

To: Richard Jackson  
From: James A. Love  
Subject: Progress Report (11-30-93)

Infrared Oven Project: The infrared oven is in place. The electrical connections have been completed. On Monday, the 29th, Jim Gulnick from Casso-Solar was on plant to inspect the oven and to start the equipment. During his visit, he assisted me in the programming of the controllers. We also developed a plan of attack, with regards to determining the process parameters. He also briefed me on the maintenance schedule and troubleshooting. Glenn Correll from Morton Powder Coatings (a formulation chemist who has worked with infrared ovens) has offered his services should the need arise. Gene Anderson (a technical representative from Morton) was on plant on the 30th. He was here to help with the process development. We were unable to complete the development because of productions need to use the convection oven. I am ready to complete process development, as soon as production can give me time on the equipment. I estimate it will take 16 shifts to determine the value of the process variables for all four coatings.

Powder Coating of the Detachable Magazine Parts: The powder coating, of the stainless steel colored parts, is going well. The coating of the parts is consistent and has not required engineering support. The gloss black parts still present a problem. Until the Infrared oven is functioning, with the new powder, I have little hope of coating gloss parts on a large scale. During the month, Jim Rabbia and myself worked on solving the problem. In the interim Jim has setup an alternate process. (The trigger guards are painted and the boxes are powder coated and then buffed.)

Regional Program for Excellence in High School: Allan has completed about 50% of the drawings. He is progressing well.

Fitting the Miyano with an Ejector Drilling System: This project is in approval for the capital dollars required.

Cleaning of the powder coating racks: I have found two solutions to this problem. The first is the use of the Ship-Shape Resin Cleaner. I have purchased enough to charge a tank. The cleaner removes the coating from the steel racks and parts, but not from the trigger plates or guards. The process takes about 48 hr., and thus is the major drawback to this method. The second method is to purchase a burn-off oven similar to the BB-59 model made by Bayco Inc. I should have more information regarding the feasibility in the next few weeks. This will be based on the results of the stack emission test conducted before the Thanksgiving shutdown.