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PHILIP G. LOUCKS, Managing Director.

September 26, 1931

IMPORTANT BUT NOT SERIOUS

One of the more important but less serious questions to be definitely settled at the Ninth Annual Convention of the National Association of Broadcasters at Detroit, Michigan, October 26, 27 and 28 is: Who is the best golfer?

The question became important during the Summer months but diminished in seriousness as Western and Eastern and Northern and Southern broadcasters met on the links throughout the country.

These contests have definitely proved that some broadcasters are good golfers and that some golfers are good broadcasters. Again, they have shown that what the industry needs badly is a golf champion.

So the National Association of Broadcasters will offer a silver loving cup to the winner of the 1931 NAB golf tournament which will be held Sunday, October 25, the day preceding the opening of the Convention at Detroit.

The tournament will not be limited to golfers. It will be open alike to those who can play and to those who think they can.

Details of the tournament will be given in subsequent Bulletins.

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RENEWALS GRANTED

At its sessions during the current week, the Commission granted renewal of license applications for the regular period to the following stations: KFBB, Great Falls, Montana; KFOX, Long Beach, Calif.; KFSG, Los Angeles, Calif.; KVOA, Tucson, Ariz.; WFBN, Indianapolis, Ind.; WREN, Lawrence, Kans.; WSBT, South Bend, Ind.; KGU, Honolulu, T. H.; WAAM, Newark, N. J.; WAAT, Jersey City, N. J.; WXYZ, Detroit, Mich.; KFQD, Anchorage, Alaska; and KOB, State College, New Mexico.

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TEMPORARY LICENSES ISSUED

During the current week the Commission issued temporary licenses to the following stations, because of failure to comply with G. O. #105: KTW, Seattle, Wash.; WLB-WGMS, Minneapolis, Minn., and WRHM, Minneapolis, Minnesota.

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5KW APPLICATIONS RULED OUT

The application of station KGW, Portland, Oregon, requesting authority to increase operating power from 1 KW to 5 KW on 620 KC was found to be in violation of the Commission's regulation governing maximum night power on regional frequencies, at the hearing called on this application before Examiner Pratt this week. The motion seeking dismissal of the application was made by the Commission counsel immediately after the case had been opened by the attorney for the applicant. After argument, the examiner permitted the applicant to continue with the case, with the understanding that the record was only for the purpose of appeal, as the application was in violation of the Commission's ruling and could not be considered as being in proper order.

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COPYRIGHT COMMITTEE MEETING

The special copyright committee of the National Association of Broadcasters and a committee from the American Society of Composers, Authors and Publishers held the first of a series of conferences this week in New York for the purpose of discussing the music licensee problem. A second meeting will be held within the next few weeks during which discussions will be continued.

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BRINKLEY SUES NEWSPAPER

Dr. John R. Brinkley, former owner of KFKB at Milford, Kansas, has filed a suit for \$5,000,000 damages against the Kansas City Star, alleging that the newspaper entered into a conspiracy with the American Medical Association for the purpose of securing revocation of his broadcasting license.

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LABOR GETS FULL TIME

The Commission this week granted to Station WCFL, Chicago Federation of Labor, full time on its frequency of 970 KC. The 970 channel is a cleared channel assigned to the Fifth Zone and is licensed to KJR, Seattle, Washington, recently acquired by the National Broadcasting Company. The Labor station has been operating as a limited time station and the additional night time was granted on an experimental basis with the consent of the National Broadcasting Company.

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COMMERCIAL COMMITTEE MEETING

The Commercial Committee of the National Association of Broadcasters met in New York this week for the purpose of adding finishing touches to its report for the Annual Meeting at Detroit, October 26, 27 and 28. The standard market and radio station data folder was submitted and approved subject to such additions as might be suggested by the American Association of Advertising Agencies. Consideration was also given to standardization of contract provisions and to the subject of agency recognition and credit information. The Radio Committee of the A.A.A.A. were guests of the NAB at a luncheon held at Hotel Astor, New York.

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STATION LICENSE REVOKED

The license of station WHDL, Tupper Lake, New York, was revoked without a hearing by the Commission this week. This station was formerly operated by Tupper Lake Broadcasting Company and was assigned to the local frequency of 1420 KC with power of 10 watts and daylight operation. The franchise was withdrawn, owing to the many violations of Commission regulations which have been charged to the station, and for which no satisfactory explanations have been received.

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ACTION ON EXAMINER'S REPORTS

Reversing the report of its examiner report 193, the Commission denied the application of stations WCBA and WSAW, Allentown, Pa., requesting authority to increase power from 250 watts to 500 watts on the frequency of 1440 kc.

In denying the request of Shasta Electric Co., Klamath Falls, Oregon., seeking authority to erect a new station on 1210 kc with 100 watts power and unlimited time, the Commission found that a sufficient showing had not been made to indicate the need for the additional service proposed by the applicant. (Report 194)

In case of The Empire Broadcast Corporation, Fredericksburg, Va., requesting authority to erect special service stations on short wave frequencies, the Commission denied the applications, sustaining the report of the Examiner. (Report 196). The Commission denied the request of station WCOA, Pensacola asking to increase power to 1 KW sustaining the examiner (Report 200)

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COMMISSION HEARS ARGUMENTS

Oral arguments in two cases involving increased operating hours for station WCKY, Covington, Ky, and a change in transmitter location and increase in day power for station WREN, Lawrence, Kansas, were presented to the full Commission this week. The Covington station is now assigned four-sevenths time on 1490 kc, with power of 5 KW sharing time with stations WCHI and WJAZ both located in the Chicago area and each being allocated one-seventh time. The applicant has requested its facilities be increased to unlimited time. Station WREN in its pending application seeks authority to move the transmitter 22 miles east of Lawrence and increase day power from 1 KW to $2\frac{1}{2}$ KW.

At the hearing before the examiner, the respondents argued that the application be denied, since the granting of authority to move would further increase the quota of an over-quota state and be contrary to G. O. 102. The examiner recommended, Report No. 186, that the motion be granted. Counsel for the applicant argued that the Commission never intended that a strict mathematical interpretation be placed upon the application of this General Order. It was also urged that this regulation is not a "strict formula" but is "a guide for applicants and for the Commission in its efforts to ultimately attain the approximate equalization of facilities called for by the Davis Amendment." In questioning counsel for the applicant, Commissioner Robinson, speaking for the Commission, made the following statements pertaining to the applicability of the much discussed General Order:

"You are discussing now G. O. 102, which is an application of the mind of the Commission, to carry out the Davis Amendment. - - - The question comes merely whether G. O. 102 should be construed as the Davis Amendment should be construed, or whether it shall be construed strictly as the Davis Amendment was originally construed."

