

To: Dale Danner
From: Scott Franz

5/1/00

RE: Monthly Status Report

- **CAD Activities**

SolidWorks/SmarTeam:

See Harold Davidson's status report for specific information on SmarTeam integration and conversion of projects over to SolidWorks. Things overall are going well. Have installed one seat of SolidWorks in Lonoke (R. Grove's PC). This is served with our license management software. Our current average license usage is 10-12 seats per day. This could be a useful tool for ammo engineers that travel frequently between Lonoke and E-town. SolidWorks 2000 has been officially released. We should be receiving CD's this week. Need to determine when and how this upgrade should take place.

- **Test Lab Activities**

Have contacted Savage on updated costs for a new bullet trap. Will submit a Capital project request as soon as we receive the quote. Air sampling test #2 in the pistol range is scheduled for May 10th. Model 710 DAT(Phase 1): NAS support and EV drop testing are the major lab activities currently on-going. Additional Test Lab activities will be included in Phillips status report.

- **Model 710 Engineering Tests**

The three Engineering Evaluation tests aimed at characterizing the performance of the 710 fire control under extreme conditions are almost complete. A report has been issued for the Strength test. Brian Rages is handling the Creep and Fatigue tests. Creep testing is complete. An action with 2X the firing pin load was tested at 200 deg F over a ten day period with no failure of any kind. The fatigue test was run to 10,000 cycles with no major problems, however this test is being redone since a measurement of firing pin movement was in the opposite direction from expectations. This is being attributed to possible axial movement of the insert along with inconsistent measurement procedures. This is a one day test. After completion both of these tests will be documented in a single test report.

- **Direct Conversion Steel Shot Project**

1. Signed NDA in place with Wheelabrator. Sent them our current steel shot specifications. They've transmitted this to their technical people at Wheelabrator Alleverd in France for input. There doesn't seem to be a high level of interest from them at this time.
2. Broke off contact with Pan-Abrasives. They have no US presence, mostly in the far East (Singapore, etc.).

Subject to Protective Order - Williams v. Remington

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3. Completed preliminary metallurgical evaluation of Metaltec samples. Characterized shot for micro-hardness, porosity/voids and shape. A visit to Metaltec is set for May 2nd to review abrasive shot manufacturing process. Jim Urbon will be accompanying me on this trip. Metaltec appears to be the best lead so far.