

To: Dale Danner
From: Scott Franz

8/8/00

RE: Monthly Status Report

• **CAD Activities**

SolidWorks/SmarTeam:

1. See Harold Davidson's status report for additional information on SmarTeam integration and conversion of projects over to SolidWorks.
2. Still need to investigate Life Cycle Procedures in SmarTeam since the M/710 transmittal will take place shortly. This will be the first model transmitted using the SmarTeam PDM software package.
3. Ilion still is not running SmarTeam. In fact they have a demo scheduled for August 31st on a new PDM package called Solidplm that integrates SAP and SolidWorks. I've let Ilion know that SmarTeam Version 4 also communicates with SAP. I'm concerned that the progress we've made to converge all sites to a common CAD and PDM platform is now possibly going in the opposite direction.
4. The ADAMS and ANSYS programs are completely converted to the NT platform. Users are pleased with the performance and convenience of having all applications running on the desktop. The Connection for CADDs translator for ANSYS has been converted to parasolid as well.

• **Test Lab Activities**

1. Additional Test Lab activities will be included in Phillips status report.
2. Delivery for the new bullet trap is expected within the next few weeks.
3. The M/700 EV drop test for Jim Ronkainen continues. The number of load iterations to test has been reduced. This will cut down the time needed to complete this lengthy test. Work continues on this as priorities allow.
4. Model 710 DAT (Phase 2) will start the 2nd week of August. A plan is in place and a schedule has been communicated which puts completion at 15 days after test start.
5. The gun cleaning area just outside the F & C ranges has been re-organized. Safety-Kleen has been contracted and has already installed a cleaning solvent in our existing parts washer. It is a petroleum based solvent called Premium Gold (product number 6638). We'll get a history on this from a cleaning effectiveness and odor standpoint. Bruce Firman has plans to visit E-town soon to cover general environmental compliance issues. While he's here we'll discuss various options on ventilation. He is currently investigating KY regulations around this issue. A gun cleaning system has been proposed for the 2001 non-capital budget. Acquisition of this system would complete the planned upgrade to this area.
6. Micro-Vu training was held on July 26th for all Test Lab technicians.

- **Miscellaneous Activities**

1. Provided technical guidance on the Aluminum Shotgun Receiver project. This included coordinating Brian Rage's effort aimed at generating receiver designs to reduce stress levels to acceptable levels and at the same time meet reasonable aesthetic requirements.
2. Provided technical guidance on NAS activities aimed at improving the recoil jack. This activity is still on going. Primary focus is to lower recoil forces transmitted to gun components (primarily the stock) and to get better agreement in functional performance between the jack and the shoulder. Currently reviewing force data from a lightened version of the NAS jack proposed by Brian Rages.
3. Assisting Ilion (Jim Hennings) in developing procedures to implement a recoil jack maintenance program. Jim has tentative plans to visit E-town the end of August.
4. Coordinated activities of Test Lab and CAD/Analysis group in support of 2001 Budget activities.
5. Attended a meeting on July 31st with Findlay, OH Target Plant personnel to discuss a program aimed at improving Remington's clay target.

- **Direct Conversion Steel Shot Project**

1. Representatives from Wheelabrator visited E-town on July 26th. Serge Parent, Sales & Marketing Manager of Canadian Operations and Philippe Artru, Corporate Technical Director from France were here along with Maurie McCally, our local Sales representative. They brought samples with them that looked encouraging from a shape standpoint. Jim Urbon mounted some of the samples and the interiors showed considerably less voids than the Metaltec samples. Wheelabrator now seems very interested in developing this product. They will now concentrate on the hardness requirement. We expect samples by mid Sept. with various heat treat processes. This meeting was the most encouraging event to date since investigating this technology.
2. Remington anneal experiments on Metaltec shot have been received from AP Southridge heat treaters. Jim Urbon has these samples and has the first set mounted and awaiting micro-hardness measurements.
3. Waiting for Frohn samples from Lonoke to run choke strain measurements.
4. Learned that Ervin Industries had recently acquired Crosmans shot making equipment. They will relocate this equipment to their production facility in Tecumseh, MI.