Later during the argument on the application of station WREN, Commissioner Robinson further amplified this statement by saying that the order "was nothing but the promulgation of an interpretation of the Davis Amendment as fully as we could, with some slight exceptions controlled by other elements."

Counsel for the respondents urged the Commission to adhere strictly to the terms of the order, stating that the entire matter should be considered from a national viewpoint, and not in any sense from purely local application.

The application of station WREN to move the transmitter and increase day power was vigorously opposed by counsel for Kansas City stations, since the granting of the request would locate the transmitter 17 miles from the center of that metropolitan area. The examiner (Report No. 183) recommended denial of the request of the Kansas station, on the ground that it would move the present good service area of the station in an easterly direction into an area that is now properly served and away from an area that is under-quota and is now entitled to the service that it receives from this applicant station.

During argument in this case, Judge Robinson commented on the weight that the Commission should give to an examiner's opinion in the case of uncontradicted evidence. The examiner was compared to a juror by the Commissioner, inferring that the examiner in the case of uncontradicted evidence should be the judge of the credibility of witnesses as a juror is. This point was raised by Judge

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COMMISSION HEARS ARGUMENTS (Continued)

Robinson in questioning counsel for the applicant who disagreed with some of the findings of the examiner in the report to the Commission.

Oral arguments will be held this morning in the matter of the renewal of license application of station KGEF, Los Angeles, Calif. now licensed in the name of Trinity Methodist Church of which Rev. "Bob" Shuler is the pastor. The oral argument on the renewal of license of station WEVD, New York City, will also be presented before the Commission at this time. Station WEVD has been recommended for denial of license by the examiner in Report No. 176.

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EXAMINERS RECOMMEND DENIALS

Denial of the request of station WAAT, Bremer Broadcasting Corporation, Jersey City, N. J. for authority to change frequency to 930 kc, and increase operating hours to unlimited time was recommended this week by Examiner Walker, Report No. 253. According to the report, the granting of the application would not be in the public interest as the frequency requested is a Canadian-shared channel and operation at Jersey City with the power sought would result in interference at the Canadian border. The further consideration was that interference would result to other stations on this frequency reducing their present service areas considerably.

The application of station WJAZ, Zenith Radio Corporation, Mount Prospect, Ill. for renewal of license was recommended for denial as in cases of default, Report No. 254, proposed by Examiner Walker. The applicant made no appearance at the hearing, nor was notice of desire to be heard, as provided by the regulations, filed within proper time.

Concluding the recommendation with the statement "on the whole the evidence developed at the hearing seems inadequate to show whether or not the advantage to the public possible from the proposed change would out-weigh the disadvantages," Examiner Hyde, Report No. 255, proposes denial of the application of station WCBM, Baltimore, Md. seeking authority to change frequency from 1370 to 1210 kc. No increase in power or hours of operation was involved. The original application was filed in March, 1930. In May of that year, the Commission recommended that a license be issued as requested by the applicant. Subsequently a protest was filed by station WFBR, Baltimore, operating on 1270 kc. On the request of this station, the United States District Court for Maryland entered an order restraining station WCBM from operating on 1210 kc until station WFBR had been given a hearing.

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MATCHED CRYSTAL TESTS EXTENDED

Apparently satisfying the technical experts of the Commission that the result of experimentation with the use of matched crystals on 1430 kc and synchronous programs were satisfactory, the Commission this week granted special authorization to station WHP, Harrisburg, Pa.; WCAH, Columbus, Ohio; WOKO, Albany, N. Y.; and WHEC-WABO, Rochester, N. Y. to continue further operation with the provision that all stations conducting the experiment must maintain the "assigned frequency within fifty cycles plus or minus" of 1430 kc. The continuation of the experiment was subject to the stay order granted April 4, 1931, by the District of Columbia Court of Appeals in the case of the Rines Hotel Company v. F R C.

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NEW MILEAGE TABLES

The Commission today (Saturday, September 26) made public new tables showing the average night and day separation between broadcast stations recommended by the Engineering Division of the Commission. The new tables are applicable only where it is shown that equipment is installed which is capable of frequency maintenance within the 50 cycle tolerance. The tables follow:

AVERAGE NIGHT SEPARATION BETWEEN BROADCAST STATIONS RECOMMENDED BY ENGINEERING DIVISION, FEDERAL RADIO COMMISSION BASED ON FREQUENCY MAINTENANCE OF \pm 50 CYCLES.*

