

NEWS BRIEFS

● **ICC SIGNAL HEARING** has been postponed from April 10 to May 7 in Washington, D.C. This Ex Parte 171 proceeding concerns proposed changes in the Commission's Rules, Standards and Instructions on signal systems (RSC July 1962, p.13).

● **SURCOM.** A nation-wide railroad communications service is in the planning stage. If implemented, it could

lead to car reporting and car accounting on a national basis.

Details of the proposal were disclosed at a recent Railway Systems & Management Association seminar in Chicago by Grant C. Vietsch, RSMA's executive director.

"We have created a vehicle, a corporation called Surface Communications, Inc.," said Mr. Vietsch. "Its symbol is SURCOM, which stands for

Shared Use of Railway Communications, and its purposes are:

- "To furnish point-to-point communications service to common carriers."
- "To perform car accounting and management advisory services relating to movement of goods and people via common carrier."

- "To engage in any management or research and development related to transport operations."

Mr. Vietsch then outlined in general terms the approach to be taken by SURCOM:

"(1) A pilot study will be begun once, using leased computer center facilities. Initial emphasis will be upon communications switching. We are in the process of writing up the proposal for TEST—Total Electronic Switching of Telecommunications. This will be one of the first ventures of SURCOM and will serve as a pilot study upon which to base increased participation by additional roads.

"(2) Coincidental with this communications switching will be studies aimed at determining system parameters and system discipline for the car-accounting service.

"(3) Once a system is established groups of related roads will be cut over to the computer center.

"(4) In its first stage of operation, the center will merely report car movement. Once each day each road subscribing to the service will receive a list of all its cars off-line and their last reported location. Further, it will be possible to interrogate the center at any time to determine the location of a specific car or container.

"(5) One of the basic tenets of SURCOM will be a continuing systems study to establish paths to be followed to better car accounting. It is not illogical to suppose that, in time, the center will be turning out per diem accounting and related statistics."

SURCOM, said Mr. Vietsch, will be capitalized on the basis of one share of stock per freight car owned. Capitalization would pay for the study program proposed. Although user charges haven't been firmly set, it has been proposed that for the car reporting service the charge might be one cent for each car reported daily.

In Mr. Vietsch's view, SURCOM would bring a quick payoff at little or no capital investment. It would lease computer center time for switching and initial program studies. Leased telephone company facilities would provide communications between the center and the railroads.

- **AUTOMATIC TRAIN** has been tested in the London subway in which a

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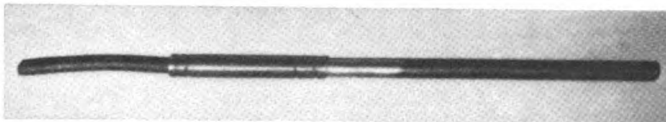
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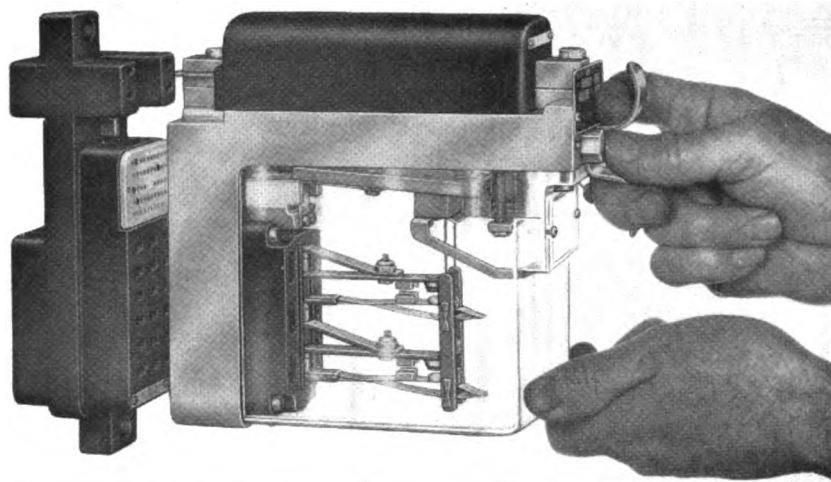
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Here are 9 new Union Plug-In Relays

