



## Rocky Mountain Instrument Co.

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

28 January 2025

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

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

To Whom It May Concern:

Rocky Mountain Instrument Co (RMI) 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. A total of 21.330 grams of thorium was distributed to customers in the U.S. for the 2024 calendar year.



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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 part numbers referenced in the attachment are the customer's assigned part numbers along with the job number assigned by RMI. 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 2024 there was a total of 21.330 grams of thorium thin-film coatings on a total of 4,011 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 ( $\text{ThF}_4$ ).

5. Attached is a list of 2024 thorium shipments including; the job number, shipping date, customer part number, the number of parts in the shipment, thorium content weight per part, and the total thorium content contained in the parts shipped. RMI does not sell parts to the general public or consumers. RMI optics are used in industrial, military, research and aerospace products.

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

Sincerely,

A handwritten signature in blue ink that reads "Thomas Frotten".

Thomas Frotten  
Director of Operations  
Rocky Mountain Instrument Co  
[tfrotten@rmico.com](mailto:tfrotten@rmico.com)



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<u>Job</u> <u>Number</u>	<u>Shipping</u> <u>Date</u>	<u>Part Number</u>	<u>wt of ThF4</u> <u>per part</u>	<u># of Parts</u>	<u>Thorium</u> <u>weight total</u> <u>(grams)</u>
CJ069D0	8-Jan	AL-83320-AA	0.000121501	24	0.002916033
CJ069D0	8-Jan	AL-83321-AA	0.000399534	24	0.009588826
CJ069D0	8-Jan	AL-83323-AA	0.030362721	24	0.728705316
DM036D0	8-Jan	AL-83321-AA	0.000399534	12	0.004794413
DM037D0	8-Jan	AL-83321-AA	0.000399534	12	0.004794413
DJ027D0	9-Jan	POWELLENS10	0.000454806	2	0.000909613
DJ027D0	9-Jan	POWELLENS20	0.000454806	2	0.000909613
DJ027D0	9-Jan	POWELLENS45	0.000454806	2	0.000909613
DL053D0	10-Jan	OC2520Z1SA0655	0.034456745	5	0.172283723
DK018D0	10-Jan	18-10701	0.000805369	7	0.005637583
DK019D0	10-Jan	18-10701	0.000805369	43	0.034630869
DD060D0	25-Jan	.1W1012ZA06NA1	0.0042573	10	0.042572997
DM041D0	30-Jan	AL-83320-AA	0.000121501	5	0.000607507
DM040D0	30-Jan	AL-83323-AA	0.003036272	11	0.033398994
CJ069D0	30-Jan	AL-83323-AA	0.003036272	12	0.036435266
DM003D0	31-Jan	*485302824-C	0.019125773	1	0.019125773
DM003D0	31-Jan	*485302829-B	0.035160676	1	0.035160676
DK028D0	2-Feb	SR1937-L01-B	0.013056173	5	0.065280864
DK028D0	2-Feb	SR1397-L02-B	0.011888304	5	0.059441521
DD060D0	6-Feb	.1W1012ZA06NA1	0.0042573	40	0.170291989
CL023D0	6-Feb	OP25-00-3159-D	0.001265264	125	0.158157962
DK021D0	8-Feb	087-713402A	0.001988004	20	0.03976009
DJ017D0	8-Feb	8605436-1	0.002566081	4	0.010264323
DK032D0	9-Feb	WI1112Z+DA2	0.006697822	4	0.026791286
DK032D0	9-Feb	WI1512Z+DA2	0.01245395	4	0.049815799
DK032D0	9-Feb	BCR2020Z209A022	0.078044434	4	0.312177736
CL024D0	15-Feb	2000700-A	0.004422516	75	0.3316887
CL024D0	15-Feb	2000700-A	0.004422516	38	0.168055608
DL051D0	16-Feb	WI0406G750BA2	0.004134922	57	0.235690529
EB040D0	20-Feb	AL-83323-AA	0.030362721	11	0.333989936
EB040D0	20-Feb	AL-83320-AA	0.000121501	5	0.000607507
DL052D0	22-Feb	WI0406G750BA2	0.004134922	43	0.177801627
DL036D0	28-Feb	RT1004C2403404	0.011495238	10	0.114952381





