

Harold Davidson
Status Report
April 1, 1998

Sportsman 99:

- Optimization of the Sportsman fire-control indicated the current configuration will not provide sufficient hammer energy and reasonable trigger pull (4-6 lbf.). We can get one or the other, but not both. To guarantee sufficient indent and reasonable trigger pull, Doug has decided to copy the 90-T fire-control. This does add one pin to the arrangement, but does not considerably increase the complexity of the system.
- Stress analysis of the injection molded steel fire receiver has been quiet with Randy on vacation. I know he has spent considerable time developing his idea, so I expect work on the receiver to pick soon.

Bolt Velocity:

- I helped Gary modify the bolt velocity device to fit an SP-10. This has given Gary a good chance use the system. Thanks to Lori's help and documentation, the bolt velocity device is becoming a technician's tool.

PT/PD Study:

- After talking with Scott I made the decision to use Kistler pressure transducers. We already have 6 amplifiers, so only two will need to be purchased. Once the barrel drawing package is complete it will be sent out for quote.

710:

- A report for the analysis of the M710 fire-control is being written. It will contain the ADAMS drop test results, the Working Model 2-d drop test results, and Derek's system balancing analysis.
- Further stress analysis of the barrel lugs and receiver will be required as the project moves forward.

ANSYS:

- ANSYS 5.4 has been loaded on REM11. It has some noticeable meshing and contact improvements.