| Frequency Difference in Kilocycles | | | | | | | | | | | | | |
|---|-----|-------|-----|------|----------|------|--------|------------------|------|-------|-------|-------|--|
| POWER | | 50 | 100 | 250 | 500 | 1 KW | 2.5 KW | 5 KW | 5 KW | 10 KW | 25 KW | 50 KW | |
| | | Local | | | Regional | | | :High Power Reg: | | Clear | | | |
| Local | (0 | 140 | 200 | - | - | - | - | - | - | - | - | - | |
| | (10 | 40 | 52 | 106 | 144 | 196 | 302 | 400 | 444 | 522 | 617 | 697 | |
| | (20 | 18 | 22 | 39 | 52 | 71 | 107 | 147 | 162 | 197 | 232 | 257 | |
| | (30 | 12 | 13 | 31 | 38 | 46 | 60 | 72 | 98 | 120 | 145 | 165 | |
| | (40 | 9 | 10 | 28 | 35 | 43 | 57 | 69 | 95 | 117 | 142 | 162 | |
| 50 W. | (0 | 200 | 200 | 250 | - | - | - | - | - | - | - | - | |
| | (10 | 52 | 55 | 109 | 147 | 199 | 305 | 403 | 447 | 525 | 620 | 700 | |
| | (20 | 22 | 25 | 42 | 55 | 74 | 110 | 150 | 165 | 200 | 235 | 260 | |
| | (30 | 13 | 16 | 32 | 39 | 47 | 61 | 73 | 99 | 121 | 146 | 166 | |
| | (40 | 10 | 13 | 29 | 36 | 44 | 58 | 70 | 96 | 118 | 143 | 163 | |
| 100 W. | (0 | 200 | 200 | 250 | - | - | - | - | - | - | - | - | |
| | (10 | 52 | 55 | 109 | 147 | 199 | 305 | 403 | 447 | 525 | 620 | 700 | |
| | (20 | 22 | 25 | 42 | 55 | 74 | 110 | 150 | 165 | 200 | 235 | 260 | |
| | (30 | 13 | 16 | 32 | 39 | 47 | 61 | 73 | 99 | 121 | 146 | 166 | |
| | (40 | 10 | 13 | 29 | 36 | 44 | 58 | 70 | 96 | 118 | 143 | 163 | |
| 26(1) | (0 | 200 | 200 | 250 | - | - | - | - | - | - | - | - | |
| | (10 | 52 | 55 | 109 | 147 | 199 | 305 | 403 | 447 | 525 | 620 | 700 | |
| | (20 | 22 | 25 | 42 | 55 | 74 | 110 | 150 | 165 | 200 | 235 | 260 | |
| | (30 | 13 | 16 | 32 | 39 | 47 | 61 | 73 | 99 | 121 | 146 | 166 | |
| | (40 | 10 | 13 | 29 | 36 | 44 | 58 | 70 | 96 | 118 | 143 | 163 | |
| Regional | (0 | - | - | 560 | 770 | 1050 | - | - | - | - | - | - | |
| | (10 | 106 | 109 | 125 | 163 | 215 | 321 | 419 | 463 | 541 | 636 | 716 | |
| | (20 | 39 | 42 | 58 | 71 | 90 | 126 | 166 | 181 | 216 | 251 | 281 | |
| | (30 | 31 | 32 | 39 | 45 | 54 | 68 | 84 | 106 | 128 | 153 | 173 | |
| | (40 | 28 | 29 | 33 | 40 | 48 | 62 | 74 | 100 | 122 | 147 | 167 | |
| 250 W. | (0 | - | - | 560 | 770 | 1050 | - | - | - | - | - | - | |
| | (10 | 106 | 109 | 125 | 163 | 215 | 321 | 419 | 463 | 541 | 636 | 716 | |
| | (20 | 39 | 42 | 58 | 71 | 90 | 126 | 166 | 181 | 216 | 251 | 281 | |
| | (30 | 31 | 32 | 39 | 45 | 54 | 68 | 84 | 106 | 128 | 153 | 173 | |
| | (40 | 28 | 29 | 33 | 40 | 48 | 62 | 74 | 100 | 122 | 147 | 167 | |
| 26(2) | (0 | - | - | 560 | 770 | 1050 | - | - | - | - | - | - | |
| | (10 | 106 | 109 | 125 | 163 | 215 | 321 | 419 | 463 | 541 | 636 | 716 | |
| | (20 | 39 | 42 | 58 | 71 | 90 | 126 | 166 | 181 | 216 | 251 | 281 | |
| | (30 | 31 | 32 | 39 | 45 | 54 | 68 | 84 | 106 | 128 | 153 | 173 | |
| | (40 | 28 | 29 | 33 | 40 | 48 | 62 | 74 | 100 | 122 | 147 | 167 | |
| 500 W. | (0 | - | - | 770 | 770 | 1050 | - | - | - | - | - | - | |
| | (10 | 144 | 147 | 163 | 170 | 222 | 328 | 426 | 470 | 548 | 643 | 723 | |
| | (20 | 52 | 55 | 71 | 78 | 97 | 133 | 173 | 188 | 223 | 258 | 288 | |
| | (30 | 38 | 39 | 45 | 52 | 60 | 74 | 91 | 112 | 134 | 159 | 179 | |
| | (40 | 35 | 36 | 40 | 43 | 51 | 65 | 77 | 103 | 125 | 150 | 170 | |
| 33(2) | (0 | - | - | 770 | 770 | 1050 | - | - | - | - | - | - | |
| | (10 | 144 | 147 | 163 | 170 | 222 | 328 | 426 | 470 | 548 | 643 | 723 | |
| | (20 | 52 | 55 | 71 | 78 | 97 | 133 | 173 | 188 | 223 | 258 | 288 | |
| | (30 | 38 | 39 | 45 | 52 | 60 | 74 | 91 | 112 | 134 | 159 | 179 | |
| | (40 | 35 | 36 | 40 | 43 | 51 | 65 | 77 | 103 | 125 | 150 | 170 | |
| 1 KW | (0 | - | - | 1050 | 1050 | 1050 | - | - | - | - | - | - | |
| | (10 | 196 | 199 | 215 | 222 | 230 | 336 | 434 | 478 | 556 | 651 | 731 | |
| | (20 | 71 | 74 | 90 | 97 | 105 | 141 | 181 | 196 | 231 | 265 | 291 | |
| | (30 | 46 | 47 | 54 | 60 | 67 | 82 | 99 | 119 | 141 | 166 | 186 | |
| | (40 | 43 | 44 | 48 | 51 | 54 | 68 | 80 | 106 | 128 | 153 | 173 | |
| 41(2) | (0 | - | - | 1050 | 1050 | 1050 | - | - | - | - | - | - | |
| | (10 | 196 | 199 | 215 | 222 | 230 | 336 | 434 | 478 | 556 | 651 | 731 | |
| | (20 | 71 | 74 | 90 | 97 | 105 | 141 | 181 | 196 | 231 | 265 | 291 | |
| | (30 | 46 | 47 | 54 | 60 | 67 | 82 | 99 | 119 | 141 | 166 | 186 | |
| | (40 | 43 | 44 | 48 | 51 | 54 | 68 | 80 | 106 | 128 | 153 | 173 | |
| High Power Regional 2.5 KW | (0 | - | - | - | - | - | 1500 | 1950 | - | - | - | - | |
| | (10 | 302 | 305 | 321 | 428 | 336 | 350 | 448 | 492 | 570 | 665 | 745 | |
| | (20 | 107 | 110 | 126 | 133 | 141 | 155 | 195 | 210 | 245 | 280 | 305 | |
| | (30 | 60 | 61 | 68 | 74 | 82 | 96 | 113 | 134 | 156 | 181 | 201 | |
| | (40 | 57 | 58 | 62 | 65 | 68 | 75 | 87 | 113 | 135 | 160 | 180 | |
| 55 | (0 | - | - | - | - | - | 1500 | 1950 | - | - | - | - | |
| | (10 | 302 | 305 | 321 | 428 | 336 | 350 | 448 | 492 | 570 | 665 | 745 | |
| | (20 | 107 | 110 | 126 | 133 | 141 | 155 | 195 | 210 | 245 | 280 | 305 | |
| | (30 | 60 | 61 | 68 | 74 | 82 | 96 | 113 | 134 | 156 | 181 | 201 | |
| | (40 | 57 | 58 | 62 | 65 | 68 | 75 | 87 | 113 | 135 | 160 | 180 | |

