News Briefs

MISSOURI-KANSAS-TEXAS has let a contract to Collins Radio Co. for the installation of microwave on its mainline between McAlester and Muskogee, Okla., 62 miles. In addition to the two terminals there will be three repeater stations.

UNION PACIFIC is constructing a 463-mile microwave system between Laramie, Wyo., and Salt Lake City, Utah. In addition, a 184-mile microwave system is under construction between Portland and Hinkle, Ore. These systems are in addition to a present 563-mile microwave system now in service between Omaha, Neb., and Laramie, Wyo.

DELAWARE & HUDSON will spend $250,000 in 1961 for signal improvements and installations of highway crossing protection equipment. Included in the appropriation is the installation of an additional hotbox detector.

ELGIN, JOLIET & EASTERN is installing a Motorola two-way radio system for maintenance of way supervision and coordination. Seventeen extensively transistorized Motrac radios in trucks and cars and 29 "Handie-Talkie" portable radiophones comprise the mobile portion of the network. Two 60-watt base stations—one operational and one standby—will be located in Kirk Yard, Gary, Ind. An additional base station will be used in the road's South Chicago yard operation.

MISSOURI PACIFIC's second automatic, electronic freight car classification yard at North Little Rock, Ark., was opened for service on March 20. It has 40 classification tracks, one exclusively for icing perishables, and is some two miles in length, with a capacity of 2,500 cars.

AUTOMATIC TRAIN OPERATION and the application of computers to land transportation will be featured topics of a Railroad Computer and Automation Conference, to be held June 6–7 in the Cleveland Engineering Center, Cleveland, Ohio. Sponsored by the American Institute of Electrical Engineers Land Transportation Committee, the conference will include these papers:

New York City Transit Authority Automated Trains, by R. G. Welch, NYCTA.

Opportunities for Computers in Land Transportation, by R. S. Gillette, General Electric Co.

General Principles of the Experimental Equipment Developed by the French National Railroads for Remote Controlled Train Operation, by J. C. Blumstein, French National Railroads.

Automation of Mail Handling in Railroad Terminals, by G. H. Hiner and E. H. Abbe, General Electric Co.

Recent Developments in the Operation of Unmanned Locomotives and Trains, by L. R. Allison, Union Switch & Signal Division.

Heuristic Train Dispatching, by J. L. Gable, CMStP&P.

In addition to these papers, inspection trips will be made to the Cleveland Rapid Transit System and the Chesapeake & Ohio's computer center.

GULF, MOBILE & OHIO has received ICC approval for the installation of a traffic control system in lieu of automatic block signaling on double track between Iles and Rinaker, Ill., 39 miles, in connection with the removal of portions of one main track in this territory.

CHICAGO TRANSIT AUTHORITY has ordered automatic interlocking equipment from Union Switch & Signal Division for installation at the Kimball Avenue terminal. Train movements over the three terminal tracks will be controlled from a 5-ft Style C machine located at the terminal.

TOLEDO, PEORIA & WESTERN has ordered thirty-one 64/12 Motrac railroad radios from Motorola, for use on locomotives and cabooses.

Current Publications

TOWER CHECK LIST. A microwave tower inspection and maintenance check list covers such items as the structure, guy wires, base, paint, lighting cable and fixtures, with suggestions as to what to look for, where failures might occur and how to correct them. English or Spanish editions are available. **Tower Construction Co., Dept. RSC, 2700 Hawkeye Dr., Sioux City, Ia.**

CITIZENS BAND RADIO HANDBOOK. A practical guide which tells how to choose equipment and how to obtain a license. It discusses the Citizens Radio Service, citizens band equipment and their cir-

(Please turn to page 44.)

