PERSONNEL AIR MONITORING DATA CALCULATION LOG (Rev 7)

Counting Instrument:	Ludlum 2929	**Detector:**	Ludlum 43-10-1	**Cal. Date:**	12/16/2017
Serial #:	200051	**Serial #:**	PR 215948	**Cal. Due Date OK?**	OK

Radiation Type	Counting Efficiency (fraction)	Source Nuclide	Source Number	Original Source Activity (DPM)	Source Creation Date	$T_{1/2}$ (yr)	Source Decayed Activity	Sample Count time (min)	Background Count time (min)		**Limiting Alpha Isotope of Concern**			**Limiting Beta Isotope of Concern**	
Alpha	0.3678	Th-230	5648-06	15,900	9/24/2012	7.54E+04	15899	60	10		Isotope	10CFR20 Occup. DAC		Isotope	10CFR20 Occup. DAC
Beta	0.2011	Tc-99	5634-05	9,860	2/25/2013	2.11E+05	9860	60	10		U-235	2.00E-11		U-235	2.00E-11

Person Monitored	**Air Sample Start Time Period Date/Time**	**Air Sample End Time Period Date/Time**	**Count Date**	**Total BZ Run Time (min)**	**Flow rate (lpm)**	**Sample Gross Alpha (Counts)**	**Sample Gross Beta (Counts)**	**Alpha Bkg (cpm)**	**Beta Bkg (cpm)**	**Filter Efficiency (fraction)**	**Sample Alpha Activity (dpm)**	**Sample Beta Activity (dpm)**	**Alpha Count Concen. (uCi/cc)**	**Beta Count Concen. (uCi/cc)**	**Alpha DAC-hours**	**Beta DAC-hours**	**Alpha MDA (uCi/cc)**	**Beta MDA (uCi/cc)**
General area AIG-1	3/1/17 7:45	3/2/17 15:00	04/14/17	932	2.5	142	2735	0.4	40.2	1.00	5	27	1.03E-12	5.18E-12	0.8	4.0	3.97E-13	6.89E-12
General area AIG-2	3/20/17 8:00	3/20/17 17:25	04/14/17	565	2.5	27	2285	0.4	40.2	1.00	0	-11	4.34E-14	-3.36E-12	0.0	-1.6	6.55E-13	1.14E-11
General area AIG-3	4/10/17 7:30	4/14/17 14:45	04/20/17	2175	2.5	18	2461	0.3	37.1	1.00	0	19	0.00E+00	1.61E-12	0.0	2.9	1.49E-13	2.84E-12
General area AIG-4	4/17/17 7:30	4/21/17 14:45	04/24/17	2175	2.5	19	2482	0.2	39.5	1.00	0	9	2.63E-14	7.69E-13	0.0	1.4	1.23E-13	2.93E-12
General area AIG-5	4/24/17 7:30	4/28/17 14:45	05/03/17	2175	2.5	15	2516	0	42.7	1.00	1	-4	5.63E-14	-3.16E-13	0.1	-0.6	1.02E-14	3.04E-12
General area AIG-6	5/1/17 7:30	5/5/17 14:45	05/09/17	2175	2.5	15	2482	0.20	38.50	1.00	0	14	1.13E-14	1.18E-12	0.0	2.1	1.23E-13	2.89E-12
General area AIG-7	5/8/17 7:30	5/12/17 14:45	05/19/17	2175	2.5	17	2451	0.20	38.50	1.00	0	12	1.88E-14	9.68E-13	0.0	1.8	1.23E-13	2.89E-12
General area AIG-8	5/15/17 7:30	5/19/17 14:45	05/30/17	2175	2.5	19	2467	0.30	37.50	1.00	0	18	3.75E-15	1.49E-12	0.0	2.7	1.49E-13	2.85E-12
General area AIG-9	5/22/17 7:30	5/27/17 14:45	05/30/17	2175	2.5	18	2571	0.30	37.50	1.00	0	27	0.00E+00	2.20E-12	0.0	4.0	1.49E-13	2.85E-12
General area AIG-10	5/30/17 7:30	5/31/17 14:45	06/05/17	917	2.5	21	2493	0.30	38.00	1.00	0	18	2.67E-14	3.47E-12	0.0	2.7	3.53E-13	6.81E-12