Frequency
Difference
in
Kilocycles

| POWER | | 50 | 100 | : 250 | 500 | 1 KW | : 2.5 K | 5 KW | : 5 KW | 10 KW | 25 KW | 50 KW |
|--------|-----|-------|-----|-------|----------|------|---------|-----------------|--------|-------|-------|-------|
| | | Local | | : | Regional | | : | High Power Reg: | | Clear | | |
| | (0 | - | - | - | - | - | 1950 | 1950 | - | - | - | - |
| | (10 | 400 | 403 | 419 | 426 | 434 | 448 | 460 | 504 | 582 | 677 | 757 |
| 5 KW | (20 | 147 | 150 | 166 | 173 | 181 | 195 | 207 | 222 | 257 | 292 | 317 |
| | (30 | 72 | 73 | 84 | 91 | 99 | 113 | 125 | 151 | 175 | 198 | 218 |
| 67(3) | (40 | 69 | 70 | 74 | 77 | 80 | 87 | 96 | 122 | 144 | 169 | 189 |
| Clear | (0 | - | - | - | - | - | - | - | - | - | - | - |
| | (10 | 444 | 447 | 463 | 470 | 478 | 492 | 504 | 530 | 608 | 703 | 783 |
| 5 KW | (20 | 162 | 165 | 181 | 188 | 196 | 210 | 222 | 248 | 283 | 318 | 343 |
| | (30 | 98 | 99 | 106 | 112 | 119 | 134 | 151 | 158 | 180 | 205 | 225 |
| 93(4) | (40 | 95 | 96 | 100 | 103 | 106 | 113 | 122 | 126 | 148 | 173 | 193 |
| | (0 | - | - | - | - | - | - | - | - | - | - | - |
| | (10 | 522 | 525 | 541 | 548 | 556 | 570 | 582 | 608 | 630 | 725 | 805 |
| 10 KW | (20 | 197 | 200 | 216 | 223 | 231 | 245 | 257 | 283 | 305 | 340 | 365 |
| | (30 | 120 | 121 | 128 | 134 | 141 | 156 | 175 | 180 | 192 | 217 | 237 |
| 115(4) | (40 | 117 | 118 | 122 | 125 | 128 | 135 | 144 | 148 | 154 | 179 | 199 |
| | (0 | - | - | - | - | - | - | - | - | - | - | - |
| | (10 | 617 | 620 | 636 | 643 | 651 | 665 | 677 | 703 | 725 | 750 | 830 |
| 25 KW | (20 | 232 | 235 | 251 | 258 | 265 | 280 | 292 | 318 | 340 | 365 | 390 |
| | (30 | 145 | 146 | 153 | 159 | 166 | 181 | 193 | 205 | 217 | 232 | 252 |
| 140(4) | (40 | 142 | 143 | 147 | 150 | 153 | 160 | 169 | 173 | 179 | 186 | 206 |
| | (0 | - | - | - | - | - | - | - | - | - | - | - |
| | (10 | 697 | 700 | 716 | 723 | 731 | 745 | 757 | 783 | 805 | 830 | 850 |
| 50 KW | (20 | 257 | 260 | 281 | 288 | 291 | 305 | 317 | 343 | 365 | 390 | 410 |
| | (30 | 165 | 166 | 173 | 179 | 186 | 201 | 218 | 225 | 237 | 252 | 260 |
| 160 | (40 | 162 | 163 | 167 | 170 | 173 | 180 | 189 | 193 | 199 | 206 | 210 |

* These separations are calculated to minimize objectionable interference in the good service areas of stations about 90 per cent of the time approximately as follows:

- (1) 50 W. to 100 W. Local Channel, 2 millivolts, 7 to 10 miles
- (2) 250 W. to 1000 W. Regional Channel, 1 millivolt, 26 to 40 miles
- (3) 5 KW to 10 KW High Power Regional, 1 millivolt, 65 to 80 miles
- (4) 5 KW to 50 KW Clear Channel, 0.5 millivolt, 93 to 160 miles.

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AVERAGE MINIMUM SEPARATION BETWEEN BROADCAST STATIONS
RECOMMENDED BY ENGINEERING DIVISION, FEDERAL RADIO COMMISSION
BASED ON FREQUENCY INTERFERENCE OF ± 50 CYCLES.*

