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December, 1960

Our Purpose

To foster the development and progress of the art of Public-Safety Communication and Inter-communication, and to promote through example and active effort, greater co-operation in the correlation of the work and activities of the several town, city, county, state and Federal law enforcement agencies, and of the communication units thereof, as well as to promote harmonious co-operation between those of the United States of America and territories thereof, and other such agencies of law enforcement and public-safety communication upon the North American Continent, to the end that the safety of human lives, the protection of property, and the general welfare of all peoples concerned may be benefited to the highest degree.

To aid and assist in the development of channels, methods, systems, and all other media for the rapid and accurate collection, exchange, and dissemination of information relating to crime and criminals, emergencies, and other vitally important information of public-safety and emergency nature.

To further, by active effort and example, the co-operation among and between this Corporation and the International Association of Chiefs of Police, the Federal Bureau of Investigation, the United States Secret Service, the Office of Civil and Defense Mobilization and the Federal Communications Commission.

Cover Picture

The 1961 Conference City has seven miles of bathing beach. Forty-four miles in the distance is Santiago Peak, location of the CPRA intersystem repeater operated by control points in 33 municipal and county police systems. The Lafayette Hotel, 1961 Conference site, is two blocks to left of the upper arm of the Horse-shoe pier.

THE BULLETIN

The APCO *Bulletin* is published in Detroit, Michigan, as the official magazine of The Associated Police Communication Officers, Inc. Contributions of news and views are invited from all police communication officers, whether or not members of the Association. Manufacturers and distributors of police communication equipment, whether or not they are *Bulletin* advertisers, are urged to send the Editor information on developments applicable to the improvement of police communications.

CPRA

PETITION FCC TO REMOVE DEVELOPMENTAL STATUS FROM 15 KC POLICE SPLITS

The November meeting was held on November 18, at Lakewood, California. Prior to the regular meeting the Frequency and Engineering Committee met in joint session to discuss and make recommendations in regard to frequency requests. The actions proposed are as follows: 59-36, 45-66 mc, County of Orange Police, approved.

60-20, one 150 mc frequency Police, base and mobile, high gain antenna, 60 feet, 60 watts ERP. R. A. Howard reported interference on 15 kc offset operation, recommendations to hold over for possibility of better frequency.

60-25, one 150 mc frequency for State of California Disaster Office, Local Government. Held over pending allocations of additional frequencies from Docket 13754.

60-30, one 150 mc frequency, Culver City, Local Government. Also held over for Docket 13754.

60-32, one 150 mc frequency, County of Riverside Police, base and mobile, high gain antenna, 60 feet above ground, 250 watts ERP. Base station at Mount Davis, Cactus, Block Rock and Box Springs Mountain. Recommendation that Engineering Committee study interference to Los Angeles Police Department receivers from use of 15 kc split at Box Springs.

60-33, one 150 mc frequency, City of Glendale Police, base and mobile, Isoplane antenna 18 feet above ground elevation 2456 feet on Mount Thom, 60 watts. Held over pending further study.

60-38, 153.860 mc, City of West Covina, Local Government, high gain antenna 40 feet above ground, 60 watts ERP. Report of test by C. N. Bradley of Inglewood, presently operating on this frequency, that some nuisance interference can be expected but that the frequency can be used and he therefore concurs. Action approved.

60-48, one 150 mc frequency, County of San Bernadino Police, to be used at Little Mountain, Skyland Peak and Redlands, high gain antenna, 250 watts ERP. Recommendation by Committee of 15 kc split resulted in objections by County of San Bernadino because of developmental status. County advised CPRA is

filing petition with FCC requesting rule making to remove developmental status. In addition, engineering study will be made on the feasibility of using frequency 15 kc offset from County of Los Angeles Police mobile channel.

60-50, 154.860 mc, Redondo Beach Police, again continued pending report from other cities in this group all presently using 155.61 mc.

