

REMINGTON ARMS COMPANY, INC.  
LONOKE, ARKANSAS 72086

To: T. C. Douglas  
From: E. G. Lopata *E. G. Lopata*

September 28, 1992

SUBJECT: SEPTEMBER PROGRESS REPORT

**R&D LABORATORY:**

Final Safe Operating Procedures have been submitted to the Explosives Committee for comment.

A plan was developed to carry out the requirements set out by OSHA Process Safety Management in a meeting conducted by Charles Knott. The lab layout, types of tests, and types of work to be done in this lab were described for the group meeting. The first section titled "Before Moving Equipment and Personnel into the Lab" has been completed at this writing.

Chemical requests with attached Material Safety Data Sheets for each laboratory chemical to be purchased have been submitted to the Occupational Health Coordinator in accordance with OHS 3-80.

The Electrostatic Discharge Apparatus has been delivered and demonstrated. It will need an equipment rack before being operational in the lab. The Brinkman Particle Size Analyzer has been operational in the R&D trailer and used for training. The Brinkman reps will be back out to check the instrument after it is moved to the new location.

The other instruments should be delivered by October 1 and will be set up and training scheduled at weekly intervals with the company reps. All other purchased major equipment items are in house waiting installation. (Specialized equipment, such as the mixer, items are in drafting and design phases. The two pieces of test equipment coming from Germany are supposed to be on their way.)

Standard laboratory equipment items (glassware, etc) are about 60% ordered.

**LEAD-FREE PRIMING MIX - CETR**

Phase 3 literature search and written report are expected by October 27.

**PLANT SUPPORT**

Participation is continued in the revision of the explosives audit procedures as a member of the primer area team. All of the primer audit books have been revised. Some minor changes will probably be needed as these are set into the new explosives area procedures.

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I have been selected to be a member of the Process Safety Management team. The organizational meeting was held September 17.

(R&D Project support)

The CETR study of tetracene-lead peroxide is still being carried out. CETR has reaffirmed that the reaction begins immediately, occurs rapidly with tapering off, and will start even in the dry state as the two are mixed. It is uncertain what percentage of tetracene decomposes overall or if it completely ceases after some time. Analysis of the gas given off will be attempted also.

Fired sabots have been examined for V. Scariata for information that might determine in-bore behavior of the sabot-slug system.