Frequency
Difference
in
Kilocycles

| POWER | | 50 | 100 | 250 | 500 | 1 K | 2.5 K | 5 K | 5 K | 10 K | 25 K | 50 K |
|---------------------------------|-----|-------|-----|----------|-----|-------------------|-------|-------|-----|------|------|------|
| | | Local | | Regional | | : High Power Reg: | | Clear | | | | |
| Local | (0 | 95 | 120 | 155 | 190 | 240 | 285 | 315 | 315 | 380 | 450 | 520 |
| | (10 | 37 | 47 | 82 | 100 | 120 | 157 | 187 | 197 | 222 | 242 | 257 |
| | (20 | 18 | 22 | 38 | 48 | 59 | 80 | 101 | 109 | 126 | 151 | 171 |
| | (30 | 12 | 15 | 31 | 38 | 46 | 60 | 72 | 98 | 120 | 145 | 165 |
| | (40 | 9 | 12 | 28 | 35 | 43 | 57 | 69 | 95 | 117 | 142 | 162 |
| 50 W. | (0 | 120 | 120 | 155 | 190 | 240 | 285 | 315 | 315 | 380 | 450 | 520 |
| | (10 | 47 | 50 | 85 | 103 | 123 | 160 | 190 | 200 | 225 | 245 | 260 |
| | (20 | 22 | 25 | 41 | 51 | 62 | 83 | 104 | 112 | 130 | 156 | 175 |
| | (30 | 15 | 16 | 32 | 39 | 47 | 61 | 73 | 99 | 122 | 146 | 166 |
| | (40 | 12 | 13 | 29 | 36 | 44 | 58 | 69 | 96 | 118 | 143 | 163 |
| 100 W. | (0 | 155 | 155 | 250 | 260 | 310 | 380 | 430 | 430 | 490 | 580 | 660 |
| | (10 | 82 | 85 | 101 | 119 | 139 | 176 | 206 | 216 | 241 | 265 | 276 |
| | (20 | 38 | 41 | 57 | 67 | 78 | 99 | 120 | 128 | 146 | 171 | 191 |
| | (30 | 31 | 32 | 39 | 46 | 54 | 68 | 80 | 106 | 128 | 153 | 173 |
| | (40 | 28 | 29 | 31 | 40 | 48 | 62 | 74 | 100 | 122 | 147 | 167 |
| 250 W. | (0 | 190 | 190 | 260 | 260 | 310 | 380 | 430 | 430 | 490 | 580 | 660 |
| | (10 | 100 | 103 | 119 | 126 | 146 | 183 | 213 | 223 | 248 | 268 | 283 |
| | (20 | 48 | 51 | 67 | 74 | 85 | 106 | 127 | 135 | 156 | 181 | 201 |
| | (30 | 38 | 39 | 46 | 51 | 59 | 73 | 85 | 111 | 133 | 158 | 178 |
| | (40 | 35 | 36 | 40 | 43 | 51 | 55 | 77 | 103 | 125 | 150 | 170 |
| 500 W. | (0 | 240 | 240 | 310 | 310 | 310 | 380 | 430 | 430 | 490 | 580 | 660 |
| | (10 | 120 | 123 | 139 | 146 | 154 | 191 | 221 | 231 | 256 | 276 | 291 |
| | (20 | 59 | 62 | 78 | 85 | 93 | 114 | 135 | 145 | 167 | 192 | 212 |
| | (30 | 46 | 47 | 54 | 59 | 66 | 80 | 92 | 118 | 140 | 165 | 185 |
| | (40 | 43 | 44 | 48 | 51 | 54 | 68 | 80 | 106 | 128 | 153 | 173 |
| 1 K | (0 | 285 | 285 | 380 | 380 | 380 | 380 | 430 | 490 | 490 | 580 | 660 |
| | (10 | 157 | 160 | 176 | 183 | 191 | 205 | 235 | 245 | 270 | 290 | 310 |
| | (20 | 80 | 83 | 99 | 106 | 114 | 128 | 149 | 157 | 188 | 213 | 233 |
| | (30 | 60 | 61 | 68 | 73 | 80 | 92 | 104 | 130 | 152 | 177 | 197 |
| | (40 | 57 | 58 | 62 | 65 | 68 | 75 | 87 | 113 | 135 | 160 | 180 |
| High Power Regional 2.5 K | (0 | 315 | 315 | 430 | 430 | 430 | 430 | 430 | 560 | 560 | 580 | 660 |
| | (10 | 187 | 190 | 206 | 213 | 221 | 235 | 247 | 273 | 295 | 320 | 340 |
| | (20 | 101 | 104 | 120 | 127 | 135 | 149 | 161 | 187 | 209 | 234 | 254 |
| | (30 | 72 | 73 | 80 | 85 | 92 | 104 | 116 | 142 | 164 | 189 | 209 |
| | (40 | 69 | 69 | 74 | 77 | 80 | 87 | 95 | 121 | 143 | 168 | 188 |
| 5 K | (0 | 315 | 315 | 430 | 430 | 430 | 430 | 430 | 560 | 560 | 580 | 660 |
| | (10 | 187 | 190 | 206 | 213 | 221 | 235 | 247 | 273 | 295 | 320 | 340 |
| | (20 | 101 | 104 | 120 | 127 | 135 | 149 | 161 | 187 | 209 | 234 | 254 |
| | (30 | 72 | 73 | 80 | 85 | 92 | 104 | 116 | 142 | 164 | 189 | 209 |
| | (40 | 69 | 69 | 74 | 77 | 80 | 87 | 95 | 121 | 143 | 168 | 188 |
| 67(3) | (0 | 315 | 315 | 430 | 430 | 430 | 430 | 430 | 560 | 560 | 580 | 660 |
| | (10 | 187 | 190 | 206 | 213 | 221 | 235 | 247 | 273 | 295 | 320 | 340 |
| | (20 | 101 | 104 | 120 | 127 | 135 | 149 | 161 | 187 | 209 | 234 | 254 |
| | (30 | 72 | 73 | 80 | 85 | 92 | 104 | 116 | 142 | 164 | 189 | 209 |
| | (40 | 69 | 69 | 74 | 77 | 80 | 87 | 95 | 121 | 143 | 168 | 188 |

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Frequency
Difference
in
Kilocycles

| POWER | | 50 | 100 | : 250 | 500 | 1 KW | : 2.5 KW | 5 KW | : 5 KW | 10 KW | 25 KW | 50 KW |
|--------|-----|-------|-----|-------|----------|------|-------------------|------|--------|-------|-------|-------|
| | | Local | | | Regional | | : High Power Reg: | | | Clear | | |
| Clear | (0 | 315 | 315 | 430 | 430 | 430 | 490 | 560 | 560 | 620 | 710 | 810 |
| | (10 | 197 | 200 | 216 | 223 | 231 | 245 | 273 | 283 | 308 | 338 | 350 |
| 5 KW | (20 | 109 | 112 | 128 | 135 | 145 | 157 | 187 | 195 | 217 | 242 | 262 |
| | (30 | 98 | 99 | 106 | 111 | 118 | 130 | 142 | 147 | 169 | 194 | 214 |
| 93(4) | (40 | 95 | 96 | 100 | 103 | 106 | 113 | 121 | 124 | 146 | 171 | 191 |
| | (0 | 380 | 380 | 490 | 490 | 490 | 490 | 560 | 620 | 620 | 710 | 810 |
| | (10 | 222 | 225 | 241 | 248 | 256 | 270 | 295 | 308 | 330 | 355 | 375 |
| 10 KW | (20 | 126 | 130 | 146 | 156 | 167 | 188 | 209 | 217 | 232 | 270 | 277 |
| | (30 | 120 | 122 | 128 | 133 | 140 | 152 | 164 | 169 | 179 | 211 | 224 |
| 115(4) | (40 | 117 | 118 | 122 | 125 | 128 | 135 | 143 | 146 | 151 | 176 | 196 |
| | (0 | 450 | 450 | 580 | 580 | 580 | 580 | 580 | 710 | 710 | 710 | 810 |
| | (10 | 242 | 245 | 265 | 268 | 276 | 290 | 320 | 338 | 355 | 375 | 395 |
| 25 KW | (20 | 151 | 156 | 171 | 181 | 192 | 213 | 234 | 242 | 270 | 270 | 290 |
| | (30 | 145 | 146 | 153 | 158 | 165 | 177 | 189 | 194 | 211 | 212 | 231 |
| 140(4) | (40 | 142 | 143 | 147 | 150 | 153 | 160 | 168 | 171 | 176 | 181 | 201 |
| | (0 | 520 | 520 | 660 | 660 | 660 | 660 | 660 | 810 | 810 | 810 | 810 |
| | (10 | 257 | 260 | 276 | 283 | 291 | 310 | 340 | 350 | 375 | 395 | 410 |
| 50 KW | (20 | 171 | 175 | 191 | 201 | 212 | 233 | 254 | 262 | 277 | 290 | 315 |
| | (30 | 165 | 166 | 173 | 178 | 185 | 197 | 209 | 214 | 224 | 231 | 236 |
| 160(4) | (40 | 162 | 163 | 167 | 170 | 173 | 180 | 188 | 191 | 196 | 201 | 205 |