60-51, 153.860 mc, City of Pomona Local Government, high gain antenna 40 feet high, 60 watts ERP, shared with West Covina, approved.

At approximately 10:30, President Calvert called the regular meeting to order. The recommendations of the Frequency Co-ordinating Committee were read and approved by vote of the membership. It was then proposed that the Frequency and Engineering Committees meet in the future at 9:30 a.m. with those representatives having immediate interest in pending frequency matters. Other members will be welcome to listen to the discussion. Decisions of the members on these matters would then become a part of the general session and the meeting would go immediately into general business of the association without further frequency matters.

At the completion of a favorable vote on this action, President Calvert called for the report of the Engineering Committee. Chairman Les Walker reported that the Committee had prepared a petition to the Commission to remove the developmental status from the 15 kc Police splits and that this petition had been delivered to President Calvert for his signature and forwarded to the Commission. Walker then referred to a separate petition prepared by Brooking requesting that the Commission eliminate Section 10.255 (h) (20) and

Section 10.305 (g) (11) in that these Sections shall not be applicable to new frequencies in Police and Fire Services where they are located wholly between frequencies of the same Service and that co-ordination for these new frequencies shall be obtained under 10.8 of the Commission's rules. Calvert indicated that National APCO may file a similar petition. Max Elliott indicated that IMSA may also file. Les Walker moved and Eddie Simon seconded adoption of this petition which carried unanimously.

Eddie Simon read a letter from the State of California to Al Keith regarding a swap of frequencies. Docket No. 13273 provides for frequencies that eliminates the need for a swap.

Bob Brooking read letters to APCO regarding "Geographical Plan" and "Need for Frequencies," and putting of State frequencies to use. Reference Docket No. 12473.

Tony Gain presented a comprehensive report on split channel tests under controlled conditions regarding feasibility of 15 mc offset operation. After a lengthy report he concludes that 15 kc offset operation within the 40 mile contour is possible with good equipment with the utmost in "technical excellence" in maintenance; however, he suggests that further tests may be necessary as a check on the validity of his report.

At 11:45 a.m. the meeting adjourned for lunch, during which the following Commercial members were introduced: Lloyd Dodge of Sylvania, who picked up the tab for the luncheon of the previous meeting, thereby the sum of \$113.00 collected was deposited in our treasury; Advance Electronics; Mobile Radio; Pacific Telephone; Sam Coombs of RCA, who commented on greater eligibility for

(Continued Page 19)



Vice-President: Winston A. DeLong, Illinois State Police, Effingham; Louis E. Dechant, St. Clair County and Merlin L. Jensen, Illinois State Police, Rock Island.

Sergeant-at-Arms: Michael F. Faulkner, Highland Park PD and William J. Cling, Worth PD.

Executive Committee Members: Frank W. McLaughlin, Chicago PD; Robert J. Hajek, Middlebury PD; James B. Donohue, Illinois State Police, Elgin; Robert B. Cooper, Illinois State Police, Pontiac; Roland E. Rolf, Lake Forest PD, and Harold G. Wise, E. St. Louis PD.

The proposed revisions to the Illinois Chapter Constitution were finalized and approved by those present, and will be placed on the ballot to be voted on along with the election of officers.

Mr. Barnes of the Wisconsin Chapter told the group of the interference they have been receiving from certain Illinois stations, and requested closer coordination between the two chapters in order to avoid this type of interference in the future. This cooperation between adjacent states is encouraged by the Illinois Chapter, and Mr. Barnes' suggestions were appreciated.

The meeting adjourned at 11:20 p. m. and reconvened at the bar shortly thereafter. It was decided not to publish the minutes of this last meeting.

OTTO RHOADES, *Sec'y-Treas.*

CPRA

(Continued)

microwave; Bill Kellogg and seven of his crew of Motorola; Frank O'Brien of Hoffman Company.

Don C. Bright of Hoffman gave a very interesting talk on an emergency call system for freeways, using a digital code system on 73 mc, capacity of 10,000 boxes per receiver, battery operated and recharged by solar cells.

