

**FORM HDP-PR-HP-311-1  
RADIOLOGICAL SURVEY REPORT**

Purpose of Survey: B110 HVAC System (BSA 01-05)							Log Number	HDP-PF-061815-029				
Technician(s) Print Name/Sign/Date <i>[Signature]</i> Matt Cushman 7/15/15						Reviewed By (Print Name/Sign/Date): <i>[Signature]</i> ELLEN C. Jakub 7/15/15						
Instrument	Serial Number	Calibration Due	Probe	Probe Area (cm <sup>2</sup> )	Alpha Bkgd (cpm)	Alpha Efficiency	Alpha MDA (DPM)	Beta Bkgd (cpm)	Beta Efficiency	Beta MDA (DPM)	Date:	06/18/15
2929 "I"	115578	10/30/15	43-10-1	N/A	0.6	33.13	20	49	24.86	143	Time:	1000
2360 "F"	275001	10/31/15	43-93	100	0.3	20.34	27	188	18.86	354	Smear Area:	100 cm <sup>2</sup>
2360 "H"	268477	10/27/15	43-93	100	1	19.62	39	209	16.84	417	RWP #:	N/A
N/A											Batch #:	N/A

Remarks: Local areas scanned and statics collected with 43-93 "H" on the interior surfaces (measurements 01 -10) on 6/18/15. Local areas scanned and statics collected with 43-93 "F" on the exterior AC unit (measurement 11) on 6/23/15.

Sample No.	Description	Removable Alpha		Removable Beta		Total Alpha		Total Beta		Dose Rate		Limit Exceeded
		Net cpm	DPM/100cm <sup>2</sup>	Net cpm	DPM/100cm <sup>2</sup>	Gross cpm	DPM/100cm <sup>2</sup>	Gross cpm	DPM/100cm <sup>2</sup>	Contact mR/hr	Gen. Area μR/hr	
1	B01-05-01-S-V-S-00	0	1	-5	-20	10	46	310	600	bkgd	bkgd	N
2	B01-05-02-S-V-S-00	-1	-2	-7	-28	6	25	285	451	bkgd	bkgd	N
3	B01-05-03-S-V-S-00	0	1	-5	-20	9	41	221	71	bkgd	bkgd	N
4	B01-05-04-S-V-S-00	-1	-2	-5	-20	17	82	332	730	bkgd	bkgd	N
5	B01-05-05-S-V-S-00	0	1	0	0	5	20	269	356	bkgd	bkgd	N
6	B01-05-06-S-V-S-00	1	4	-13	-52	5	20	237	166	bkgd	bkgd	N
7	B01-05-07-S-V-S-00	-1	-2	-12	-48	2	5	293	499	bkgd	bkgd	N
8	B01-05-08-S-V-S-00	0	1	-6	-24	4	15	229	119	bkgd	bkgd	N
9	B01-05-09-S-V-S-00	0	1	-7	-28	12	56	378	1004	bkgd	bkgd	N
10	B01-05-10-S-V-S-00	0	1	-2	-8	8	36	374	980	bkgd	bkgd	N
11	B01-05-11-S-V-S-00	1	4	-6	-24	10	48	224	191	bkgd	bkgd	N
					A							
				N								

Quality Record

**FORM HDP-PR-HP-311-1  
RADIOLOGICAL SURVEY REPORT (Map)**

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Instrument	Serial Number	Calibration Due	Probe	Probe Area (cm <sup>2</sup> )	Alpha Bkgd (cpm)	Alpha Efficiency	Alpha MDA (DPM)	Beta Bkgd (cpm)	Beta Efficiency	Beta MDA (DPM)	Date:	6/18/15
2929 "F"	115578	10/30/15	43-10-1	N/A	0.6	33.13	20	49	24.86	143	Time:	1000
2360 "F"	275001	10/31/15	43-93	100	0.3	20.34	27	188	18.86	354	Smear Area:	100 cm <sup>2</sup>
2360 "H"	268477	10/27/15	43-93	100	1	19.62	39	209	16.84	417	RWP #:	N/A
N/A											Batch #:	N/A

Remarks: Samples 01 -09 were taken in ducts. Samples 10 and 11 taken in filter bank housing. Sample 11 accessed from roof. Locations around sample points scanned to find local maximum. Scans indicate <400 gross cpm.

Building 110 HVAC (BSA 01-05) FSS Sample Locations