* These separations are calculated to minimize objectionable interference in the good service areas of stations about 90 per cent of the time approximately as follows:

- (1) 50 W. to 250 W. Local Channel, 2 millivolts, 7 to 15 miles
- (2) 250 W. to 2.5 KW Regional Channel, 1 millivolt, 26 to 55 miles
- (3) 5 KW to 10 KW, High Power Regional Channel, 1 millivolt, 65 to 80 miles
- (4) 5 KW to 50 KW, Clear Channel, 0.5 millivolt, 93 to 160 miles.

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NEW STATION DENIED

The application of John H. Dolan, Boston, Mass. requesting authority to erect a new station on 1370 kc to operate unlimited time was denied by the Commission, sustaining the examiner (Report 215) and holding the applicant had failed to show satisfactory financial responsibility.

The Commission also granted the television application of the Chicago Federation of Labor, upholding the report of Examiner Pratt (Report 225). The station would operate on the band 2750 to 2850 kc with power of 500 W. and unlimited time.

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September 26, 1931

APPLICATIONS GRANTED

The following applications were granted by the Commission at its sessions during the current week:

| <u>CALL</u> | <u>NAME OF APPLICANT</u> | <u>NATURE OF GRANT</u> |
|--------------------|--|---|
| <u>SECOND ZONE</u> | | |
| WHAS | The Courier-Journal Company Louisville, Kentucky | Granted authority to use auxiliary transmitter until September 26 while testing new equipment. |
| WFDF | Frank D. Fallain Flint, Michigan | Granted authority to suspend operation on Saturday, September 26, 1931. |
| <u>THIRD ZONE</u> | | |
| WRBJ | Hattiesburg Broadcasting Co. Hattiesburg, Mississippi | Granted C. P. move transmitter locally; install new equipment; increase power 100 W. and hours to unlimited time. |
| WRBJ | Hattiesburg Broadcasting Co. Hattiesburg, Mississippi | Granted extension of authority to use 10 watt transmitter for 90 days until completion C. P. |
| <u>FOURTH ZONE</u> | | |
| KFAB | KFAB Broadcasting Company Lincoln, Nebraska | Granted authority install automatic frequency control. |
| <u>FIFTH ZONE</u> | | |
| KFPY | Symons Broadcasting Company Spokane, Washington | Granted C. P. move transmitter to point 1 mile north of Spokane city limits; use temporary equipment during move and operate with power of 135 watts. |
| KUJ | KUJ, Incorporated Walla Walla, Washington | Granted C. P. make changes in equipment; conform to G. O. 111, 115 and 116. |
| KFQD | Anchorage Radio Club, Inc. Anchorage, Alaska | Granted Mod. C. P. to extend completion date to 11/9/31. |

September 26, 1931

HEARING CALENDAR

The following hearings are scheduled for the week commencing Monday, September 28, 1931. All hearings commence at 10 a. m.

MONDAY, September 28, 1931

| | | | | | |
|--------------|------|---|-------|---------|----------------|
| Docket #1264 | KFJI | KFJI Broadcasters Inc. Klamath Falls, Oregon | C. P. | 1210 kc | 100 W. |
| | | | | | Unlimited time |

(Request authority to move transmitter
and studio)

Present Assignment: 1370 kc 100 W.
Unlimited time

TUESDAY, September 29, 1931

| | | | | | |
|--------------|------|---|-----------|---------|----------------|
| Docket #1233 | WABI | Pine Tree Broadcasting Bangor, Maine | Ren. Lic. | 1200 kc | 100 W. |
| | | | | | Unlimited time |

| | | | | | |
|--------------|-----|------------------------------------|-------|---------|---------|
| Docket #1267 | NEW | John W. Lieuallen Moscow, Idaho | C. P. | 1420 kc | 100 W. |
| | | | | | Daytime |

| | | | | | |
|--------------|------|--|-----------|---------|-----------|
| Docket #1283 | KFPY | Symons Broadcasting Co. Spokane, Washington | Mod. Lic. | 1220 kc | 1 KW |
| | | | | | Unlimited |

Present Assignment: 1340 kc 1 KW
Unlimited

| | | | | | |
|--------------|------|---|-----------|---------|---------|
| Docket #1318 | K7SC | State College of Wash. Pullman, Washington | Ren. Lic. | 1220 kc | 1 KW |
| | | | | | 2 KW LS |

Shares with KITW

THURSDAY, October 1, 1931

| | | | | | |
|--------------|-----|--|-----------|--------|---------|
| Docket #1316 | KMA | May Seed & Nursery Co. Shenandoah, Iowa | Mod. Lic. | 710 kc | 750 W. |
| | | | | | Daytime |

Present Assignment: 930 kc 500 W.
1 KW LS

Shares with KGBZ

September 26, 1931

HEARING CALENDAR (Continued)

FRIDAY, October 2, 1931

| | | | |
|--------------|------|--|--|
| Docket #1268 | WPG | WPG Broadcasting Corp. Atlantic City, N. J. | Ren. Lic. 1100 kc 5 KW Shares with WLWL |
| Docket #1304 | WLWL | Missionary Society of St. Paul the Apostle New York, N. Y. | Ren. Lic. 1100 kc 5 KW Shares with WPG |

