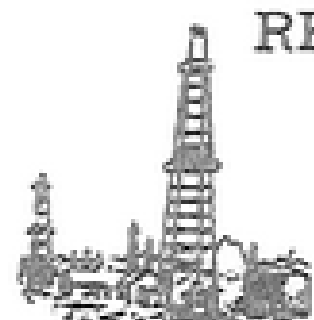


REGULAR MEETING SEPTEMBER 4 IN CITY EOC-UP YOUR 07-67 DISCUSSION

MID-OKLAHOMA REPEATER INC.



Serving Central Oklahoma Amateur Radio Operators

MORI MEETING SCHEDULED---It's happening again, just like Halley's Comet. Here comes that repeater group for another fun session down at the City EOC in room 12 at 46th and North Eastern. Program plans reported by WA4AQW center on the generation of power and I don't think that he is talking about the TVA. The time is 8:00 p.m. and it is extremely important that all members of MORI who can to attend and bring a friend. Topics for discussion at the business meeting will include the agreement reached with WKY on the 07/67 repeater and the operation and maintenance of the repeater systems. WA5AOB reports that this will be the most critical meeting of the year. Your ATTENDANCE please!!

STAIRWAY TO THE STARS--Not quite, but as mentioned, it is definite that the 07/67 machine will go up on the big WKY tower through the generosity of the Oklahoma Publishing Company. Now that space confirmation has been received, only a few details are left to be worked out and hopefully the newsletter can have more details later. Receiver space has been donated at 735 feet and transmitter space at 428 feet. Repeater construction is just 'bout complete, but there are still a few things to be cleaned up. Your help is needed. Call W5KOZ or WA5AOB if you would like to help or better yet, see them at the meeting.

FCC ABDICATES ENFORCEMENT RESPONSIBILITIES--At least it seems that way. 224 Mhz better make way for the 2 kw, bootlegging, sliders. . . not talking about hams, but about the new proposed Citizen band proposed by the FCC in Docket 19759. As many people know, the FCC recently dealt amateurs a crushing blow with regard to repeater operation which was so oppressive that it will surely stunt repeater growth for a while. But the reversal of this trend seems to be the rationale behind the new class CB. Public reaction and comment are certain to do no good, but they will be important in shaping the new class E CB'ers. Suggestions such as digital automatic ider's, tamper proof construction, use of oscillators which will not allow the use of VFO's, type acceptance, might all stem the amounts of abuse which are sure to occur. Remember that your nonemotional and reasoned comments and suggestions are needed by the FCC. You will need to send the original and 14 copies. If you do not have access to a copier, then type up your material (follow the form of the FCC notice as shown on page 88 of the August 1973 issue of QST) except substitute, "Opposition to Proposed Rulemaking.") and mail it to the secretary treasurer along with a check for duplication costs in the amount of about 35 cents per page. We will be able to duplicate simple charts and graphs if you would so like to indicate. You will receive about 16 copies and keep one for yourself and another one for league director. The FCC action is understandable when you consider the current need to provide a radio service for our transient and mobile society, *but* The FCC offered in the docket to propose that previous abuses in the citizen radio service was a unfair game to the commission in receiving comments. But the fact is that if the Commission choses to ignore the current abuses in the Citizen Radio Service during the proposal of this new service, then they will not be taking advantage of all the experience that they have compiled. Now is the time to prevent abuse by making determinations in equipment and not just frequency. It appears that the FCC attitude is "Oh yes, we'll take care of that later, but the important factor is to provide for the service now." To refuse to balance spectrum abuse against the projected need is a thought process that rejects the Commission's primary purpose for existance which is spectrum conversation in the final analysis. Before allocating this resource, it must be determined that the Commission will be capable of policing this influx of over 10 million potential operators. If they can't, then some mechanism must be established to set up a reasonable self policing attitude such as used by the amateurs. Broadcast stations stay in line because they are highly visible and fear economic loss should they lose their licenses. Land mobiles have not quite so much at stake, but economic factors plus the utility nature of their equipment places some restraint on their operation. Amateurs fear the Commissions wrath plus their knowledge of electronics and radio which allows them to appreciate the need for self-regulation. The fraternal aspects and common goals of amateur radio (goals within reason) provide the impetus for amateur restraint. But there are none of these factors present in the Citizen's radio service. Plus the transient nature of CB'ers make it extremely difficult to apprehend them. Place with that the unscrupulous nature of manufacturers who put illegal equipment before the CB marketplace and you will have a complete loss of national orientation and goal achievement. If Prose Walker is so conscious of directions, then certainly he should be conscious of the lack of coordination and control that such a service will provide. If you choose to comment on the FCC petition, please do soon, the deadline is September 20. If you don't have a copier, then send your checks and petitions to MORI as per the information given above. The suggestions given in this brief comment are in no way intended to limit you in the nature of your comments. There are many other factors involved that would be fair game such as the treaty violation with Mexico and Canada because of deviation from the International Table of Frequencies. Do try to organize better than this presentation.