PN-150SO Switch Overload Relay is standard for overload and short circuit protection of d-c switch motors. It is equivalent to OR-11 and ORP-60 relays but has a PN-150 relay housing. Three different operating ratings are available which cover practically all d-c switch machine applications. **PA-150SA Overload Relay** for a-c switch machines has an internal rectifier and slightly different contact combination. *See U.D. 287-G.*

PP-151 Magnetic Stick Relay in combination with **PN-150 BM Biased Relay** are used for control of electric switch machines. PP-151 has two silver-to-silver low resistance contacts for reversing motor circuit polarity and keeping overload relay circuits in agreement. PN-150 BM uses heavy-duty magnetic contacts to make and emergency break the motor circuit, and is capable of breaking motor current in excess of 50 amperes at 110 volts d-c. Its biased feature makes the combination self-checking. *See U.D. 287-G.*

PT-150 Thermal Relay is equivalent of TH-10 and PT-52 relays but provides longer adjustable time intervals. Improved characteristics enable one relay to cover operating times which previously required three different relays. A permanent magnet keeps the back contact closed even under vibration and gives it a snap action. *See U.D. 287-E.*

PN-150BL Biased Plug-in Light-out Relay has a half-wave copper oxide rectifier built into the relay. Calibrations are more accurate and consistent with the built-in rectifier, mounted in place of contacts 4, 5, and 6. It's available in three ratings which cover most applications for light-out protection.

See U.D. 278-F.

PN-150BH High Drop-Away Relay has a high ratio of drop-away to pick-up. It's ideal for broken rail protection on track circuits as long as 6000 feet. The double coils can be used in series or in multiple to obtain a .5- or 2-ohm relay, 1- or 4-ohm relay, 500- or 2000-ohm relay. All relays are equipped for front-of-relay testing. *See U.D. 278-D.*

PN-150BE High Efficiency Line Relay is a plug-in, biased relay. Use it where response to both polarities is not needed, or with a PN-150B or PN-250B relay when single polarity response is needed. When wired in series, the coil resistances are 60, 1000, and 2000 ohms.

See U.D. 278-D.

PN-150NE Neutral Efficient Relay can be used in the center of a circuit network to pick-up on either polarity. It has the same efficiency as DN-22A relays. A locking device holds down the armature when the relay is de-energized.

See U.D. 278-D.



New solid state inverter develops 3 times more power

The Union F-30 Inverter has a solid state circuit that's 90% efficient and has 3 times the power capabilities of previous units. The inverter delivers 250 or 325 VA at 120 volts from a 12- or 16-volt d-c power supply respectively and it's stable from -22°F. to 150°F. Frequency output range is from 50 to 100 cycles per second. The plug-in vibrator will last a long time because it operates at a fraction of its capacity.

The top plates conveniently list terminal nomenclature, instructions for connecting power supply, and voltages between terminals. For greater power requirements, connect two inverters in tandem. The F-30 Inverter is designed for standby or intermittent power supply to carrier equipment, train graphs, meters, and alternating current track circuits.

Write for U.D. 297.



WABCO

UNION SWITCH & SIGNAL DIVISION

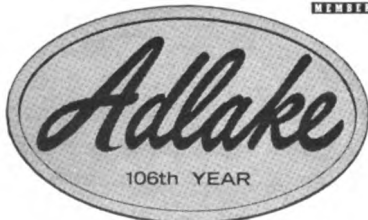
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NEWS BRIEFS

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motorman pressed a button to release the brakes and start the train, after which the automatic controls took over to run the train to the next station. Commands to the train are provided by track circuits carrying coded or varying frequencies of electrical currents. Safety circuitry and controls are included to stop the train if the track ahead is occupied.

- LEHIGH VALLEY has received ICC approval to install a traffic control system between Sayre, Pa., and Manchester, N.Y., 87 miles, in connection with the removal of portions of second main track in this area. Modifications will be made to existing interlockings and automatic block signaling on two main tracks.

- SOUTHERN has received ICC approval to install a traffic control system on sections of single and double main track between Fall, Va., and Hold, N.C., about 90 miles. The traffic control will replace automatic block signaling on two main tracks between these points.

