



## Rocky Mountain Instrument Co.

106 LASER DRIVE, BUILDING 1  
LAFAYETTE, COLORADO 80026  
Phone 303-664-5000 Fax 303-664-5001

40-38375

23 January 2018

Attn: Document Control Desk/Exempt Distribution  
Director, Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Re: Annual Report pursuant to 10 CFR 40.53, License Number: 05-35173-01E

To Whom It May Concern:

Rocky Mountain Instrument Co hereby submits its periodic report required by License number 05-35173-01E.

Rocky Mountain Instrument Co has its only facility in the Agreement State of Colorado. The Colorado license is CO 975-01 issued pursuant to C.R.S. Title 25, Article 11. Under the Agreement State RMI is licensed to process and use  $^{232}\text{ThF}_4$  for coating optical components. The licensee is allowed a maximum of 130 lbs of thorium in use, storage and waste at its facility.

The products transferred for use under 10 CFR 40.13(c)(7). Distributed products are thin film coated optics with thorium fluoride ( $\text{ThF}_4$ ) coating.

1. Name, address and License number of person who transferred source material:  
Rocky Mountain Instrument Co  
106 Laser Drive, Lafayette, CO 80026  
License Number: 05-35173-01E.
2. Less than 50 grams of thorium was distributed in any calendar quarter. Less than 6 grams of thorium was distributed to customers in the U.S. for the entire 2017 calendar year.
3. All thorium distributed was thorium in the form of  $\text{ThF}_4$  as contained in the thin film of thin-film coated custom optics. Since all parts are custom made to order RMI does not assign model numbers to any of the custom products it manufactures. The thorium content contained in the thin film coatings is less than 10% of the total weight of any part manufactured by RMI.
4. For 2017 there was a total of 5.518 grams of thorium thin film coatings on a total of 2151 parts that were distributed to customers in the United States. The form of the source material was in thin-film coating of custom optics as thorium tetra fluoride ( $\text{ThF}_4$ ).



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5. Attached is a list of the job number, part number, date shipped, thorium content per part, the total number of parts shipped, and the total thorium content contained on the parts shipped. The parts are used in industrial, military, research and aerospace products.

Please feel free to contact me if you need any addition information or documentation.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg Minton", written over a horizontal line.

Greg Minton  
V.P. Corporate Affairs  
Rocky Mountain Instrument Co  
[Greg.minton@rmico.com](mailto:Greg.minton@rmico.com)

Thorium Coated Optics Shipping Log					
Job #	Shipping Date	# of Parts	Part Number	Thorium content per part - grams	weight times number of parts in grams
E6099D0	1/4/17	20	087-713103-03A	0.002384	0.047673
J6095D1	1/4/17	10	115-0140-02-4	0.000324	0.003238
L6084D0	1/4/17	50	115-0140-02-4	0.000324	0.016191
G6036D0	1/6/17	4	002075-DAR	0.000302	0.001209
G6036D0	1/6/17	3	002076-DAR	0.002020	0.006061
J5033D0	1/6/17	11	000804-DAR	0.002020	0.022222
J5033D0	1/6/17	11	000805-DAR	0.002818	0.031000
L6011D0	1/6/17	2	LWP0508Z4359204	0.005926	0.011851
M6027D0	1/10/17	10	LX05010Z03A06NA	0.000911	0.009112
A7036D0	1/11/17	4	PR1012SA0690	0.006034	0.024136
G6036D0	1/12/17	5	002075-DAR	0.000313	0.001566
G6036D0	1/12/17	5	002076-DAR	0.002020	0.010101
J5033D0	1/12/17	9	000804-DAR	0.002020	0.018182
J5033D0	1/12/17	10	000805-DAR	0.002818	0.028181
M6052D0	1/24/17	4	0637-153-01-T-A	0.002588	0.010351
E6003D0	1/24/17	6	0637-153-01-T-A	0.002588	0.015526
M6051D0	1/24/17	4	0626-872-01-A	0.001725	0.006901
A7036D0	1/24/17	6	PR1012SA0690	0.006034	0.036204
J5033D0	1/24/17	12	000804-DAR	0.002020	0.024242
J5033D0	1/24/17	17	000805-DAR	0.002818	0.047908
D5041D0	1/24/17	1	001379-DAR	0.000313	0.000313
G6036D0	1/24/17	1	002075-DAR	0.000313	0.000313
G6036D0	1/24/17	1	002076-DAR	0.002020	0.002020
A7008D0	1/24/17	5	*COATING SERVICE	0.001592	0.007958
M6054D0	2/6/17	2	002075-DAR	0.000302	0.000605
K6083D0	2/6/17	5	.1W1012ZA06NA1	0.003645	0.018225
A7022D0	2/6/17	32	115-0140-02-4	0.000324	0.010362
A7022D0	2/14/17	43	115-0140-02-4	0.000324	0.013924
A7022D0	2/14/17	23	115-0140-02-4	0.000324	0.007448
D5041D1	2/15/17	1	001379-DAR	0.000313	0.000313
M6051D0	2/16/17	6	0626-872-01-A	0.001725	0.010352
M6054D0	2/17/17	9	002075-DAR	0.000313	0.002818
M6054D0	2/17/17	11	002076-DAR	0.002020	0.022222
M6099D0	2/21/17	2	11681-302-B	0.006656	0.013311
K6083D0	2/21/17	5	.1W1012ZA06NA1	0.003645	0.018225
K6083D0	2/21/17	10	.1W1012ZA06NA1	0.003645	0.036450
A7043M0	2/27/17	2	MSWP10L80C106	0.009698	0.019397
A7043M0	2/27/17	2	MSWP10L80C106+	0.009698	0.019397
A7064D0	2/27/17	3	0623-494-01-C	0.000827	0.002482
J5033D0	3/3/17	17	000804-DAR	0.002020	0.034343
J5033D0	3/3/17	21	000805-DAR	0.002818	0.059181