RED CROSS CROSS FREQUENCY--WA5AOB reports that the New Hammurlund FM-50 two meter transceiver that he donated to the club for use down at the Red Cross center is alive and well and in current operation. Wayne became alarmed during the Union City disaster at the inability of the Red Cross Center to utilize all the frequencies, so the club outfitted the rig with crystals at the next meeting and Wayne offered it to the club for placement down at Red Cross. The frequencies are 34/94, 94/94, 07/67, 52/52, which will certainly increase the utility of the station. Wayne also suggested that these frequencies can be used during a disaster to call up and ask for credentials to be permitted to go in to the disaster area so that all you have to do is call and then go by and pick them up if you have been approved. A communications committee has been set up by the Red Cross to screen potential applicants and set up a structure to utilize amateur radio talent in providing sorely needed communication during a disaster set-up. As these plans become finalized, we'll keep you informed. The rig, incidentally runs 28 watts into a Ringo or a beam depending upon whichever is needed for the communications capability.

*****K0 Z CORNER --The Kind Old Zombie says: Now is the time for all good hams to order up their call letter license plates. People in those usual "higher up places" report that they will be green and white for 74 (as opposed to the red of embarrassment) The deadline for ordering is September 30 and you can obtain forms from me at the meeting or write to me with a SASE. It's a great way to be distinctive for just \$2.30 and the tag people have said that the special call letter license plates will be issued as usual, fire or no fire. The name of the game is revenue and (amateurs excluded, everybody else pays \$10.00) they are not about to pass up the thousands of dollars that they receive for "in crowd" plates just because Big Mac came out well done. The state has already obtained estimates from out of state license makers for the additional plates.

Whatever happened to Honesty? Yeh, with a capital H. I'm talking about reports for signal quality, and etc. If a fellow sounds like he is straining gravel through a rusty sieve, why not tell him so? He probably won't kill you, and he is certain not to come down the leadin and whomp you up the side of the head. In fact, he'll probably be grateful. If he is so far off frequency that he is chopping off the repeater, tell him that, don't say "You're a tiny bit off frequency." The secret is to tell the truth about what you are hearing as an observer. This also doesn't include additional diagnosis on your part as to what is wrong. Label your theories about what is wrong with his signal as just that. Give him alternatives to think of and not blind alleys to pursue. The key is Honesty and objectivity and no confusion. A signal report should be informative and objective, not fiction.

