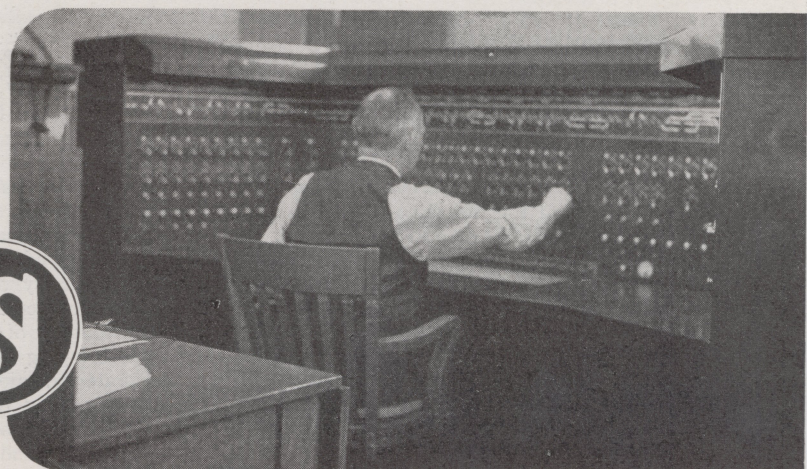
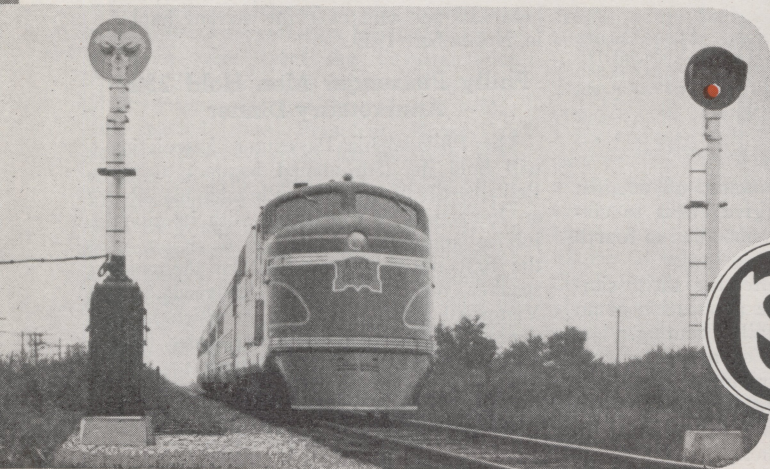


THE ADVANTAGES OF "UNION" SIGNAL SYSTEMS ARE REFLECTED IN OPERATING STATISTICS

WHILE signals were originally installed for safety purposes, and this fundamental principle has never been sacrificed, today they are equally important in facilitating train movements, and

their advantages are clearly reflected in operating statistics. How various signal systems have aided in getting trains over the road in less time and at less cost is indicated by the following facts:



AUTOMATIC BLOCK SIGNALS

THE increased safety of train operation and the operating benefits gained account for the steady increase in track mileage of automatic block signals. On twelve installations, the freight train hours saved per year ranged from 2,579 to 13,399, with from 42.0 to 157.1 track miles operated; the freight train speed increase ranged from 9 to 55 per cent, while the time saved per train ranged from 18 minutes to 4 hours and 32 minutes. In one instance the overtime hours were reduced 92 per cent. These 12 installations show an average annual return of 26.9 per cent and an average increase of train speed of 20.5 per cent. The actual dollar savings are substantial.

CENTRALIZED TRAFFIC CONTROL

C.T.C. IS ONE of the most important developments in railway signaling in that it combines all of the functions of control over traffic into a centralized system, permitting train operation by signal indication without the use of written train orders and without superiority of trains. C.T.C. practically eliminates the time element in the transmission of orders and results in more efficient dispatching. C.T.C. has postponed second tracking; made possible the handling of additional tonnage; reduced average freight running time; reduced operating costs and permitted reverting from double to single track operation. C. T. C. is a quickly self-liquidating investment.

UNION SWITCH & SIGNAL COMPANY

DISTRICT OFFICES