- ILLINOIS CENTRAL and New York Central have received ICC approval to arrange for automatic approach clearing of home signals on both roads and remove the interlocking machines and mechanical interlocking appurtenances at crossings of the two roads at Robinson, Ill. and Harwood, Ind.

- NORTHERN PACIFIC has placed a \$100,000 order for 77 transistorized 64/12-volt Motrac railroad radios and several portable transistorized radio sets from Motorola Inc.

- TELPAK TARIFF initial decision may be forthcoming "within a relatively few weeks," according to *Telecommunications Reports*.

- CANADIAN NATIONAL has ordered two UR route control machines from Uniswitch Corp., subsidiary of WABCO. The machines and associated track model will control approximately 100 miles of Toronto yard access lines.

- ATLANTIC COAST LINE has placed an order with Union Switch & Signal division of WABCO for 60 sets of 2R series transistorized radios for installation on diesel locomotives.

- GREAT LAKES STEEL CORP. has ordered equipment from Union Switch & Signal division of WABCO to install

an automatic interlocking and high grade crossing protection equipment Ecorse, Mich.

- CANADIAN NATIONAL TELECOMMUNICATIONS has begun construction of a \$5 million tropospheric scatterwave communications system 5 miles long between Hay River in the northwest territories to Victoria Island in the Arctic. Only two intermediate relay stations are planned, at Snare River and Port Radium. The scatterwave system is capable of skipping distances of up to 200 miles without intermediate relay equipment. Radar beam signals with power output 1,000 watts are generated at the scatterwave sites and beamed skyward from parabolic, reflector-type antennas. The antennas are 60 ft in diameter.

- CHESAPEAKE & OHIO ordered a 15 ft TCC machine from Union Switch & Signal division of WABCO for installation at Peru, Ind. This machine will control CTC territory between Cheviot, Ohio and Griffith, Ind. 250 miles.

- E. I. DU PONT de NEMOURS CO. has ordered two sets of radio remote control equipment from Union Switch & Signal division of WABCO to equip two additional switching locomotives at one of their plants (RS Dec. 1962, p.19).

- CANADIAN PACIFIC authorized \$5 million for the 5th year's construction phase of the automatic retarder classification yard at Agincourt. On \$1.2 million expenditure for signaling in connection with this new yard; another \$1.2 million for the first year of a two-year program of CTC installation on the Broadview subdivision Manitoba.

- CANADIAN NATIONAL will install 46 miles of CTC from Carman Junction near Winnipeg, Man., to the east end of Portage la Prairie; and CTC will be installed on four subdivisions in Alberta.

- LOUISVILLE & NASHVILLE will install eight additional classification tracks at its automatic retarder yard at Atlanta, Ga. This addition to Tilford Yard will cost \$437,000. At a cost of \$105,000, the L&N will install three hotbox detectors on the K&A division and one each on the CV and Louisville divisions.

Current Publications

- LASERS & MASERS: A new book begins with a basic discussion of quantum theory. The content then logically progresses to simple explanations of the

principles behind the development of MASER (Microwave Amplification Stimulated Emission of Radiation), how these theories evolved into development of the Light MASER, or ELER (Light Amplification by Stimulated Emission of Radiation). A LASER is a special type of semiconductor which can be used to produce coherent light, an intense light-wave beam capable of cutting the hardest materials from man to man as if they were butter. Directed into space, such a beam has illuminated a small area on the moon, 240,000 miles away, and the reflected light has been detected on its return. This additional material describes all unified developments to date, and the various applications for LASERS. ABC's LASERS & MASERS, Cat. No. CP-1, Price \$1.95. Howard W. Sams Co., (CP-13).

CIRCUIT HANDBOOK. Industrial Electronic Circuits Handbook presents complete schematic diagrams, along with correlated text discussions, for more than 50 commercially-used industrial devices. Rather than approach the subject from the usual "generalized theory" viewpoint, this new book deals in modern "off-the-shelf" instrument units representative of hundreds now in use. Although basic theory is covered, it is included as an integral part of the circuit discussions themselves. The types of equipment described in this book have not been separated into chapters or categories. The category of circuits employing photocells, for example, would include the radiation detector, the radiation meter, the radiation thermometer. This same circuit, however, would also be included in the category of temperature-measuring instruments. This handbook has an index. Industrial Electronic Circuits Handbook, cat. No. IEC-1, Price \$3.95. Howard W. Sams & Co., Inc. (CP-14).

