Fire Control Matrix

Rear Hook (handwritten)

Trigger Objectives	Plunger	SR I
Required:		
1. Trigger assembly must be retrofitable to consumer Model 700 and Model 7 rifles	Yes	Yes
2. Placement of safety lever in "safe" position forces engagement of trigger and sear within specifications	Yes. However, assumes no obstructions and addition of plate to bolster safety cam strength. See below	Yes. Trigger in this instance is camed in place.
3. Trigger assembly will not allow placement of safety lever in "safe" position unless minimum engagement achieved	Yes. See above	Yes.
4. Prevent fire on safety release under normal operation (i.e. assume trigger is not being pulled)	Yes. See above	Yes. See above
5. Trigger assembly must be manufacturable	Unknown till we build prototype. However, must remember that concept is process sensitive.	Unknown till we build prototype.
6. Any attempt to tamper with factory default trigger settings must be readily evident	Yes	Yes. All adjustments will rendered tamper proof. Evidence of tampering will be insured.
7. Trigger pull 3.0 lbs -0 + 1.0 lbs	Yes. Should be able to source spring with adequate tolerence. However, may require pull adjustment	Yes. Will modify assembly instructions and or specs.
8. Trigger "feel" and performance must meet or exceed current production trigger assembly	Probably. Must test	Yes *Probably. Must test.* (handwritten)
9. Trigger assembly must pass all SAAMI drop test requirements	Yes	Yes.
10. Fire control must pass all functional testing	Probably. Need to define and start tests	Probably. Assuming current test requirements
Nice to Have:		
1. Skeletonized side plates	Yes.	No. Unless after design proved, side plates can be easily and predictably modified
2. Rifle will not fire if trigger is pulled and held rearward as safety is moved from safe to fire position	Yes. But we do not yet know why	No.
3. Cost reduction	Should be, but do not have cost breakdown.	No.
4. Part reduction	Yes	No. Number of parts unchanged
5. Improved manufacturability	Unclear	No
6. Set .015 engagement as default	No. Current range is .020 +/- .002, reducing only makes more process sensitive	Yes. Modification to current comparator screen required
7. Ambidextrous design	Yes	Yes

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