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APPLICATIONS RETURNED

During the current week the Commission returned the following applications as they did not conform to the rules and regulations of the Commission:

| | | | |
|------------|---|------|--|
| 1-MP-B-249 | Cherry & Webb Broadcasting Co. Providence, Rhode Island | WPRO | Mod. C. P. to move studio locally and to make changes in equipment. (Application out of order.) |
| 1-P-B-1753 | Melvin M. Burtis Syracuse, New York | NEW | C. P. erect new station, 1500 kc, 100 watts, 250 watts, LS, unlimited time. (Applicant did not comply with request for further information). |
| 2-P-B-1994 | C. F. Schiessler and M. E. Stephens d/b as Home Cut Glass & China Co. Carbondale, Pennsylvania | WNBW | C. P. to install new equipment and decrease power to $7\frac{1}{2}$ watts. (Returned at request of applicant.) |

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SIMULTANEOUS DAY OPERATION EXTENDED

A group of six stations operating on three regional frequencies were authorized by the Commission this week to continue simultaneous experimental daytime operation until November 1, pending formal action by the Commission on the applications of the stations involved for modification of license. The following stations were affected: Stations WJBK, Highland Park, Mich. and WIBM, Jackson, Mich. now assigned to 1370 kc with 100 watts power; Stations WKBH, La Crosse, Wis. and KSO, Clarinda, Iowa, operating on 1380 kc with 1 KW and 500 watts power respectively and Stations WTAQ, Eau Claire, Wis. and KSCJ, Sioux City, Iowa, on 1330 kc with 1 KW power.

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September 26, 1931

APPLICATIONS SET FOR HEARING

The following applications were ordered designated for hearing by the Commission at its sessions during the current week:

SECOND ZONE

| | | |
|-----|---|------------------------------------|
| NEW | Arthur Liebacher, Philadelphia, Pennsylvania | C. P. visula Broadcasting Service. |
|-----|---|------------------------------------|

THIRD ZONE

| | | |
|-----|-------------------------------|--|
| NEW | W. G. Jasper, Paris, Texas | C. P. new station 1370 kc; 50 Watts share with station KFJZ. |
|-----|-------------------------------|--|

| | | |
|-----|-------------------------------------|---|
| NEW | W. G. Jasper, Muskogee, Oklahoma | C. P. 1310 kc; 50 Watts; share with KFXR; also to use port. To test location. |
|-----|-------------------------------------|---|

| | | |
|------|---------------------------------------|---|
| KGKB | Eagle Publishing Co., Tyler, Texas | Cons. vol. assign. To East Texas Broadcasting Co. |
|------|---------------------------------------|---|

FIFTH ZONE

| | | |
|-----|--|---|
| NEW | Merle F. Jewell & Merinda C. Jewell Hood River, Oregon | Request C. P. for new station to operate on 1310 kc, with 50 W and share with KMED. |
|-----|--|---|

| | | |
|------|---|---|
| KFWB | Warner Bros. Brdcstg. Corp., Hollywood, California | Requests C. P. to make changes in equipment incr. daytime power to $2\frac{1}{2}$ KW, and incr. max. rated power from 1KW to $2\frac{1}{2}$ KW. |
|------|---|---|

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RENEWALS DESIGNATED FOR HEARING

During the current week the Commission designated for hearing applications for renewal of license received from the following stations: KABC, San Antonio, Texas; KFPM, Greenville, Texas; KGFK, Moorehead, Minn.; KGEX, Pierre, S. Dak.; KGKX, Sandpoint, Idaho; KSCJ, Sioux City, Iowa; KTSL, Shreveport, La.; WCOH, Yonkers, N. Y.; WGBB, Freeport, N. Y.; WHBC, Canton, Ohio; WMRJ, Jamaica, N. Y.; WROL, Knoxville, Tenn.; WTAQ, Eau Claire, Wisc.; WLCI, Ithaca, N. Y.; KGKB, Tyler, Texas.

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LICENSE APPLICATIONS GRANTED

During the current week the Commission granted applications for license covering previously authorized construction permits to the following stations: WMBQ, Brooklyn, New York; WBAK, Harrisburg, Pa.; KSO, Clarinda, Iowa.

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September 26, 1931

APPLICATIONS DISMISSED

During the current week the following applications were dismissed at the request of the applicants:

| <u>FRC FILE</u> | <u>CALL</u> | <u>NAME OF APPLICANT</u> | <u>NATURE OF APPLICATION</u> |
|-----------------|-------------|---|---|
| 4-PB-2209 | KSTP | National Battery Brdgc Corp. St. Paul, Minnesota | C. P. 1460 kc; 10 KW plus 15 KW experimental. |
| 4-MLB-844 | KSTP | National Battery Brdgc Corp. St. Paul, Minnesota | Mod. Lic. 1460 kc; 10 KW plus 15 KW experimental |
| 4-MLB-868 | WLBC | Donald A. Burton Muncie, Indiana | Mod. Lic. increase hours un- limited on 1310 kc. |
| 5-PB-2000 | KGA | Northwest Brdgc System Spokane, Washington | C. P. 900 kc; 1 KW, $2\frac{1}{2}$ KW LS. |
| 5-PB-2275 | NEW | Intermountain Broadcasters Pocatello, Idaho | C. P. 900 kc; 250 watts. |

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APPLICATIONS DENIED

During the current week the Commission denied the following applications, as the applicants had failed to enter appearances within the time specified in General Order 93:

| <u>FRC FILE</u> | <u>CALL</u> | <u>NAME OF APPLICANT</u> | <u>NATURE OF REQUEST</u> |
|-----------------|-------------|--|--|
| 5-PB-1959 | NEW | Dispatch Publishing Co. Roswell, New Mexico | C. P. new station 1500 kc; 100 W.; unlimited. |
| 5-PB-2001 | NEW | Inland Empire Broadcast- casting Corp. Moscow, Idaho | C. P. 1420 kc; 100 W.; share with KGKX |
| 5-PB-1629 | NEW | Evening Herald & Morning News Klamath Falls, Oregon | C. P. new station 1210 kc; 100 W.; 7 hours daily. |

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COMMISSION REQUESTS RENEWAL

During the current week the Commission directed the Secretary to request station KMED, Medford, Oregon, to file renewal of license application with the Supervisor of Radio before October 10, 1931.

