

4 May 1992

cc:K.W.Soucy
D.Thomas

To: J.Ronkainen
From: J.R.Snedeker

SUBJECT: COST ESTIMATE FOR TESTING M/700 DETACHABLE MAGAZINE BOX

Jim, per your attached listing of the various combinations for box material and rifle configurations I have estimated the basic cost for a minimum Design Acceptance Test program. This estimate assumes that a simple 20 round per magazine box test for function will be adequate to determine acceptability of design. Given the number of proposed combinations, I count 67 in all, it should be sufficient to only need to test 6 boxes per combination in order to determine if design criteria has been met.

AMMO COST:

67 (combinations) X 6 (boxes/combination) = 402 boxes
402 (boxes/test) X 20 (rounds/box) = 8040 (rounds/test)
8040 (rounds/test) X .25 (dollars/round) = 2010 (dollars/test)

LABOR COST:

number of rounds shot per day = 1000 (rounds/man-day)
8040 (rounds/test) + 1000 (rounds/man-day) = 8 (man-days/test)
8 (man-days/test) x 8 (man-hours/man-day) = 64 (man-hours/test)
64 (man-hours/test) x 30 (dollars/man-hour) = 1920 (dollars/test)

SUM:

\$2010 + \$1920 = \$4000 Total

This assumes that only one run-thru of the test will be required (probably not a good assumption)- any re-testing as a result of failure to meet design acceptance criteria will increase the total test costs accordingly. This estimate does not include the cost of using one rifle for each caliber and configuration being evaluated - you may want to add in the cost of making used rifles out of the product.

If I can be of further assistance please do not hesitate to call upon me.