

R&D PROJECT SUMMARY FOR MONTH OF JUNE 1968

TITLE: Guarded Razor Blade (Project East)

ACCOMPLISHMENTS:

1. Two types of tape were evaluated. The sprayed Teflon tape was eliminated because of poor durability, though satisfactory on the first shave. The laminated Teflon tape had good durability; no Teflon separation was found in American Safety Razor tests after seven shaves.
2. A large number of perforation patterns were tested. The optimum partition width was found to be 0.010 inch and the aperture size 0.025 - 0.040 inches.
3. Blade exposure increase was varied from 0.005 to 0.011 inches. The optimum value depended on tape thickness.
4. Four hundred feet of perforated tape was supplied to American Safety Razor for assembly machinery testing.
5. A survey of perforating processes and equipment was made and a supplier for a suitable press was found.

PROBLEMS:

In comparative shave panel tests so far, the preference was always for the regular blade. The balance between reduced nicking and increased work has not been found yet. Several individual shavers, however, gave strong preference to the guarded blade.

PLANS:

1. Laminates from a new supplier will be evaluated.
2. Final material and supplier selection will be made.
3. Best values for aperture and exposure will be established.

TIMETABLE:

The design and material selection for the guard will be made by August 15. Tape, sufficient for 500 double edge blades, will be supplied to American Safety Razor by October 1. Close contact on all design and fabrication problems will be maintained through this time with American Safety Razor.

July 15, 1968

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