M6054D0	3/3/17	2	002075-DAR	0.000313	0.000626
M6054D0	3/3/17	1	002076-DAR	0.002020	0.002020
B7063D0	3/3/17	7	002075-DAR	0.000313	0.002192
A7022D0	3/7/17	127	115-0140-02-4	0.000324	0.041125
B7060D0	3/7/17	140	115-0140-02-4	0.000324	0.045335
K6061D0	3/7/17	100	2000700-A	0.005825	0.582524
K6062D0	3/7/17	100	OP25-00-3159-D	0.000568	0.056822
G5106D0	3/9/17	1	087-712204A	0.021565	0.021565
C7048D0	3/9/17	3	LX11025ZNA196HS	0.004410	0.013231
B7060D0	3/17/17	60	115-0140-02-4	0.000324	0.019429
B7063D0	3/17/17	7	002076-DAR	0.002020	0.014141
C7112D0	3/27/17	3	LX11050ZNA118HS	0.004410	0.013231
K6083D0	3/28/17	10	.1W1012ZA06NA1	0.003645	0.036450
F6046D0	3/28/17	12	087-715002C	0.000797	0.009567
A7096D0	3/31/17	1	1985101	0.000168	0.000168
A7096D0	3/31/17	1	1985102	0.000660	0.000660
A7096D0	3/31/17	1	1985103	0.000660	0.000660
C7104M0	4/3/17	4	LWP1012Z209	0.008922	0.035688
C7133D0	4/3/17	1	HR0538ULR212	0.001691	0.001691
K6083D0	4/24/17	10	.1W1012ZA06NA1	0.003645	0.036450
D7034M0	4/25/17	1	*COATINGSERV	0.002020	0.002020
C7131D0	4/26/17	2	3700-3048	0.023291	0.046581
L6083D0	5/15/17	4	F002431	0.068128	0.272514
M6052D0	5/16/17	10	0637-153-01-T-A	0.002588	0.025876
M6051D0	5/16/17	10	0626-872-01-A	0.001725	0.017253
B7063D0	5/17/17	1	002075-DAR	0.000313	0.000313
B7063D0	5/17/17	1	002076-DAR	0.002020	0.002020
J5033D0	5/17/17	7	000804-DAR	0.002633	0.018429
J5033D0	5/17/17	8	000805-DAR	0.002633	0.021061
A7020D0	5/26/17	1	SR1937-L03	0.024919	0.024919
B7101D0	5/30/17	5	LX26260H10106NA	0.003645	0.018225
D7072D0	5/31/17	7	LX11050ZNA118HS	0.004410	0.030873
D7072D0	5/31/17	10	LX11025Z06NA196	0.004410	0.044104
D7072D0	6/12/17	3	LX11050ZNA118HS	0.004410	0.013231
D7072D0	6/12/17	10	HR1517SESA064F	0.008201	0.082011
M6054D0	6/16/17	4	001380-DAR	0.000704	0.002818
M6054D0	6/16/17	4	001381-DAR	0.002368	0.009471
G6036D0	6/16/17	4	001379-DAR	0.000313	0.001253
J5033D0	6/16/17	60	000804-DAR	0.002723	0.163393
J5033D0	6/16/17	3	001380-DAR	0.000704	0.002113
J5033D0	6/16/17	3	001381-DAR	0.002368	0.007103
B7063D0	6/16/17	3	002075-DAR	0.000313	0.000939
F7072D0	6/19/17	4	68V4,079729XA	0.124212	0.496847
B7063D0	6/28/17	3	002076-DAR	0.002020	0.006061
D7063M0	6/28/17	1	LLD-200-0029	0.048447	0.048447
D7063M0	6/28/17	1	LLD-200-0030	0.001562	0.001562
D7063M0	6/28/17	1	LLD-200-0031	0.003124	0.003124