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CL020D0	28-Feb	2000699-B	0.004422516	125	0.5528145
CJ069D0	28-Feb	AL-83323-AA	0.003036272	12	0.036435266
EA015D0	29-Feb	AL-83321-AA	0.000399534	12	0.004794413
EBO41D0	29-Feb	AL-83321-AA	0.000399534	12	0.004794413
DL052D0	4-Mar	WI0406G750BA2	0.004134922	100	0.413492156
EA059D0	6-Mar	4161-OP-007-AB	0.026312543	2	0.052625086
DK003D0	12-Mar	230501P12122-A	0.003545739	12	0.042548865
DK003D0	12-Mar	230501P12123-B	0.002845176	12	0.034142114
DK003D0	12-Mar	230501P12124-B	0.00144299	12	0.017315874
EA020D0	13-Mar	3700-1109-A	0.00084065	8	0.006725199
CL024D0	20-Mar	2000700-A	0.004422516	87	0.384758892
DL052D0	25-Mar	WI0406G750BA2	0.004134922	100	0.413492156
EA014D0	28-Mar	OC2020Z10A0270	0.027091565	8	0.216732518
EA014D0	28-Mar	OC2020Z10A0285	0.026146138	8	0.209169107
DE084D0	2-Apr	0026401B	0.018098072	30	0.542942165
EC015D0	9-Apr	LX20074ZNA380HS	0.034088221	8	0.272705769
EA039D0	10-Apr	4710-OP086-AA	0.006749333	2	0.013498665
EA039D0	10-Apr	4710-OP096-AA	0.011390956	1	0.011390956
EA060D0	10-Apr	4161-OP008-0-AB	0.026312543	2	0.052625086
EA060D0	10-Apr	110018-OP105-AA	0.00407812	2	0.008156239
DL052D0	15-Apr	WI0406G750BA2	0.004134922	100	0.413492156
EBO59D0	17-Apr	AL-83320-AA	0.000121501	18	0.002187025
DA053D0	19-Apr	1004-102-01	0.000430007	5	0.002150033
DJ019D0	19-Apr	0626-872-01-A	0.004410606	10	0.044106065
DM014D0	26-Apr	LWP4924C4004	0.320919568	2	0.641839135
CL024D0	30-Apr	2000700-A	0.004422516	125	0.5528145
CL020D0	2-May	2000699-B	0.004422516	125	0.5528145
DL052D0	6-May	WI0406G750BA2	0.004134922	100	0.413492156
CL023D0	10-May	OP25-00-3159-D	0.001265264	125	0.158157962
EA039D0	17-May	4710-OP085-AA	0.001541189	1	0.001541189
EA039D0	17-May	4710-OP087-AA	0.000726341	2	0.001452681
EA048D0	21-May	3030320000-B	0.003695649	7	0.025869545
ED019D0	21-May	47514-069	0.003631875	3	0.010895624
EA047D0	21-May	.1W1012ZA06NA1	0.0042573	10	0.042572997
EA039D0	22-May	4701-OP084-AA	0.014015129	1	0.014015129
EC039D0	23-May	.1WBS2020ZA0210	0.012526416	6	0.075158497
EC039D0	23-May	.1WBS2020ZA0230	0.019866689	6	0.119200132
EC039D0	23-May	.1WBS2020ZA0250	0.020399287	6	0.122395722