MORI is considering a compilation of a few typewritten pages concerning repeaters and repeater operation. This will not be a "selling" type of pamphlet, but a selection of remarks that have appeared in this space concerning operation and repeater operation theory. We hope to make it a real nuts and bolts alternative to some of the operating practices that are heard on the air. Just as low band operation has its techniques that are constructed to facilitate communications, so does the nature of two meter FM demand certain techniques. Interference is rarely a problem, call sign identification can therefore be reduced to a minimum, sharing a repeater calls for just basic courtesy in not imposing yourself to the irritation of your fellow repeater users. The repeater is not a place for excessive rag-chewing, especially by base stations. When base stations have the many communications capabilities built in that most do, then there is no reason for them to put their primary ragchewing emphasis on 94. They exist for the convenience of the mobiles and portables. We hope to include stuff like this. If you have suggestions, aids, helps, and criticism for a new operation manual, then write or call the Secretary or contact him or me at the meeting. If time permits then perhaps we will be able to take suggestions in the open meeting. This is still subject to the will of the club. We don't intend to set down rules, hopefully we don't need them, but primarily a procedure to have in the back of your mind. Kind OLD ZOMBIE... HELP-Speaking of operating procedure and musing about KOZ's remarks, It is a good idea to review a suggestion of MORI member W5ORH, the trustee of W5BIC/5 repeater, concerning repetition on the calling techniques of some users of both machines. Jay says that he is impressed and grateful with the cooperation and response of repeater users in OKC, but he reminds people that repeating on the repeater is not necessary. When calling it is not necessary to say, W5ORH, W5ORH, W5ORH, this is W5XYZ, W5XYZ, etc ala CW or low band technique. Instead, Jay suggests a call be a 1 x 1 with a short wait and then perhaps a repeat of the call and then a clear if no answer. This technique is based more on the practical aspects of repeater listening than on theory. If the station being called is listening with the volume turned down and thinks that he hears his call and then turns it up, you catch him the second time. If he is not listening at all, then you provide yourself with maximum attempt to make communications with minimum use of the repeater. There are other techniques that you can use to maximize your communications effort. Start thinking about your friends' habits and then evaluate whether you use techniques that maximize your communications capability. Does he carry a handie or walkie-talkie? Does he listen in a high noise area? Does he listen with the volume subdued? Where does he usually listen? In the car? At Home? At work? Most people are creatures of habit. YOU can start thinking about those habits and make two meter FM work for you at minimum expense to others. MORI is

approaching 140 members, but there is still no cause for alarm in terms of overcrowding. Still a few people can provide much annoyance by monopolizing, and improperly utilizing the machine. It is not a hangout, or a coffee shop, but a central meeting place for OKC amateurs for their enjoyment and use. Use the repeater for fun, but remember its purpose. I think that in seconding Jay's suggestions that another factor to be taken into account in the marvelous communication tool that we possess, not just in repeaters, but ham radio in general is that we generally have nothing to say. Think about phrases that you use and examine them to determine their content in communicating a useful idea or is it just a filler. Have fun with your language, but if you have nothing to say, admit it. Your conversation need not be esoteric or philosophical, but if you insist on ragchewing and want everyone to listen, then at least make it interesting. Although this might be difficult while mobile, with a little attention, it can be done. Wayne Green said during his visit to Oklahoma last spring that he was thinking about starting a contest to award certificates to those people who use more than 10 cliches in a single QSO. This could be quite an achievement for some amateurs, but potentially a source of embarrassment! An announcement in one of his recent issues apparently indicated his intention to go ahead with the award, so watch it! The cliché listeners may be out to get you!! It is recognized that certain cliches such as used on the low bands provide much color to amateur communications, but that's ok on the low band where they ARE not imposed on a large number of listeners. But neither do your conversations on two meter FM have to be sterile and devoid of color or interest. The key is intelligent communications consistent with a proper regard for other repeater users and listeners.

MORI NEWSLETTER CORRESPONDENT--WB5EMI on a recent sojourn to Texas returned with a copy of the BIG ARC, the club newspaper of the Arlington Radio Club. One item of interest that Jim pointed out involved a member of the club who rode a section of tower 40 feet to the ground while erecting the tower. The real tragedy is that he had no medical insurance. But the food for thought is for you to exercise care and caution when placing that tower in the air. How did the accident happen? If that would have been you, could you have anticipated the alternatives? Are you taking unnecessary risks when engaging in tower erection or similar dangerous activity? It takes a little longer time to be careful, but it pays off.

In addition the newsletter featured a calendar of events which we feel is a good idea as an incentive to keep you from placing the newsletter in the bottom of your canary cage after receiving it. So we are now actively soliciting events which will be published in a calendar like format from any club, activity, or group in the OKC or surrounding area. I will be able to make limited efforts to obtain these items, but the burden will be left on each individual group. You can deliver them to me, the President or Vice-President listed on Page 4 and we'll try to get them in. We will use regular events, such as club meetings, coffees, informal gettogether, or special events such as hamfests, special activities. Send event, date, time, place to any of the people listed as officers on the last page.

