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**From:** Vicars, Gerald  
**Sent:** Tuesday, January 13, 2009 1:07 PM  
**To:** Norton, Vince; James, Will  
**Cc:** Boyles, Derek  
**Subject:** FW: CURRENT 770 FIRE CONTROL

Vince,  
 Can the required operational forces be brought into parity with existing fire controls? Is this acceptable? If not, what are our options?

**Gerald Vicars**  
 Engineering Manager  
**REMINGTON ARMS COMPANY, INC.**  
 P.O. BOX 99  
 22 RIFLE TRAIL  
 HICKORY, KY. 42051  
 Phone: (270) 856-4209  
 Fax: (270) 856-3233  
<mailto:gerald.vicars@remington.com>  
 Visit us @ <http://www.remington.com>

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**From:** Boyles, Derek  
**Sent:** Tuesday, January 13, 2009 11:29 AM  
**To:** Tipton, Don; Vicars, Gerald  
**Subject:** FW: CURRENT 770 FIRE CONTROL

FYI...there is a big difference b/w current F/C and the new one. DAT test data from Oct '07 shows the safety on force at 3 – 5.8 lbs.

Regards,

**Derek Boyles**  
**Quality Engineer**  
 Remington Arms Company, Inc.  
 22 Rifle Trail  
 Hickory, KY 42051  
 Phone: 270-856-4227  
 Fax: 270-856-3233  
[www.remington.com](http://www.remington.com)

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**From:** Norton, Vince  
**Sent:** Monday, January 12, 2009 4:18 PM  
**To:** Boyles, Derek  
**Subject:** CURRENT 770 FIRE CONTROL

Here is data for safety on/off forces for 5 current model 770 fire controls. The new one is certainly higher; by more than 2x in some cases.

A								
Zero round level.			50 round level.			100 round level.		
	Off	On		Off	On		Off	On
1	1.82	4.02	1	2.26	3.90	1	2.34	3.94
2	2.06	4.52	2	2.26	3.96	2	2.34	4.08
3	1.86	4.02	3	1.82	3.94	3	2.14	4.22

avg	1.91	4.19
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avg	2.11	3.93
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avg	2.27	4.08
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**B****Zero round level.**

	Off	On
1	1.80	4.82
2	1.70	4.06
3	1.76	4.02
avg	1.75	4.30

**50 round level.**

	Off	On
1	1.74	4.06
2	2.16	4.72
3	2.12	4.14
avg	2.01	4.31

**100 round level.**

	Off	On
1	2.52	4.28
2	2.34	4.14
3	2.24	4.16
avg	2.37	4.19

**C****Zero round level.**

	Off	On
1	2.48	4.68
2	2.10	4.62
3	1.88	4.72
avg	2.15	4.67

**50 round level.**

	Off	On
1	2.20	4.36
2	1.76	4.70
3	1.74	4.64
avg	1.90	4.57

**100 round level.**

	Off	On
1	2.10	4.80
2	1.86	4.66
3	1.86	4.86
avg	1.94	4.77

**D****Zero round level.**

	Off	On
1	1.48	4.10
2	1.70	3.92
3	1.48	3.72
avg	1.55	3.91

**50 round level.**

	Off	On
1	1.70	4.16
2	1.74	3.96
3	1.66	4.30
avg	1.70	4.14

**100 round level.**

	Off	On
1	1.76	4.36
2	1.74	4.10
3	1.68	4.52
avg	1.73	4.33

**E****Zero round level.**

	Off	On
1	1.52	4.10
2	1.70	4.30
3	1.58	4.10
avg	1.60	4.17

**50 round level.**

	Off	On
1	1.60	3.98
2	1.48	4.16
3	1.52	3.98
avg	1.53	4.04

**100 round level.**

	Off	On
1	1.72	4.42
2	1.76	4.48
3	1.70	4.50
avg	1.73	4.47

*Vincent Norton*

Sr. Research Engineer

Remington Arms Co.  
 Research & Development Technology Center  
 315 West Ring Road  
 Elizabethtown, KY 42701  
 (270) 769-7612 (phone)  
 (270) 737-9576 (fax)

[vince.norton@remington.com](mailto:vince.norton@remington.com)