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September 26, 1931

APPLICATIONS RECEIVED

During the current week the following applications were received at the Commission, requesting authority to erect new stations or make changes in present assignments which may involve the status of existing stations:

| <u>FRC FILE</u> | <u>CALL</u> | <u>NAME OF APPLICANT</u> | <u>NATURE OF APPLICATION</u> |
|--------------------|-------------|--|--|
| <u>SECOND ZONE</u> | | | |
| 2-PB-2316 | WFIW | WFIW, Incorporated Hopkinsville, Kentucky | C. P. resubmitted install new equipment, increase power to 5 KW. |
| 2-MLB-877 | WFIW | WFIW, Incorporated Hopkinsville, Kentucky | Mod. Lic. increase power to 5 KW. |

The applicant station is now licensed to use 1 KW power on 940 kc. The granting of this application would seem to work a violation of G. O. 40, since the maximum night power authorized for use on regional channels by that regulation is 1 KW. Two other stations now operating on 940 kc have requested an increase to 5 KW and the hearing date has been designated. The Second Zone is under-quota; Kentucky is due 7.50 and assigned 7.62 units.

| | | | |
|-----------|------|---|---|
| 2-ALB-384 | WKJC | Kirk Johnson & Company Lancaster, Pennsylvania | Voluntary assignment of license to Lancaster Broadcasting Service, Inc. |
|-----------|------|---|---|

| <u>THIRD ZONE</u> | | | |
|-------------------|------|--|---|
| 3-MPB-252 | WRBQ | J. Pat Scully Greenville, Mississippi | Mod. C. P. extend completion date to October 15, 1931. |
| 3-MLB-884 | KTSA | Lone Star Broadcasting Co. San Antonio, Texas | Mod. Lic. increase power from 1 KW, 2 KW LS to 1 KW, 2½ KW LS on 1290 kc. |

The granting of this application would not increase the quota units to the state of Texas. The station is now charged with the same quota value as though it were operating with the requested day power. The station is now licensed to share time with station KFUL, Galveston, Texas.

| | | | |
|-----------|------|---|---|
| 3-PB-2341 | KGKL | KGKL, Incorporated San Angelo, Texas | C. P. install new equipment; change frequency from 1370 to 970 kc and increase power to 1 KW. |
|-----------|------|---|---|

The frequency sought by this applicant is now assigned to the Fifth Zone under

APPLICATIONS RECEIVED (Continued)

| <u>FRC</u> | <u>FILE</u> | <u>CALL</u> | <u>NAME OF APPLICANT</u> | <u>NATURE OF APPLICATION</u> |
|------------|-------------|-------------|--------------------------|------------------------------|
|------------|-------------|-------------|--------------------------|------------------------------|

THIRD ZONE (Continued)

the terms of G. O. 40. Station KJR, Seattle, Wash. is now licensed to operate on this assignment. Station WCFL, Chicago, Ill. has recently been granted authority to operate experimentally, unlimited time, on this frequency with 1500 watts. The present applicant seeks unlimited use of the frequency. The Third Zone is over-quota; Texas is due 16.22; and is assigned 22.77 units.

| | | | |
|-----------|------|---|---|
| 3-MPB-254 | WCOA | City of Pensacola Pensacola, Florida | Mod. C. P. to extend commencement and completion date to 1/1/32 and 2/1/32, respectively. |
| 3-PB-2342 | WIS | South Carolina Broadcasting Company Columbia, South Carolina | C. P. to change equipment; increase day power from 1 KW to 2 $\frac{1}{2}$ KW. |

The applicant now operates on an unlimited time assignment on 590 kc with 500 watts night power and 1 KW LS. The Third Zone is over-quota; South Carolina is due 4.83 and is assigned 1.70 units. The granting of this application would increase the quota 0.17 unit.

FOURTH ZONE

| | | | |
|-----------|------|---|---|
| 4-MLB-872 | KFBI | The Farmers & Bankers Life Insurance Company Milford, Kansas | Mod. Lic. increase power from 5 KW to 10 KW and increase hours of operation from limited time under G. O. 48 to limited time plus one additional hour under G. O. 48. Facilities of station WIAS requested. |
|-----------|------|---|---|

The applicant station is assigned to operate on 1050 kc. This frequency is assigned to station KNX, Los Angeles, Calif. which operates unlimited time. The distance from Milford to Los Angeles is approximately 1200 miles. The applicant requests the facilities of station WIAS, operated by Iowa Broadcasting Company, Ottumwa, Iowa, on 1420 kc with power of 100 watts. This station is charged .2 unit.

FIFTH ZONE

(Next Page)

September 26, 1931

APPLICATIONS RECEIVED (Concluded)

| <u>FRC</u> | <u>FILE</u> | <u>CALL</u> | <u>NAME OF APPLICANT</u> | <u>NATURE OF APPLICATION</u> |
|-------------------|-------------|-------------|---|---|
| <u>FIFTH ZONE</u> | | | | |
| 5-PB-2332 | KSEI | | KSEI Broadcasting Ass'n Pocatello, Idaho | C. P. amended to request name of applicant be changed to Radio Service Corporation. |
| 5-PB-2320 | KGVO | | Mosby's Inc. Missoula, Montana | C. P. amended to request facilities of station KXA. |

The facilities requested are now assigned to station KXA, American Radio Telephone Company, Seattle, Wash. operating on 570 kc with power of 500 watts and unlimited time. The quota value of such a station is 0.6 unit. The Fifth Zone is over-quota; Montana is under-quota and Washington is over-quota.

| | | | | |
|-----------|------|--|--|--|
| 5-ALB-385 | KECA | | Pacific Development Radio Company Los Angeles, California | Voluntary assignment of license to Earle C. Anthony, Inc. |
| 5-PB-2340 | NEW | | San Joaquin Valley Broadcasting Company Lakersfield, California | C. P. erect new station, 1420 kc, 100 watts, unlimited time. |

Stations on requested or adjacent frequencies with mileage separation less than that recommended by the Engineering Division of the Commission in similar circumstances, and under which distances, interference might be caused if the application is granted are: KGIX, Las Vegas, Nev. 220 miles; KGGC, San Francisco, Calif. 210 miles; KFQU, Holy City, Calif.; KECA, Los Angeles, Calif. 100 miles. The Fifth Zone is over-quota; California is due 36.86 and is assigned 36.43 units.

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LICENSE APPLICATIONS RECEIVED

During the current week the Commission received applications for license following construction permits which had previously been authorized by Commission action from the following stations: WCAJ, Lincoln, Nebraska; WGST, Atlanta, Georgia; WJBI, Monmouth, New Jersey; KLPM, Minot, North Dakota.

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