Railroad Personnel

INDIAN LACKAWANNA. Hubert A. Fry, communications supervisor, Huntington, Ind., transferred to Salamanca, N.Y., succeeding Charles R. Dick, who retired April 30.

GRAND TRUNK WESTERN. J. D. Reese, assistant superintendent inside office, appointed superintendent of communications, succeeding E. L. Grunwaldt, retired.

PENNSYLVANIA. L. E. Light, assistant supervisor communications and signals, at Lewistown, Pa., has been transferred to Wilmington, Del., in the same capacity. C. V. Rogers, assistant supervisor C&S, at Terre Haute, Ind., has been transferred in the same capacity to Huntington, Pa. L. R.

Compton, assistant supervisor C&S, replaces Mr. Rogers at Terre Haute.

● **SOUTHERN.** Samuel A. Means has been appointed chief signal and electrical inspector at Charlotte, N.C. His most recent position prior to this appointment was that of supervisor of construction S&E. A. Franklin Cox, assistant communications engineer, appointed supervisor of communications at Chattanooga, Tenn.

● **ST. LOUIS-SAN FRANCISCO.** J. S. Downs, communications engineer, appointed assistant to general superintendent communications and signals, succeeding C. L. Summers, deceased.

● **NORTHERN PACIFIC.** Kenneth M. Rue, assistant electronics engineer, appointed to the new position of telephone engineer, following the death of M. N. Zeller, electronics engineer. The position of electronics engineer has been abolished. Larry J. Grivna has been appointed assistant telephone engineer to fill the vacancy left by Mr. Rue's appointment.

● **CANADIAN NATIONAL TELECOMMUNICATIONS.** G. O. Taylor has been appointed teleprinter systems equipment engineer at Toronto.

● **CHESAPEAKE & OHIO.** J. B. Small and P. T. Brown have been appointed assistant supervisors of signals at Columbus, Ohio and Huntington, W. Va., respectively. They succeed V. C. Wales and W. M. Dunn, at Columbus and Huntington, respectively, who have retired.

Supply Trade News



Louis T. Freed



George J. Johaneck

● **GENERAL RAILWAY SIGNAL CO.** George J. Johaneck, manager of the commercial engineering department, appointed manager of rapid transit development. Vincent D. Parrish, manager of price and estimating, is appointed manager of contract and application engineering.

Louis T. Freed, general sales manager, has been appointed vice-president, sales. A native of Albia, Ia., Mr.

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This combination switch lamp and battery box turns itself on and off automatically. Battery lasts much longer—and can be changed with greater ease. Spherical lamp body resists damage as no other shape can. Ductile iron base is spring mounted to absorb shock. Sockets are furnished to fit the switch stand tips of every railroad. Unit is available in stainless or cold rolled steel. Enamelled targets. Colors as desired. For full information, call your Adlake Man or Adlake direct.



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Freed began his railway career in 1926 in the signal department of the Chicago, Burlington & Quincy and advanced through various positions to become senior circuit engineer in 1945. A year later he joined GRS as a sales engineer. He was appointed assistant resident manager at Chicago in 1954 and two years later made assistant western manager, becoming western manager in 1957. In 1961 Mr. Freed was appointed general sales manager.

Mr. Johanek joined GRS in 1929 following signal experience on Chicago & North Western and the Chicago, Burlington & Quincy and studies at the Chicago School of Engineering and Armour Institute of Technology. In 1937, he was appointed a sales engineer in the Chicago office, but he returned to the commercial department in 1942. Five years later he was appointed assistant commercial engineer, and in 1950 Mr. Johanek was promoted to commercial engineer.

Mr. Parrish, an electrical engineering graduate of Ohio State University, joined GRS in 1943 as a supervising engineer on their B-29 program. Prior to that time he had had five years' experience in the signal department of the New York Central and 10 years' experience with the United Light Engineering and Construction Corp. In 1945, he was appointed assistant group leader in the commercial department and became commercial supervising engineer in 1955. A year later he was appointed supervisor of estimating, and in 1959 was appointed manager of price and estimating.

