60532-4352		
	IL 603 9-03 	
UPS 2ND DAY AIR		2
TRACKING #: 1Z 05R 4W8 02 9494 8025		
		
BILLING: P/P		
Cost Center Number: 4210		 TM
GS 12.0.26 WXP1E60 03 0A 04/2010		