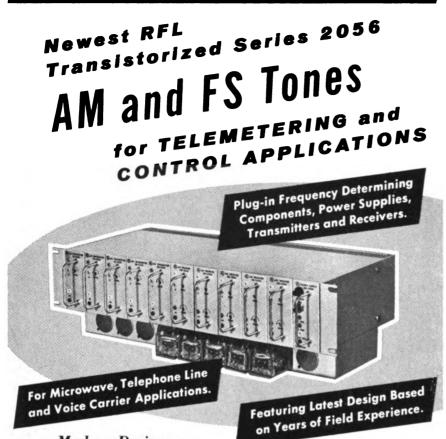
### REMOTE INSTRUMENTATION & CONTROL



### Modern Design . . . 10 Transmitters or Receivers and Power Supply in One Single Frame.

The 2056 Series of Audio tones features modern design utilizing plug-in card construction and provides equipment at a very minimum in cost with a maximum number of channels in a given space. For example, 10 AM transmitters or receivers and a common power supply are mounted in a single  $3\frac{1}{2} \times 19^{\circ\circ}$  frame. Each channel is conveniently terminated with a terminal strip at the rear of the frame. Output relays are mounted on a bracket attached underneath the main chassis frame, each relay being located directly under its respective channel.

The channel frequency determining components are also of the plugin type and are mounted directly on the channel plug-in assembly in AM units, and adjacent to plug-in assemblies on FS units. This type of design, of course, keeps spare parts requirements to a minimum, since all plug-in cards are common to all frequencies.

The 2056 Series of AM tones were designed to meet low speed tone signalling and control requirements when low noise lines and inherently low noise communication circuits as provided by microwave and voice carrier equipments are available for transmission.

The 2056 Series of FS tones are used when ultimate reliability and high speed keying is required. They can be used in circuits which are inherently noisy and which are subject to fading conditions.

The FS tones are available with either TWO or THREE frequency outputs. The former being employed in normal signalling and control circuits, whereas the latter is used in two-function single channel applications such as RAISE-OFF-LOWER, FORWARD-OFF-REVERSE.

### **RFL REPRESENTATIVES:**

ILL., MINN., 10WA, IND., WISC. W. L. Cunningham, Eimhurst, III. TEXAS, ARK., LA., OKLA. Datatroi Co., Dailas, Texas ALA., TENN., VA., N.C., S.C., GA. Dickerson Eng., Jacksonville, Fla. CALIFORNIA Luscombe Engr., Pasadena, Calif.

ORE., WASH. Hawthorne Electronics, Seattle, Wash.

CANADA Microwave Sys., Scarborough, Ont. FOREIGN Telesco International, New York SEND FOR TECH. DATA — For additional information, including application data, write or phone DE 4-3100. Demonstrations available by local representatives.



# News Briefs

SIGNALING

FCC EXAMINER JAY A. KYLE has granted an indefinite postponement of the deadline for filing proposed findings and conclusion in the telephone interconnection hearing. The deadline had been Oct. 24. The railroads and AT&T informed the FCC that the negotiations, looking toward a settlement of the case on the AT&T tariff, are continuing and expressed optimism that they will be successful.

RADIO COMMUNICATION in connection with train operations is coming in for special attention from a new committee of the Railway Labor Executives' Association. RLEA Chairman George E. Leighty says the committee will be concerned with safety and craft-jurisdiction phases of this development in train communications. He also says that dispatchers are supposed to be in charge of train movements, but that railroad officers sometimes direct movements by phone. R. C. Coutts, president of the American Train Dispatchers Association, is chairman of the committee.

ALABAMA GREAT SOUTH-ERN; CINCINNATI, NEW OR-LEANS & TEXAS PACIFIC: **GEORGIA SOUTHERN & FLOR-**IDA, and NEW ORLEANS & NORTHEASTERN have received relief from the requirements of Section 136.602 of the ICC's RS&I, to the extent that they are permitted to install dragging equipment detectors without being interconnected with automatic block signal system at certain locations, provided the system of transmitting information concerning actuation of the dragging equipment detector device by a train to a central record center, and of advising the crew of the train actuating the device, that an abnormal or dangerous condition exists by radio, as outlined in the application, is installed and maintained. The number of dragging equipment detectors to be installed, as indicated in the ICC order are: AGS-9; CNO&-TP-11; GS&F-6; and NO&NE-3. (See also RS&C, Oct. 1960, page 56).