D7063M0	6/28/17	1	LLD-200-0032	0.003124	0.003124
C7099M0	6/28/17	1	LLD-200-0038	0.001907	0.001907
K6048D0	7/10/17	10	087-713103-03A	0.002384	0.023837
H5009D0	7/12/17	1	24-00098-02	0.004410	0.004410
K6062D0	7/13/17	100	OP25-00-3159-D	0.001137	0.113683
K6060D0	7/13/17	100	2000699-B	0.000568	0.056842
G7057D0	7/19/17	4	LX20100G04930DA	0.014580	0.058320
J5033D0	8/23/17	16	000805-DAR	0.002724	0.043590
M6054D0	8/24/17	6	001380-DAR	0.000704	0.004227
M6054D0	8/24/17	7	001381-DAR	0.002368	0.016577
G6036D0	8/24/17	8	001379-DAR	0.000313	0.002505
K6048D0	8/31/17	15	087-713103-03A	0.002384	0.035755
G7029D0	8/31/17	15	0614-994-01-B	0.004623	0.069341
G7029D0	8/31/17	5	1000-004-01-T-B	0.004101	0.020505
G7079D0	8/31/17	6	OC1012Z90096	0.029411	0.176463
G7096D0	8/31/17	2	LX10050ZNA130	0.003645	0.007290
G7096D0	8/31/17	2	LX15050ZNA130	0.008201	0.016402
B7063D0	9/12/17	6	002075-DAR	0.000313	0.001879
B7063D0	9/12/17	5	002076-DAR	0.002020	0.010101
J5033D0	9/14/17	25	000805-DAR	0.002724	0.068110
F7014D0	9/18/17	2	1656102	0.003309	0.006618
H7067D0	9/22/17	30	000805-DAR	0.002724	0.081732
K6083D0	9/22/17	10	.1W1012ZA06NA1	0.003645	0.036450
K7002D0	10/3/17	1	PR1012SA0690	0.006034	0.006034
F7014D0	10/13/17	1	1656102	0.003309	0.003309
H7067D0	10/13/17	12	000805-DAR	0.002724	0.032693
H7071D0	10/16/17	3	SWP2603C2004	0.010352	0.031055
K6048D0	10/16/17	20	087-713103-03A	0.002384	0.047673
H7008D0	10/18/17	1	*L15775	0.032353	0.032353
H7008D0	10/18/17	1	L15776	0.038135	0.038135
H7067D0	10/26/17	6	000805-DAR	0.002724	0.016346
G6036D0	10/26/17	1	001379-DAR	0.000313	0.000313
M6054D0	10/26/17	1	001381-DAR	0.002368	0.002368
J5033D0	10/30/17	1	00804-DAR	0.002020	0.002020
F7029D0	10/30/17	1	A655SC	0.130201	0.130201
M6051D0	10/31/17	5	0626-872-01-A	0.001725	0.008626
M6052D0	10/31/17	4	0637-153-01-T-A	0.001725	0.006901
G7101D0	10/31/17	4	1916-3111	0.013791	0.055166
M6027D0	10/31/17	10	LX05010Z03A06NA	0.000911	0.009112
K6048D0	11/8/17	38	087-713103-03A	0.002384	0.090579
G7051M0	11/8/17	3	*COATINGSERV	0.014204	0.042612
G7051M0	11/8/17	18	CAF2OPTICS	0.014204	0.255669
H7114D0	11/14/17	300	WI0406G750BA2	0.000682	0.204461
K7001D0	11/22/17	9	PR1012SA0690	0.006034	0.054306
H7067D0	11/22/17	22	000804-DAR	0.002020	0.044444
H7067D0	11/22/17	28	000805-DAR	0.002724	0.076283
G6036D0	11/22/17	3	001379-DAR	0.000313	0.000939

B7063D0	11/22/17	3	002075-DAR	0.000313	0.000939
B7063D0	11/22/17	3	002076-DAR	0.002020	0.006061
M6054D0	11/22/17	3	001380-DAR	0.000704	0.002113
M6054D0	11/22/17	3	001381-DAR	0.002368	0.007105
K7013D0	10/19/17	1	*COATING	0.103320	0.103320
H7067D0	12/8/17	35	000804-DAR	0.002020	0.070706
H7067D0	12/8/17	37	000805-DAR	0.002724	0.100803
K7034D0	12/8/17	5	226839	0.016409	0.082047
B7063D0	12/13/17	1	002075-DAR	0.000313	0.000313
B7063D0	12/13/17	4	002076-DAR	0.002020	0.008081
L7039D0	12/15/17	3	BS1012ZA0602	0.003645	0.010935
M6054D0	12/15/17	1	001380-DAR	0.000704	0.000704
M6054D0	12/15/17	1	001381-DAR	0.002368	0.002368
H7067D0	12/15/17	4	000804-DAR	0.002020	0.008081
H7067D0	12/15/17	4	000805-DAR	0.002724	0.010898
G6036D0	12/15/17	1	001379-DAR	0.000313	0.000313
K7027D0	12/19/17	5	STAG-200-005	0.016877	0.084386
	No.Parts:	2151			
		Total grams of thorium shipped in 2017:			5.518086