

29 Oct., 1993

x.c. F.E. Schmidt

To: R.J. Orf —

From: G.D. Sietsema

RE: MONTHLY REPORT — OCTOBER 1993

This months efforts were devoted to optimizing processes for the Peerless. Time was also devoted this month to a support of our plating vendors in processing our components and re-design of a heat set fixture. Time was spent with both Eric Lacoppola and Eric Wood in their training schedule. The remainder of my time was devoted to the standard processing support offered through the MET-CHEM Dept.

Following is a more detailed description of some of the projects I have been working on.

- o Peerless Processes - Optimizing the Heat Treat process is on going. Re-evaluated Flame Hardening of Fore End Irons. Altered fixture to increase the amount of quench applied to the part. Altered fixture to minimize distortion of part.
- o M/700 DM Process - Followed Mag Latch Lft./Rt. and Mag Followers through heat treat process. I am preparing our routing and our heat treater for material change from I.C. 410 S. Steel to MIM 17-4 PH.
- o Partnered with plating vendor extensively to assist in solving processing problems of our parts. This includes Ni-Cr Bolts and Teflon-Ni components.
- o Re-designed M/522 firing pin heat set fixture so it will be standardized with our existing equipment. It is currently in our tool room for modification.

NOTE: Robert Raux is out on medical leave indefinitely. He had surgery to correct a ruptured disk on 10-20-93. He is now home from the hospital and doing well. Both Pete Cross and Steve Staruck are doing an exceptional job at covering Bob's Met-Chem responsibilities in his absence.

Robert Raux was awarded an continuing education diploma from the Materials Engineering Institute of ASM International at the Mohawk Valley Chapter of ASM Oct. Meeting. Bob received the diploma for completing the following ASM courses:

- o Metallurgy
- o Metallurgy for the Non-Metallurgist
- o Metallographic Techniques in Specimen Preparation
- o Fundamentals of Nondestructive Testing
- o Heat Treat Quality and Inspection