BALTIMORE & OHIO has put in service at Cumberland, Md., a new 33-track classification yard for the handling of westbound freight traffic. In (Continued on page 48)

RAILWAY SIGNALING and COMMUNICATIONS

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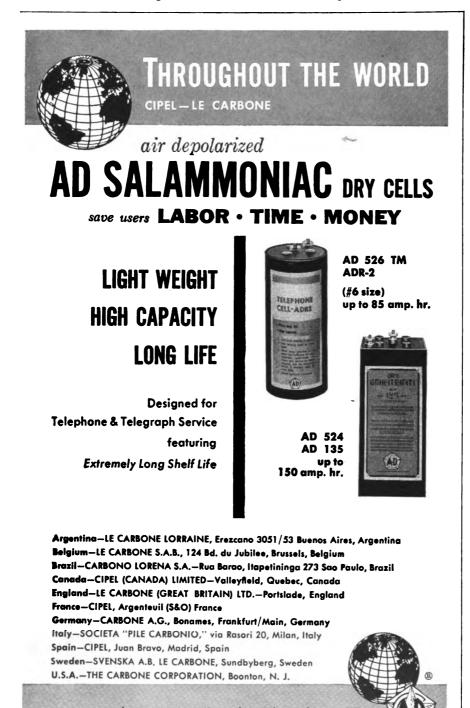
### **NEWS BRIEFS**

(Continued from page 46)

addition to automatic switching and retarder controls, the yard has an extensive communication system consisting of talk-back and paging speakers, walkie-talkies, and two-way radios on yard engines.

CANADIAN NATIONAL dedicated its new retarder classification yard at Moncton, N. B., on November 2. The new \$15 million yard features GRS Class-Matic retarder controls and automatic switching. Its 40 class tracks are capable of classifying up to 3,500 cars daily.

CHICAGO &. EASTERN ILLI-NOIS has received ICC approval to install a traffic control system on one remaining track, to be controlled from Danville, Ill., to provide for operation by signal indication in either direction, in lieu of existing automatic block signals arranged for current of traffic, on two main tracks between Danville and Woodland Jct., Ill., about 40 miles; and modifications of existing traffic control on two main tracks so as to provide for traffic con-



sales representatives throughout the world

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trol operation on one remaining trac between Woodland Jct. and Watseka Ill., about 5 miles.

LOUISVILLE & NASHVILLE Directors have authorized installatio of CTC on a 95-mile segment of mair linc between Athens, Ga., and th freight classification yard at Boyles, a an estimated cost of \$1,800,000. A present this section is double track an is controlled by automatic block sig nals. About 71 miles of the seconmainline will be removed and the re mainder converted to passing sidings a about 15-mile intervals. Each of th sidings will accommodate over 20 freight cars.

NEW YORK CENTRAL recentl dedicated its new electronic retarde classification yard at Indianapolis, Inc This Big Four yard has 55 class track with 2,270-car capacity. The \$14 mil lion yard has GRS Class-Matic re tarder and automatic switching con trols.

NORFOLK & WESTERN has or dered wayside signaling equipmen from Union Switch & Signal—Divi sion of WAB Co. to begin installation of CTC on 199 miles of track between Abilene, Va., and Princeton, W. Va This is part of a modernization pro gram on this territory which was ac quired in the consolidation of th Virginian into the N&W.

PENNSYLVANIA, according t newspaper reports, is looking for site for microwave stations in the Pitts burgh area and in the mountains d western Pennsylvania.

