stalled at the beginning and ends of each installation, these signs being in accordance with the plan.

Gate Arm Stripes

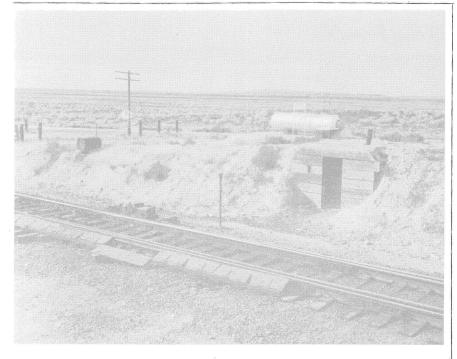
Do you use reflectorized striping on crossing gate arms? What are the advantages and/or disadvantages of this practice? Please explain.

Standard Striping Effective

By G. K. Thomas

Signal Engineer, System Atchison, Topeka & Santa Fe Topeka, Kan. The standard black and white striping of automatic crossing gate arms is very effective both by day and by night. The three red lights on the arm assist in making it especially visible at night, and it hardly seems necessary to also use reflectorized striping on the arm.

We have experimented at a few locations with the addition of reflective material over the white surfaces of the arms, and they do, of course, add to the brilliance at night. However, there has been some peeling of the strips, and in view of the frequent breakage of these arms by highway traffic, the use of reflective strips would add to main-



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tenance expense and would result in additional delay getting the gate back in service each time it is broken. All things considered, it does not appear to be necessary or worthwhile to add reflectorized striping on these gate arms.

Switch Machines for CTC

In centralized traffic control territory, do you use dual-control switch machines? Please explain why, or why not.

Standardize on Dual-Control

By R. E. TESTERMAN

Assistant Superintendent Communications & Signals St. Louis-San Francisco Springfield, Mo.

The crank-type power switch machine was used in our first CTC installations primarily on account of the cost. We have since standardized on the dual-control machines for the following reasons:

(1) During construction the dualcontrol machine can be installed to replace the old switch stand and operated as a hand-operated switch. This greatly reduces the work necessary on the day CTC is placed in service.

(2) In event of emergency or when "track and time" limits are granted for switching, train movements are expedited. This is especially true at crossover or other locations where more than one power switch movement is used. In such layouts considerable time is saved by not having to return the crank to the central telephone booth.

(3) In event of complete failure of CTC system the dual-control movements, when placed in hand operating position, provide safety equal to that of a standard switch stand. Where the crank-type movements are used, there is always the possibility that the crank may not be turned far enough to lock the switch. To protect this feature we require that such switches be spiked.

(4) Considerable time is saved in making regular inspections and tests by signal and track forces.

Use Dual and Non-Dual Control

By H. L. MOSELEY

General Signal Inspector Delaware & Hudson Albany, N. Y.

The Delaware & Hudson uses both dual and non-dual control for its power switch layouts in traffic