



QSA Global, Inc.

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Source Certificate

Radionuclide: Ir192
 ISO/ANSI Classification: 97E64515
 IAEA Special Form Reference Number: USA/0335/S-96
 Measured Equivalent Activity on Oct-16-2014
148.2 Ci 5.5 TBq

Holder/Capsule # 11980G
 Source Model: A424-9
 Product Code: ICUCF140
 Sales Order 282989 **ENGINEERING & INSPECTIONS**

Source Physical Size:		
	(mm)	(in)
Diameter	2.700	0.106
Length	3.600	0.142
Diagonal	4.500	0.177

Quality Control Tests		Oct-16-2014
Wipe Test A:	<0.00045 uCi	
Vacuum Bubble Test:	Passed	
Tensile Test:	Passed	
Wipe Test B:	<0.00045 uCi	

Decay Data:

Technician: [Signature]

Activity in Curies						
Date	Date +1	Date +2	Date +3	Date +4	Date +5	Date +6
148.2	146.8	145.4	144.1	142.7	141.4	140.1
138.8	137.5	136.2	134.9	133.7	132.4	131.2
129.9	128.7	127.5	126.3	125.1	124.0	122.8
121.7	120.5	119.4	118.3	117.2	116.1	115.0
113.9	112.9	111.8	110.8	109.7	108.7	107.7
106.7	105.7	104.7	103.7	102.7	101.8	100.8
99.9	99.0	98.0	97.1	96.2	95.3	94.4
93.5	92.7	91.8	90.9	90.1	89.2	88.4
87.6	86.8	86.0	85.2	84.4	83.6	82.8
82.0	81.2	80.5	79.7	79.0	78.2	77.5
76.8	76.1	75.4	74.7	74.0	73.3	72.6
71.9	71.2	70.6	69.9	69.3	68.6	68.0
67.3	66.7	66.1	65.5	64.8	64.2	63.6
63.0	62.5	61.9	61.3	60.7	60.2	59.6
59.0	58.5	57.9	57.4	56.9	56.3	55.8
55.3	54.8	54.2	53.7	53.2	52.7	52.2
51.8	51.3	50.8	50.3	49.9	49.4	48.9
48.5	48.0	47.6	47.1	46.7	46.2	45.8
45.4	45.0	44.5	44.1	43.7	43.3	42.9
42.5	42.1	41.7	41.3	40.9	40.5	40.2
39.8	39.4	39.1	38.7	38.3	38.0	37.6
37.3	36.9	36.6	36.2	35.9	35.6	35.2
34.9	34.6	34.2	33.9	33.6	33.3	33.0
32.7	32.4	32.1	31.8	31.5	31.2	30.9
30.6	30.3	30.0	29.7	29.5	29.2	28.9
28.6	28.4	28.1	27.8	27.6	27.3	27.1
26.8	26.6	26.3	26.1	25.8	25.6	25.4
25.1	24.9	24.6	24.4	24.2	24.0	23.7
23.5	23.3	23.1	22.9	22.6	22.4	22.2
22.0	21.8	21.6	21.4	21.2	21.0	20.8
20.6	20.4	20.2	20.0	19.9	19.7	19.5
19.3	19.1	18.9	18.8	18.6	18.4	18.2
18.1	17.9	17.7	17.6	17.4	17.2	17.1
16.9	16.8	16.6	16.5	16.3	16.2	16.0
15.9	15.7	15.6	15.4	15.3	15.1	15.0
14.8	14.7	14.6	14.4	14.3	14.2	14.0
13.9	13.8	13.6	13.5	13.4	13.3	13.1
13.0	12.9	12.8	12.7	12.5	12.4	12.3
12.2	12.1	12.0	11.8	11.7	11.6	11.5
11.4	11.3	11.2	11.1	11.0	10.9	10.8
10.7	10.6	10.5	10.4	10.3	10.2	10.1
10.0	9.9	9.8	9.7	9.6	9.5	9.5
9.4	9.3	9.2	9.1	9.0	8.9	8.9
8.8	8.7	8.6	8.5	8.4	8.4	8.3
8.2	8.1	8.1	8.0	7.9	7.8	7.8
7.7	7.6	7.5	7.5	7.4	7.3	7.3
7.2	7.1	7.1	7.0	6.9	6.9	6.8
6.7	6.7	6.6	6.6	6.5	6.4	6.4
6.3	6.3	6.2	6.1	6.1	6.0	6.0
5.9	5.9	5.8	5.7	5.7	5.6	5.6
5.5	5.5	5.4	5.4	5.3	5.3	5.2
5.2	5.1	5.1	5.0	5.0	4.9	4.9