QUEBEC CARTIER MININ CO. has ordered CTC equipment from Union Switch & Signal Constructio Co. for installation on a new 193-mik single-track railroad, from Lake Jean nine to Port Cartier, Que. The new fa cility will have a terminal yard at ead end of the line and six intermediat passing sidings. Control will be from a 9-ft traffic control center in the terminal office at Port Cartier.

### **Trade Publications**

COMMERCIAL GLASSES. A 16 page booklet, B-83 (Rev.), which de tails properties of 32 commercia glasses, is a revised edition of Corning Glass Works' publication, "Propertie of Selected Commercial Glasses." It contains information on several new glasses as well as new sections on thermal expansion and optical properties. The booklet also covers thermal stress, heat transmission, electrical proper-(Continued on page 51)

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### **NEWS BRIEFS**

#### (Continued from page 48)

ues, corrosion resistance and viscosity data. Several charts and graphs are included, including a temperature hart for converting Fahrenheit derees to Centigrade degrees and Centgrade to Fahrenheit. Corning Glass Works, Dept. RSC, Corning, N.Y.

CONVERSION FACTORS. A Wall Chart of Conversion Factors, which contains many conversions that are difficult to locate in reference manuals, is available from Precision Equipment Co., Dept. RSC, 4401 North Ravenswood Ave., Chicago 40, III.

CUSTOM-PRODUCED GLASS. 20-page brochure, Bulletin 760, This is Kopp Glass," describes how pecial glass products are designed and roduced with the proper combinaon of properties to meet specific aplication requirements. Special secons deal with developing glass comositions for individual applications; controlling and combining the proprties of glass; engineering products with specific characteristics such as acurate and uniform colors, the right distribution of light, high physical trength and thermal shock resistance; ustom-production techniques, finishing operations, testing and inspection. Kopp Glass, Inc., Dept. RSC, Swissvale, Pa.

DIAZO MATERIALS. A six-page brochure, "New Ozafax Products," explains the features and advantages of a new line of semi-dry diazo materials for both engineering drafting room and general office copying. The new product line is interchangeable with present moist developing diazo materials. The brochure discusses paper printing speeds and weights, and the benefits of Ozalid's new Super rapid X speed papers. Ozalid Division, General Aniline & Film Corp., Dept. RSC, 65 Corliss Lane, Johnson City, N.Y.

MICROPHONES AND ELEC-TRONIC COMPONENTS. A 28page catalog, #60A, describes more than 30 microphone models, plus microphone accessories, high-fidelity components, magnetic recording heads, and replacement phono cartridges. Shure Brothers, Inc., Dept. RSC, 222 Hartrey Ave., Evanston, Ill.

**REPLACEMENT** CHART PA-PER. A new 14-page catalog of replacement strip chart lists replace-

(Continued on page 52)

# Safety in the night....

<u>Kopp Signal Lenses</u> help provide today's fast, efficient signal transmission

For over 50 years, Kopp has designed and custom-produced a wide variety of signal lenses, roundels and lantern globes. They're tough, won't warp . . . stand up to physical and thermal shock . . . have accurate, lasting colors that won't fade . . . are designed with exact beam control and dimensional uniformity . . . meet all A.A.R. standards. Available through leading manufacturers of lamps, lanterns and

Glass

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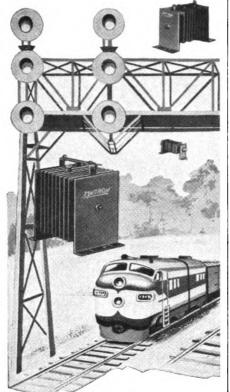
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manufacturers of lamps, lanterns and signaling equipment.

Kopp

Swissvale, Pennsylvania

## Reliable Performance





### <u>SYNTRON</u> SELENIUM RECTIFIER STACKS

 —chosen by major railway signal and communication manufacturers because of their reliable performance.

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Sales Engineers in: New York, Chicago, Los Angeles and Canada. Canadian Manufacturing Plant: Syntron (Canada) Ltd., Stoney Creek, Ontario. Export Representative: Dage Corporation, 2192 E. 44th Street, New York, N. Y. Sales Engineering Representative: Robert O. Whitesell and Associates, 6420 East Washington Street, Indianapolis 15, Indiana. Offices in Cleveland, Dayton and Cincinnati.