NEWS BRIEFS

(*Continued from page 42.*)

cuits, antenna systems, fixed and mobile station installations, maintenance and repairs (including preventive maintenance), servicing adjustments and measurements for both receivers and transmitters, and operating procedures. Catalog No. CBH-1, $2.95. **Howard W. Sams & Co., Inc., Dept. RSC, Indianapolis 6, Ind.**

TYPE B RELAYS. Handbook 75, superseding Handbook 33, describes the operation, inspection, installation and maintenance of these relays. Timing and special purpose relays are included in the discussion. Circuit diagrams illustrate typical applications. **General Railway Signal Co., Dept. RSC, Rochester 2, N. Y.**

OVERLAY TRACK CIRCUITS. Development sheets D21.3004 describing the GRS device have been issued, dated February 1961. They supersede an issue of November 1956. **General Railway Signal Co., Dept. RSC, Rochester 2, N. Y.**

TRANSISTOR SUBSTITUTION. A listing of transistors suitable for direct substitution is provided in a manual called "International Transistor Substitution Guidebook," No. 276. Included are transistors of American, Japanese, British, Dutch, French, Italian, and German maufacture. The substitute transistor was selected from an analysis of all electrical characteristics. Mechanical characteristics are listed so that this factor may be considered by the user. Price $1.50. **John F. Rider Publisher, Inc., Dept. RSC, 116 West 14th St., New York, N. Y.**

PASSIVE REPEATERS, a 48-page manual, No. 161, describes the use of passive repeaters' and provides the technical data necessary to properly design passives into the microwave system. Specifications and sample calculations are included. **Microflect Co., Inc., Dept. RSC, 3450—25th St., S.E., Salem, Ore.**

Railroad Personnel

CANADIAN PACIFIC. **Howard W. Trawick,** signal engineer for the Atlantic Region, at Montreal, Que., has been appointed assistant signal engineer in the office of the chief engineer. A graduate of the University of Saskatchewan with a B.S. degree in electrical engineering, Mr. Trawick entered the service of the CPR in summer employment as a rodman in 1948. He went to Winnipeg, Man., as signal draftsman in 1949 and was transferred the following year as assistant signal supervisor at Moose Jaw, Sask. In 1956 Mr. Trawick was transferred to Montreal as assistant engineer, office of the chief engineer, and in July 1959 was promoted to regional signal engineer for the Atlantic region.

H. W. Trawick

J. T. Groth

NORTHERN PACIFIC. **J. T. Groth,** assistant signal engineer, Lines between Mandan, N. D., and Paradise, Mont., at Livingston, Mont., retired March 31. His successor is **V. L. Guthrie,** formerly signal supervisor at Missoula, Mont., who in turn has been succeeded by **R. F. Dewing.**

Mr. Groth was born March 31, 1891, at Welcome, Minn. After attending high school he completed correspondence courses in electrical engineering and railway signaling. He entered railroad service in 1912 as a signalman on the Chicago & North Western and was later a signal maintainer on the Milwaukee Road. During World War 1 he served in the U. S. Navy. Since 1924 he has been with the Northern Pacific, starting as foreman of a signal construction gang. In 1950 he became general signal supervisor at Livingston, for lines between Mandan, N. D., and Paradise, Mont. In 1954 Mr. Groth assumed full charge of the signal work in this territory as assistant signal engineer.

PENNSYLVANIA. **L. W. Hayhurst** has been appointed assistant engineer, communications and signals. **R. C. Clark,** office engineer, communications and signals, and **J. A. Moore,** supervisor, communications and signals, all at Chicago. Mr. Hayhurst was formerly supervisor C&S at Chicago, Mr. Clark signal inspector at Chicago, and Mr. Moore, supervisor C&S at Canton, Ohio.

NEW YORK CENTRAL. **Thomas R. Gibson,** formerly engineer of signals and communications of the Wabash, has been named communications engineer of the New York District, at New York. Mr. Gibson was born in St. Paul, Minn., March 6, 1924. He was graduated from the University of

(*Please turn to page 46.*)

NEWS BRIEFS

(*Continued from page 44.*)

Minnesota with the degree of Bachelor of Electrical Engineering in 1949. Mr. Gibson went to work in the communications department of the Northern Pacific in that year as an assistant equipment installer, being promoted to leading equipment repairman in 1952. In 1956 he became communications engineer of the Wabash and was subsequently appointed engineer of signals and communications.