Activity in Tera-Becquerels						
Date	Date +1	Date +2	Date +3	Date +4	Date +5	Date +6
Oct-16-14	5.48	5.43	5.38	5.33	5.28	5.23
Oct-23-14	5.13	5.08	5.03	4.99	4.94	4.89
Oct-30-14	4.80	4.76	4.71	4.67	4.63	4.58
Nov-06-14	4.50	4.45	4.41	4.37	4.33	4.29
Nov-13-14	4.21	4.17	4.13	4.09	4.05	4.02
Nov-20-14	3.94	3.91	3.87	3.83	3.80	3.76
Nov-27-14	3.69	3.66	3.62	3.59	3.55	3.52
Dec-04-14	3.46	3.42	3.39	3.36	3.33	3.30
Dec-11-14	3.24	3.21	3.18	3.15	3.12	3.09
Dec-18-14	3.03	3.00	2.97	2.95	2.92	2.89
Dec-25-14	2.84	2.81	2.78	2.76	2.73	2.71
Jan-01-15	2.66	2.63	2.61	2.58	2.56	2.53
Jan-08-15	2.49	2.46	2.44	2.42	2.39	2.37
Jan-15-15	2.33	2.31	2.28	2.26	2.24	2.22
Jan-22-15	2.18	2.16	2.14	2.12	2.10	2.08
Jan-29-15	2.04	2.02	2.00	1.98	1.96	1.93
Feb-05-15	1.91	1.89	1.87	1.86	1.84	1.82
Feb-12-15	1.79	1.77	1.75	1.74	1.72	1.71
Feb-19-15	1.67	1.66	1.64	1.63	1.61	1.60
Feb-26-15	1.57	1.55	1.54	1.52	1.51	1.48
Mar-05-15	1.47	1.45	1.44	1.43	1.41	1.39
Mar-12-15	1.37	1.36	1.35	1.34	1.32	1.30
Mar-19-15	1.29	1.27	1.26	1.25	1.24	1.22
Mar-26-15	1.20	1.19	1.18	1.17	1.16	1.14
Apr-02-15	1.13	1.12	1.11	1.10	1.09	1.07
Apr-09-15	1.05	1.04	1.04	1.03	1.02	1.01
Apr-16-15	0.99	0.98	0.97	0.96	0.95	0.94
Apr-23-15	0.92	0.92	0.91	0.90	0.89	0.88
Apr-30-15	0.87	0.86	0.85	0.84	0.83	0.82
May-07-15	0.81	0.80	0.79	0.79	0.78	0.77
May-14-15	0.76	0.75	0.74	0.74	0.73	0.72
May-21-15	0.71	0.70	0.70	0.69	0.68	0.67
May-28-15	0.66	0.66	0.65	0.65	0.64	0.63
Jun-04-15	0.62	0.62	0.61	0.60	0.60	0.59
Jun-11-15	0.58	0.58	0.57	0.57	0.56	0.55
Jun-18-15	0.54	0.54	0.53	0.53	0.52	0.51
Jun-25-15	0.51	0.50	0.50	0.49	0.49	0.48
Jul-02-15	0.48	0.47	0.47	0.46	0.46	0.45
Jul-09-15	0.45	0.44	0.44	0.43	0.43	0.42
Jul-16-15	0.42	0.41	0.41	0.41	0.40	0.39
Jul-23-15	0.39	0.39	0.38	0.38	0.38	0.37
Jul-30-15	0.37	0.36	0.36	0.35	0.35	0.34
Aug-06-15	0.34	0.34	0.34	0.33	0.33	0.32
Aug-13-15	0.32	0.32	0.31	0.31	0.31	0.30
Aug-20-15	0.30	0.30	0.29	0.29	0.29	0.28
Aug-27-15	0.28	0.28	0.27	0.27	0.27	0.26
Sep-03-15	0.26	0.26	0.26	0.25	0.25	0.25
Sep-10-15	0.24	0.24	0.24	0.24	0.24	0.23
Sep-17-15	0.23	0.23	0.22	0.22	0.22	0.22
Sep-24-15	0.21	0.21	0.21	0.21	0.21	0.20
Oct-01-15	0.20	0.20	0.20	0.19	0.19	0.19
Oct-08-15	0.19	0.18	0.18	0.18	0.18	0.18