

tus of the Philadelphia Fire Department. All equipment is of the latest RCA Super Carfone type for adjacent channel operation in the 150-174 megacycle band.

The Super Carfone equipment consists of a 30-watt single-unit transmitter, receiver, and power supply of sandwich construction for mounting in any location on the fire equipment. Other units of the equipment include speaker, control unit, microphone, and antenna.

This equipment has a grounded-grid RF input tube for high sensitivity, and a special filter to reduce spurious emissions by at least 100 db in the band, and all other emissions and all harmonics by at least 85 db. The new units provide great frequency stability, and only four types of tubes have been used in the entire transmitter. A special heavy dynamotor power supply is employed, and is equipped with cooling fins for high-efficiency operation.

Fire Chief John C. Cost announced that trained radio operators will be in constant contact with Station KGB-476, which will operate under the direction of Frank O. Schierff, Superintendent of Fire Alarm and Radio Systems of the Electrical Bureau.

## INDIANA

(Continued)

enough to go around — check your fellow member. R.B.J.)

The various committee appointments were read by President Glen Rogers.

Committee reports were called for as follows:

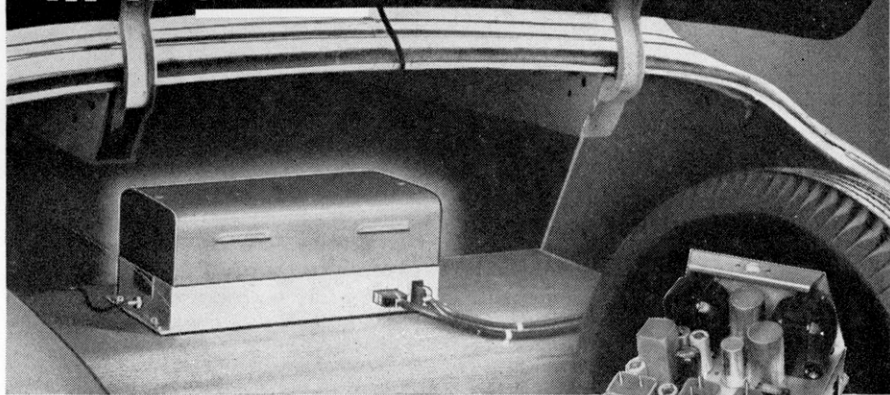
Publicity Director Evans explained a method for Indiana Chapter to obtain publicity and distributed copies of a prepared news item.

Frequency allocations were discussed by Z. E. Audritsh, especially dealing with those involving the military installations. The Frequency Allocations Committee recommends volunteer fire departments use the fire frequency. A Membership Chairman, A. J. Titus, made brief comments reference increasing the membership. (Each member is a committee of one for new members.) Engineering Committee, Roy O. Smith, Chairman, was presented with the age old problem, "How to measure frequency deviation under modulation, and how do you know your answer is correct."

Director of Communications for Indiana Civil Defense, Zellon E. Audritsh, presented to the chapter the views of the Communications Division of Indiana Civil Defense on Air Raid Warnings by means of radio. By the aid of a large

April 1951

## HERE'S TOP PERFORMANCE IN A SINGLE RADIO PACKAGE!

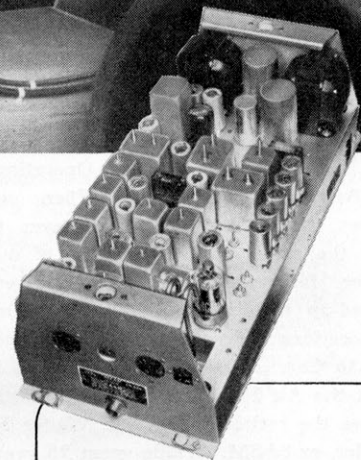




The four outstanding features for which Kaar equipment has long been noted have now been combined into a single mobile radiotelephone package that is far ahead in performance... yet competitive in price!

The Kaar RADIOPAK features ruggedness, simplicity of design, lowest battery drain, exceptional voice quality *plus* greater than ever stability and sensitivity, engineered selectivity that exceeds the standards set by FCC regulation — all in a single unit transmitter-receiver that is completely integrated for simplicity of installation, maintenance, and operation.

RADIOPAK is ideal for police, taxi, fire equipment, and trucking installations and is particularly suited for three-wheeled motorcycle use. **Don't be content with an ordinary radiotelephone system—specify RADIOPAK!**



### Kaar RADIOPAK "in a nutshell":

**FREQUENCY RANGE:** 152-174 mc  
**POWER OUTPUT:** 10-12 watts  
**BATTERY DRAIN:** Standby 6½ amps; Transmitting, 15 amps  
**DIMENSIONS & WEIGHT:** 6¾" high, 8" wide, 18⅝" long; 24 lbs.  
**STABILITY:** Better than .005% for a 50° C temperature change with standard Type E crystals  
**SPURIOUS EMISSION:** Down at least 70 db  
**SPURIOUS RESPONSE:** Down over 85 db  
**SELECTIVITY:** 100 db down at 60 kc off resonance  
**SENSITIVITY:** 20 db quieting on less than ½ microvolt of signal  
**AUDIO RESPONSE:** ±3 db from 180 to 3000 cycles

**KAAR ENGINEERING CO. • Palo Alto, California**

map, with lines drawn from the Key Point Warning Centers to the Sub-Warning Centers in each of the various counties, it was explained how, by the use of the inter-system frequency of 155.37 mc the various cities and counties could be alerted by radio and be standing by for the telephone confirmation or in the case of wire failure, the complete warning.

On motion by A. J. Titus, seconded by Roy O. Smith and passed by the Chapter, "Indiana APCO urges that the vast Indiana Police Radio Network be used for disseminating air raid warnings as a supplement to other means of

notification on all tests and alerts."

Meeting adjourned at 5:20 p.m.

R. B. JONES, Sec'y-Treas.

## Help Wanted

We need several men at once and more this spring to maintain two-way radio systems. Permanent opportunity with fast-growing company with good pay and best working conditions. Men needed now in Maryland, West Virginia, District of Columbia and Ohio. Contact L. H. "Larry" Arnold, P. O. Box 7005, Richmond, Va.