● **UNION SWITCH & SIGNAL** division of WABCO. **Philip E. Pierce** has been appointed sales engineer with headquarters in Chicago. A native of Abingdon, Ill., Mr. Pierce graduated from Monmouth, Ill., high school and attended Monmouth College. In February 1953 he became a construction helper in the signal department of the Chicago, Burlington & Quincy. Within one year he was assigned as a draftsman in the office of the chief signal engineer, the position he held at the time of his recent employment with US&S.

● **COPPERWELD STEEL CO.** **John F. Gray** appointed sales representative assigned to Florida with headquarters in Tampa. **A. E. Roberts** has been appointed a sales representative with a territory embracing northern Illinois, upper peninsula of Michigan and most of Wisconsin. He will be headquartered in Chicago.



Vincent D. Parrish



Philip E. Pierce



A. E. Roberts



John F. Gray



William E. Chainey



Louis J. Ott

Mr. Gray has a bachelor of science degree in electrical engineering from Northeastern University, and prior to joining Copperweld he was employed by the New England Gas and Electric Association. Mr. Roberts is a mechanical engineering graduate of Swarthmore College, and formerly in the sales departments of Beryllium Corp., and the H. K. Porter Co.

● **MID-CONTROL CO.** and **Clifton H. Sass, Jr. & Associates** is now located at 388 Cornell Ave., Des Plaines, Ill.

● **SIERRA ELECTRONIC** division of Philco has appointed Simpson Enterprises of Wichita, Kan., as sales representatives for the area within southern Illinois, Kansas and Missouri. Two additional Simpson offices are at Kansas City, Kan., and Kirkwood, Mo.

● **GENERAL ELECTRIC.** **John O. Hayden** has been appointed telecommunications product planning manager at Lynchburg, Va. **David C. Pinkerton** has been named manager of engineering for GE's communication products department.

● **LOVELL-DRESSEL CO.** **R. C. Schatzman**, president, has been elected

chairman of the board of directors and chief executive officer. **Lane L.** vice-president, has been elected president.

● **TRACK SPECIALTIES CO.**, manufacturers of Trasco inert retarders, moved its executive offices to Westport, Conn. (P.O. Box 729) from 1775 Broadway, New York 19.

● **GRAYBAR ELECTRIC CO.** **J. Reine**, executive vice-president has been elected president, effective June 1, succeeding **Willard E. Henges**, who will retire May 31. **A. A. Wilson**, district manager has been appointed southern district manager, Richmond, Va. succeeding **W. E. James**; and **E. Grimes**, district sales manager promoted to Allegheny district manager, Pittsburgh, Pa.

● **MOORE ASSOCIATES, INC.** **William E. Chainey**, appointed chief applications engineer, is a graduate of the University of California, Berkeley. Following three years in the U.S. Army during which he taught electronics at the U.S. Ordnance School, he joined Lynch Communications Systems as an application engineer. Two years later in 1960, he joined Moore Associates.

● **OHIO BRASS CO.** **Louis J. Ott** vice-president, sales, has been elected executive vice-president. Mr. Ott joined the company in 1927, and was appointed advertising manager in 1930. In 1949 he was made general sales manager and promoted to vice-president, sales, in 1953.

● **JOHNSON RUBBER CO.** **Arthur E. Burnett** has been appointed general sales manager for specialty products including insulated rail joints.

● **WESTINGHOUSE AIR BRAKE CO.** **Gene R. Schaefer**, formerly product manager, mass transit, for Union Switch & Signal division, has been named director of the WABCO Mass Transit Center.

Obituaries

● **HARRY V. GREEN**, manager of telecommunications department, Atchafalaya, Topeka & Santa Fe, died April 3.

● **M. N. ZELLER**, electronics engineer, Northern Pacific, died recently.

● **C. L. SUMMERS**, assistant to general superintendent communications and signals, St. Louis-San Francisco, died recently.

● **GEORGE L. DRAFFAN**, chairman of the board of directors, Ohio Brass Co., died April 13.