REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

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Remington

AMMUNITION RESEARCH

c: J.R. Ayers

Bridgeport, Conn.
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E.G. LARSON

7mm EXPRESS PROPELLANT MIX

Research conducted tests on four cartridge lots to determine the extent of the propellant mix problem and the effect the mix would have on pressure.

The loading code for the four lots are shown below:

1. M06I
2. M07I
3. M09I
4. M13I

The following is a recap of the test performed and the results of these tests.

1. Visual checks were made to determine the extent of the mix--a total of 20 samples were taken from the four lots. This visual inspection showed that the propellant mix extended through all four lots at approximately the same level.

2. A physical count of different propellant granules was made to determine more accurately the level of mix. The check confirmed that the proportions of 4198 and 7514 propellant were basically uniform throughout all lots. The results are summarized in Table I.

3. At least 10% of each lot was fired to determine the pressure level of the product. Results of this test are shown in Table II.

4. A sample of the powder charges in each lot were weighed:

Code	Avg. Weight (grains)
M06I	52.3
M07I	52.7
M09I	52.2
M13I	52.7
N22B (Control)	54.1