



The Teletype machine used at the South Minneapolis yards is typical of the type provided by the Milwaukee on its latest installation

Installation between Chicago, La Crosse, Wis., St. Paul, Minn., and Minneapolis, facilitates transmission of manifests and thus expedites car tracing

Milwaukee Utilizes Teletype

THE Chicago, Milwaukee, St. Paul & Pacific has extended its Teletype facilities to include a new circuit between Chicago, St. Paul, Minn., and Minneapolis, via La Crosse, Wis. An ex-

isting single line Morse duplex circuit repeated at Milwaukee, Wis., was utilized for the new 421-mile circuit. New Teletype machines, each capable of receiving and sending up to 60

words a minute, were installed at La Crosse, St. Paul and Minneapolis, while a machine previously in service on other circuits was connected in at Chicago. Only one office may transmit business at one time, but all of the other three offices, if desired, may receive the business being transmitted from the sending office. Selectors are provided at all four offices with a code assigned to each individual office which starts a buzzer signal, indicating that the machine at that station should be cut in. The machine at Minneapolis is located in the yard office at South Minneapolis yards,

NO 22 MF 1 SECOND SHEET

STPAUL DEC 15 TRAIN 264 DEC 15 ,8 AM FILED 8 AM

SDW 2073	URT 85182	KEGS SEATTLE PAC FRUIT PROD CO DEC 15 PABST MILW
SDW 2074	IC 156206	LBR COLUMBIA JCT WN WEYERHAUSER CO WHOLESALE LBR MILLWORK CO DETROIT MICH MILW GT
SD 2075	FGE 10607	DR TURKEYS BENSON MINN BENSON PROD CO GENERAL PROD CO MILW
SD 2076	NP 11368	PAPER FORT FRANCES ONT M AND O PAPER CO MILW LEADER MILW
SD 2077	NP 10620	SAME
SD 2082	NP 11524	SAME CURRAN PRINTING CO ST LOUIS MO WEBSTER TPW ITS
SDW 2078	NP 93430	APPLES WEIKEL WN YAKIMA FRUIT GROWERS ASSN COOP WHOLESALE SOCIETY N Y CITY CHGO PRR
SDW 2079	MWEX 2000	SUGAR BILLINGS MONT G W SUGAR CO MARS INC GALEWOOD ILL
SDW 2080	GN 24366	LBR OKANONGAN WN E WAGER REGENT LBR SALES N Y CITY DELMAR NYC CNJ
SDW 2081	GN 23930	LBR DEER PARK WN DEER PARK LBR CO MONT WARD CO PAPINEAU ILL STOP CHGO MONT WARD CO
SD 2083	M 703236	FLOUR MPLS HIAWATHA MLG CO METZENDORF BROS PERTH AMBOY NJ BVILLE IHB NYC PR CNJ
SD 2084	M 706080	SAME WASHBURN CO KOTVIS BROS MILW

Example of Manifest Form No. 1 as typed on roll paper by Teletype machine

the one at St. Paul is in the St. Paul yard office, the machine at La Crosse is in the telegraph office in the station which is near the La Crosse yards, and the Chicago machine is in the

signees may be informed as to the location of cars in transit.

Seven manifest forms are used in the transmission of such information. These are shown in the accompanying

ing report, used by agents or yardmaster at division points, junctions and certain stations to report the passing of the symbol which represents the car as reported on Form

The image displays seven distinct railway manifest forms used for reporting car movements. Form No. 1, 'Symbol Consist Report', is a large table with columns for symbol, number, car, contents, point of origin, shipper name, consignee, final destination, and route. Form No. 2, 'Passing Report', is a smaller table for reporting cars passing stations. Form No. 3, 'Set Out Report', and Form No. 4, 'Pick Up Report', are used for reporting cars set out or picked up at stations. Form No. 5, 'On Hand Report', is used for reporting cars on hand at stations. Form No. 6, 'Request for Disposition for Foreign Cars', is a table for reporting foreign cars. Form No. 7, 'Delivery Report', is used for reporting the delivery of cars. The forms are arranged in a collage, showing their relative positions and how they are used together.

Manifest and other forms used on the Milwaukee. Information is transmitted by Teletype in the order indicated by the forms

Milwaukee's general telegraph office, in the Union Station.

Location of Cars Important

Although messages are handled, the new circuit and equipment was installed primarily to facilitate the transmission of information regarding the location of cars in trains originated, cars passing manifest stations and yards, cars set out, cars picked up, cars arrived, and cars delivered. The prompt transmission of such information is vital if car tracing, for shippers and consignees, is to be expedited. The clearing house for this type of information on the Milwaukee is the car accountant's office in Chicago. At this point, records are maintained as to the location, movement, contents, shipper, and consignee of all cars at all times. Also, manifest information is re-assembled and "broadcast" by air mail to freight agents throughout the country, so that shippers and con-

illustration. The Teletype machines are used to transmit the information in the same order as shown for a particular form. The information is typed by both the receiving and transmitting machines on continuous rolls of paper. All messages and manifests transmitted are numbered consecutively for a particular day, beginning at midnight.

Types of Manifest Forms

Manifest Form No. 1 is a symbol consist report, showing the station at which the carload was manifested, date, train number, time of departure, filing time with telegraph operator, symbol reference, car initials, number, contents, point of origin, billing received from connecting line, shipper's name, consignee, final destination and route if for a point beyond the "Milwaukee." The information for other manifest form reports is handled in a similar manner. Form No. 2 is a pass-

No. 1. Form No. 3 is a set-out report, used to report cars of freight set out. Form No. 4 is a pick-up report, used to report pick up of cars previously set out and reported on Form No. 3. Form No. 5 is an on-hand report used at originating manifest No. 1 stations to report carloads on hand or received from connecting lines, not forwarded and cause for delay. Form No. 6 is used to report the arrival, while Form No. 7 is used to report the delivery of cars. In addition to the manifest forms, other forms, such as "FCD" request for disposition of freight cars, when empty, "32" daily division cars loaded and received from foreign lines and "BI" division report of empty revenue freight cars ordered, on hand, billed, in transit are also handled by teletype.

A hectograph ribbon is used on the Chicago teletype printer to take care of multiple addresses or forms of which it is necessary to produce more than one copy.