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EC039D0	23-May	.1WBS2020ZA0290	0.029963543	6	0.179781259
EA047D0	30-May	.1W1012ZA06NA1	0.0042573	10	0.042572997
DE084D0	5-Jun	2640113	0.023280532	30	0.698415956
EA055D0	10-Jun	WI0406G750BA2	0.004134922	250	1.03373039
ED029D0	20-Jun	ZNSEINSERTFW2-1	0.150470588	1	0.150470588
ED029D0	20-Jun	ZNSEINSERTEW2-2	0.13370413	1	0.13370413
EA047D0	24-Jun	.1W1012ZA06NA1	0.0042573	10	0.042572997
EE007D0	9-Jul	087-713402A	0.001988004	17	0.033796076
EG007D0	12-Jul	WI1112Z+DA2	0.004369807	4	0.017479228
EG007D0	12-Jul	WI1512Z+DA2	0.004369807	4	0.017479228
EG007D0	12-Jul	BCR2020Z209A022	0.00126913	3	0.003807391
EE009D0	24-Jul	AL-83528-AA	0.000399534	18	0.007191619
EA047D0	26-Jul	.1W1012ZA06NA1	0.0042573	10	0.042572997
EA055D0	9-Aug	WI0406G750BA2	0.004134922	250	1.03373039
EE022D0	16-Aug	WIM05S400BA2	0.919276527	1	0.919276527
EF007D0	20-Aug	AL-83528-AA	0.000399534	16	0.006392551
CJ069D0	30-Aug	AL-83323-AA	0.003036272	23	0.069834259
EH038D0	30-Aug	AL-83320-AA	0.001214383	5	0.006071913
EH039D0	30-Aug	AL-83321-AA	0.003995344	14	0.055934817
EF014D0	12-Sep	RELLENS1	0.002108571	4	0.008434283
EF014D0	12-Sep	RELLENS2	0.003168164	4	0.012672655
EF014D0	12-Sep	RELLENS3	0.002108571	4	0.008434283
EF014D0	12-Sep	RELLENS4	0.002687673	4	0.010750693
EF014D0	12-Sep	RELLENS5	0.002536542	4	0.010146169
EG022D0	13-Sep	087-713402A	0.001988004	20	0.03976009
EF045D0	13-Sep	47516-079-A	0.017902783	2	0.035805566
DJ019D0	18-Sep	0626-872-01-A	0.004410606	5	0.022053032
EA047D0	24-Sep	.1W1012za06na1	0.0042573	10	0.042572997
EJ036D0	25-Sep	*SWP1054	0.021754946	10	0.217549463
CL066D0	26-Sep	OC0420C29485+	0.001281654	40	0.051266152
CL066D0	26-Sep	HR0420C02LR294+	0.001281654	60	0.076899228
EJ021D0	27-Sep	LWP1012C4054+	0.01099174	2	0.021983481
EF016D0	30-Sep	WI0406G750BA2	0.004134922	250	1.03373039
EF050D0	3-Oct	SWP1025C1720	0.001719956	6	0.010319733
EF050D0	3-Oct	SWP1025C.51720	0.001719956	2	0.003439911
EF050D0	3-Oct	SWP1025C.21720	0.001719956	2	0.003439911
EF050D0	3-Oct	SWP1025C.11720	0.001719956	2	0.003439911
EF051D0	3-Oct	BOC1025C48098	0.024141381	2	0.048282761





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EF051D0	3-Oct	BOC1025C.548098	0.024141381	2	0.048282761
EF051D0	3-Oct	BOC1025C.248098	0.024141381	2	0.048282761
EF051D0	3-Oct	BOC1025C.148098	0.024141381	2	0.048282761
EF051D0	3-Oct	BOC1025C.548098	0.024141381	2	0.048282761
EG021D0	9-Oct	410-3032A	0.017896008	8	0.143168066
EG021D0	9-Oct	410-3033A	0.013214538	8	0.105716305
EG034D0	10-Oct	087-713402A	0.001988004	39	0.077532175
EK044D0	25-Oct	3700-1081	0.013945957	2	0.027891913
EK044D0	25-Oct	3700-1109-A	0.000840119	4	0.003360476
EG021D0	28-Oct	410-3031	0.025889763	8	0.207118106
EF016D0	28-Oct	W10406G750BA2	0.004134922	250	1.03373039
CL023D0	31-Oct	OP25-00-3159-D	0.001265264	125	0.158157962
EJ063D0	7-Nov	*CR:ZNSG209164	0.049330406	1	0.049330406
EF055D0	7-Nov	212A0001	0.039493163	2	0.078986325
EF055D0	7-Nov	212A0002	0.026436522	2	0.052873044
EF055D0	7-Nov	212A0003	0.017553158	2	0.035106316
EF055D0	7-Nov	212A0008	0.006128886	2	0.012257773
EF055D0	7-Nov	212A0009	0.006128886	2	0.012257773
EK008D0	8-Nov	*485302824-C	0.000302546	1	0.000302546
EK008D0	8-Nov	*WITSAMP	0.003025456	10	0.03025456
DJ003D0	15-Nov	OC0420C29485+	0.001281654	4	0.005126615
DJ003D0	15-Nov	HR0420C02LR294+	0.001281654	30	0.038449614
EA047D0	25-Nov	.1W1012ZA06NA1	0.0042573	10	0.042572997
EF016D0	25-Nov	W10406G750BA2	0.004134922	250	1.03373039
EH048D0	5-Dec	*RT29634664	0.018806125	1	0.018806125
EH048D0	5-Dec	*DAR1670-2932	0.000450246	1	0.000450246
DM029D0	6-Dec	AL-83321-AA	0.000399534	12	0.004794413
EJ065D0	6-Dec	*LWP120750	0.358108669	1	0.358108669
EL018D0	9-Dec	LX20075ZNA310HS	0.034071404	4	0.136285616
EJ070D0	12-Dec	416976-01A	0.013029808	3	0.039089424
EM005D0	26-Dec	*LWP3504	0.326297616	1	0.326297616
EA047D0	27-Dec	.1W1012ZA06NA1	0.0042573	10	0.042572997
EF016D0	30-Dec	W10406G750BA2	0.004134922	250	1.03373039

total wt grams	21.33044988
shipped 2024	