### **NEWS BRIEFS**

(Continued from page 51)

ment charts for all makes and models of recorders, with cross references to recorder manufacturers' model numbers. Judson Bigelow Sales Division, Techni-Rite Electronics, Inc., P. O. Box 3575-F, Providence 10, R. I.

VOLTAGE REGULATORS. Catalog 4-265 provides complete specification data for 2,020 standard magnetic voltage regulator models and offers vital information as a guide in selecting and using regulators in dc power supply design. Convenient selection of desired electrical and physical characteristics from the broad new line are shown in the catalog's large, fold-out chart. Raytheon Co., Power Supply & Voltage Regulator Operations, Dept. RSC, Keeler Ave., South Norwalk, Conn.

### **Railroad Personnel**

CANADIAN PACIFIC. Harold G. Montgomery has been appointed assistant superintendent communications at Toronto, Ont., and Donald J. Fisher inspector of communications at Winnipeg, Man., succeeding Mr. Montgomery.

CENTRAL OF GEORGIA. W. M. Whitehurst, signal engineer, has been appointed superintendent of communications and signals. D. R. House, assistant signal engineer, has been promoted to signal engineer and J. H. Walton, assistant superintendent communications, to superintendent communications. All have headquarters at Macon, Ga.

ERIE-LACKAWANNA. Frank Youngwerth, general superintendent communications and signals of the Erie, has been appointed to head the communications and signal department of the merged railroad.

LOUISVILLE & NASHVILLE. H. C. Tillery, wire chief, has been appointed to the newly created position of supervisor of the communications center at Louisville.

MILWAUKEE ROAD. W. C. Kelly, assistant to relay office supervisor—system, has been appointed relay office supervisor—system, succeeding F. T. Ross, retired.

TEXAS & PACIFIC. The position of superintendent of communications has been abolished and matters pertaining to communications have been placed under the jurisdiction of the engineering department.

### **Supply Trade News**

AMERICAN BRAKE SHOE C **Robert L. Carmichael**, district sal manager for the Railroad Produc Division at Houston, Texas, has been named New York district sales man; ger for the division.

CHESTER CABLE CORP. Ben j: min Levinson, formerly associate with The Okonite Co., has been ap pointed chief engineer of Chester Ca ble, and Henry S. Loeber, formerl with Hudson Wire Co., has bee named sales manager.

CONTINENTAL – DIAMONI FIBRE CORP. John F. Rushmor has been appointed manager, sales ac ministration, at Newark, Del. Charle A. Trusk, sales representative, ha been transferred to the company' New York district from Boston.

GENERAL ELECTRIC CO. J Ray Topper has been named produc sales manager for industrial and mili tary tubes produced by the Receiving Tube Department, at Owensboro, Ky

MOTOROLA, INC. Richard G Jones, microwave sales manager for 11 western states at Burlingame, Calif. has been promoted to manager of microwave marketing, at Chicago. His successor is Delbert G. Larson, former Motorola microwave sales representative in the Pacific Northwest. Robert L. Koehler has been added to the staff at Burlingame as a microwave specialist.

PHILCO CORP. Edward C. Buurma has been appointed northwest regional manager of the Government and Industrial Group, with headquarters at Palo Alto, Calif.

### Obituary

R. E. CLARK, supervisor of signal construction, Chesapeake & Ohio, at Huntington, W. Va., died recently. Other members of the Signal Section, AAR, who have died within the last year and not previously reported in RS&C, are as follows: F. J. ACKER-MAN, retired chief engineer, Kansas City Terminal; G. C. GODSHALL, office engineer, communications and signals, Pennsylvania, at Cleveland; and S. B. RINGGOLD, chief engineer, Mississippi Central.

MORRIS J. FOX, 82, sales representative, Carbone Corp., at Lincoln, Neb., died Oct. 10. Upon his retirement from the Burlington Lines in 1948 he was signal engineer, Lines West.

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