The next meeting will be the 16th of December at the Disneyland Hotel. Nomination and election for officers for the ensuing year will take place then.

Les Walker continued with his Engineering Committee report on Docket No. 13754 and No. 13273 and suggested that comments be filed by December 31, 1960, about the completion of all assignments of splits on all assignable channels in the 150 mc band. Bill Whiting said we had no choice but to file. Bob Brooking suggested that we side with FCC or propose that 15 kc splits be used to provide a block of 11 frequencies for their expansion.

Bill Whiting spoke on the inadvisability of doling out frequencies by our committees on a first come first served

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December, 1960



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basis, as this is not in the interest of good engineering.

Bill also mentioned the trend should be to "get off mountains and use microwave to tie in repeaters at lower level." This met with other views by Tony Gain and Harvey Platt in some facets. Coded squelch was also touched on as a partial solution to multi-use of co-channels. Max Elliott moved and Tony Gain seconded that we support Les Walker's petition. This carried unanimously.

Les Walker indicated that there may be splitting of low bands. Bob Brooking said this is an international issue because of foreign skips and opposed low band

splits for this reason.

Tom Pinkston reported for the Teletype Committee on State Teletype Specifications. Bill Whiting offered comments on specifications and the Peace Officers also are to submit their needs to determine specifications.

Max Elliott's report for the Fire Committee on the mutual aid frequencies of 45.88 mc and 154.28 mc indicates a need for clarification. Fire Departments using other frequencies for mutual aid communications must vacate these frequencies by 1963.

Tony Gain presented a report on Radio Teletype. Tony wants FCC to provide 3 kc band-width for radiotelegraph channels to allow radio teletype operation. Brooking commented that it might be possible to employ the new Westrex narrow frequency shift system in order to remain within the presently authorized 100 cycle band-width.

Foster Strong reported on the prospects for the National APCO Conference in Long Beach, August 1-2-3-4, 1961. He also presented a format for dissemination of information concerning the Conference.

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NEW MEXICO

(Continued)

phone courtesy, and is suitable for showing to any organization or business. After the film, the Operating Procedure Committee again assembled and finished tearing apart, so to speak, a few more items and messages.

The business session of the Association started at 2:00 p.m. Reading of minutes of the last meeting was waived as they had been previously published in the APCO *Bulletin*. The following new members were voted on and accepted into the Association: Jess Liles, Farmington PD; Larry Showalter, Motorola of Roswell; Ruben Gonzalez, Roswell PD; Jerry Bell, Roswell PD; Harlon Nifong, Carlsbad SO; R. J. McCool, Mesilla Park SP; Doug Palmquist, FAA, Los Angeles, Calif.; Bob Spain, Motorola, Houston; and Bob Francis, Motorola of Albuquerque.

The Treasurer's report showed a cash balance of \$108.40 with all bills paid except convention tabs for this meeting. The report showed the Association had eighty-five paid members as of October 1. The group approved payment of bills by the Treasurer. No old or new business was brought up, so drawings for more door prizes were held. Sgt. Dick (where's my two bucks) McCool won the grand prize of a transistor radio, donated by the R and R Wholesale Supply of Roswell. S. J. Smith, owner of Clines Corners, and an Associate Member of the Association, donated a beautiful pair of Indian bracelets and an expensive bolero tie. The bracelets were won by Aultna Hawthorn, Artesia PD, and the tie by Mel Holguin of the University Park PD.

Upon invitation of Lt. Neete of Albuquerque, the next meeting will be held in Albuquerque in January or February.

The Association was indeed fortunate in securing a display of closed circuit

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Manufacturers

Have you considered the potential of the APCO Bulletin as an advertising medium for your product?

Through the Bulletin you will reach a majority of the public-safety communications systems.

The Bulletin is read by people who are responsible for the installation and maintenance of our public-safety communications systems.