

TO: R.A. Jackson  
FROM: W.A. Warren, Jr.

September 29, 1993

PROGRESS REPORT September, 1993

#### M700 VS. "Sendero Special"

Rifle Eng. and the R&D Lab. have completed additional follow-up to quality-of-workmanship issues raised last month. All remaining rifles were disassembled and inspected. Examples of specific opportunities for improvement were reviewed with the shift foreman for corrective action with the one (new) assembler who built all of them.

I made others aware of "when produced" questions on field reports of sub-standard quality on H-S stocks and additional processing steps likely to result from substituting a McMillan for an H-S stock.

#### FLUTED BARRELS

1994 VS SS (PI-2 8-6-93) Flute depth mimics the regular barrel contour. Flute dimensional calculations were completed on AUTOCAD. Marked drawings to implement this are complete. These have been provided to make samples during the "Engineering run" window on the Monarch VMC. Due to urgent work on the Peerless, a CV detailer is not yet available to complete/update model drawings.

##### SPECIAL ORDER FOR "HICKS" (jobber)

o VS and VS Sendero This is a limited run. barrels. Both will be fluted the same-to mimic magnum profile. This provides a common appearance. Only the magnum will be marked "SENDERO". Calculations were completed on AUTOCAD. Marked drawings have been recently provided to run samples on the Monarch VMC.

o BDL These will be fluted to mimic the "Mountain Rifle" contour. Flutes will be narrower, shallower and shorter than on the VS versions. Information necessary to run samples is 15% complete. My current top priority is to complete this information for the sample run on the Monarch.

#### BASIC RESEARCH-RELEASE MECHANISMS

Measurement Apparatus: Changes are indicated where the previous month's value appears in parentheses.

Status:	Percent complete
o purchasing major components	95
o purchasing, designing and fabricating small components	15(10)
o learning the operation and setup of the force transducer	10(0)
o " " " " " " displacement "	60(20)
o linking above to the Tektronics transient data capture device	10
o learning the programming and operation of the motor-driven motion control system	5
o integrating the components and debugging their operation	0

#### DESIGN-RELATED

On an ongoing basis, I am assisting M. Keeney with his NBAR process-design integration program.

#### SAFETY

R&D safety committee: Members of the Tech Staff have accepted my charter proposing improvements. I have agreed to act as Resource to the new group-if they so request. Their first Safety Meeting went very well. The committee members showed much initiative in obtaining and presenting additional timely information and promoting audience participation.

#### TRAVEL FOLLOW-UP

We still have not received the information produced during July's trip to Houston, TX.

END