Supply Trade News

JOHNSON RUBBER CO. Appointed the following representatives for the sale of VulcaBond rail joints: **Fred W. Holstein Co.,** Hopatcong, N. J., for the eastern part of the U. S., **W. A. Blackford Co.,** San Francisco, Calif., Pacific Coast representative, and **Western States Supply Co.,** Omaha, Neb., for the central-west area.

LENKURT ELECTRIC CO. Moved its southwestern district sales office from Kansas City, Mo., to the Southland Center Building, Dallas, Texas.

SERVO CORP. OF AMERICA. Railroad Products Division has established five district sales and service offices throughout the country. New sales engineer appointed to cover the southeastern territory is **Lennie E. Keeton,** based in Richmond, Va. He was a sales engineer for Sperry Products, Inc., prior to joining Servo Corp. Sales engineers for the other territories are **Paul Prosswimmer,** northeastern district, Hicksville, N. Y.; **Sal Campo,** western district, Los Angeles; and **Sanford Steward,** central district, Chicago. A new sales engineer for the southwestern district, at St. Louis, will be announced shortly.

T. Hollingsworth

Gerald R. White

William J. Savage

M. I. Rayner

HUBBARD & CO. **Thomas Hollingsworth,** general sales manager, has been elected vice-president in charge of sales. His headquarters will be at the company's new executive offices at 5401 W. Roosevelt Road, Chicago.

C & S PRODUCTS CO. Appointed **John T. Hill** and **William M. Rambo** sales representatives for southern California and Arizona, with office in San Gabriel, Calif. **Arthur J. Schultz** has been named to cover the territory of New York State from Albany west, with headquarters in New Hartford, N. Y.

MOTOROLA COMMUNICATIONS & ELECTRONICS INC. **Gerald R. White,** operations administrator for the microwave department, has been appointed railroad microwave representative, responsible for the design and sale of microwave radio relay systems to railroads. As a member of Motorola's microwave department since 1955, Mr. White has worked in systems and field engineering and in research and development.

THOMAS A. EDISON INDUSTRIES, Primary Battery Division. **William J. Savage,** vice-president and division manager, has retired and has been succeeded by **M. I. Rayner,** assistant division manager. **Walter E. Olson** has been appointed acting general sales manager, **Alfred W. Frank,** eastern regional manager, at Bloomfield, N. J., and **James R. Long,** western regional manager, at Chicago.

AT&T and RRs Agree

AT&T and the eight railroads in the FCC interconnection case have reached an agreement on a revised tariff. They filed a joint request with the FCC on April 24 to terminate and dismiss the case. Tariff change, according to **Telecommunications Reports,** "permits interconnection of customer-owned and telephone company facilities at both ends of a through circuit for emergency calls, and at either end, but not both, for calls related to the safety, continuity, or reliability of railroad service. . . . Tariff revision eliminates two major provisions of original filing—'grandfathering' of systems already permitted interconnection and limitation on amount of microwave." A more detailed report will be presented in our June issue.

GENERAL RAILWAY SIGNAL CO. **Hall E. Downey,** advertising manager, has been appointed sales promotion and advertising manager.

Corrections:

Circuit drawings in our April issue seem to have been plagued with gremlins, or something. Reader Melvin Rugg of Eatontown, N. J., called our attention to the error in the Overlay Track Circuit drawing on page 25. In the XR circuit, the relay contact bypassing the two track relays should have been 95XSR, instead of 95XR.

In the radio circuit shown on page 21, the lower side of the relay K302 should be connected to the dummy pin C312 instead of to terminal 11 on J411. This portion of the circuit is reprinted below. If desired, it may be cut out and pasted on top of the original drawing.

Your editors apologize for these errors, and promise to be more watchful in the future.