Another suggestion is the possibility of advertising appearing with the newsletter. It must be remembered that the club voted down the sale of the membership lists to outside advertisers as a money making venture, but this is a different proposal. Advertisement will be included either as an additional sheet to be mailed with the newsletter, or made a part of the text. All advertisers will be approved by the executive committee. Any advertiser who wants to will be able to reach some 140-160 active amateurs in the OKC area. Discussion will be presented at the next meeting. It should be noted that advertising will also require an enlargement of the newsletter staff in order to accommodate the additional work to be required.

TECHNICAL ARTICLE OF THE MONTH (You kidding?) -- They can't all be gems, but this rather simplistic experiment points out the need to exercise caution in placing a mobile rig in the car. This experiment was performed in a 1968 Ford LTD which had just had a tune-up and electrical system checkover and also had a die hard battery. The transceiver was connected to the ignition switch and the power output of the rig was measured. The following results were noted:

Car ignition on, but car not started	10.5 watts
Car started (Car revved up got 17 watts)	12 watts climbed to 15.
Lights on only (Car revved up--15 watts)	14 watts
Airconditioner only (Car revved up--13 watts)	12 watts
Lights and air conditioner (car revved up--12 watts)	10 watts

As can be seen, the condition of your electrical system has quite a bit to do with what power output you obtain. True-some of the drop might have been due to IR losses from the battery to the ignition switch, but it is doubtful that even a direct connection to the battery could have alleviated the problem. After the lights and airconditioner had been on and then turned off, it was impossible to get more than 15 watts out of the radio even at the highest level of RPM. Receiver sensitivity will also be similarly affected, but not to the same extent. A proper mobile installation requires care and thought.

Another comment to be made is that if you own one of the FM rigs which has a rather broad banded selectivity such as the HR2A, you are going to be subject to ignition noise in weak signal areas because when the signal level drops below that required for good limiting action, the broad band characteristics allow the signal to be covered up by the ignition noise because of decreased signal to noise ratio. Two solutions are indicated. First decrease the bandwidth. This will effectively decrease the noise that gets into the receiver increasing the signal/noise ratio. Second, you can decrease the noise generator at the source by shielding your car's ignition. If you have a capacitive discharge ignition system, this can be a worse problem because of the higher efficiency and voltage plus the electronic switching generates higher harmonic content. Another solution is to make sure that your receiver is doing everything it can in the quadrature detector to cancel out noise pulses. In the Regency HR2A, there is a noise balance adjustment (L103). This can be adjusted to ^{get} provide the best signal to noise ratio for weak signals. A conversation with an engineer ²⁻⁷⁻⁷³ via the telephone gave up the information that the factory generally set the noise for minimum noise consistent with medium level signals. The technique that is recommended in the Regency service manual recommends the use of T-connector, noise generator and an oscilloscope, but it can be just as easily performed with the radio, your car and a location where the repeater signal level is covered up by your ignition noise. Opening the radio, you can adjust the noise balance control (quadrature detector coil) until the noise appears to be at a minimum. This represents a point when the noise spikes are equally positive and negative in their amplitude. Don't turn the coil too much. Since the squelch is also noise operated, this adjustment will also affect the squelch operation. If the problem is still bad, you might need an IF and RF alignment. Regency will completely tune up your radio and do minor repair, including the conversion to a later model, such as a HR 2 to an A for a nominal fee. Contact the Manufacturer for details. Service manuals for almost all Regency equipment are available from the company for nominal costs (usually about \$3.00.)

TECHNICAL ARTICLE NO. 2--K2GKK reports that those of you who own IC-21's can increase the sensitivity of the rig on receive by proper adjustment of R6-the S meter level adjustment on Board U-12. This potentiometer controls the gain of the 10.7 Mhz IF amplifier and its adjustment will throw the S meter off calibration but at a cost of increased sensitivity. Quite a gain I would say at a minimum cost.

BARGAIN BILLBOARD

WANT TO BUY--Jim, WB5EMI is looking for a Bird Thruline Wattmeter with elements and a Grid (or Gate) Dip Oscillator. Call 681-9718 if you have one of these two items you might be willing to part with.

FOR SALE--WA5EPK has two crystals for a HR2A for 07/67 that he would be willing to part with for a reasonable price. Get set for the new repeater with crystals. Contact the Secretary.

Got something to buy, sale, or trade? Let us know. Write or call the Secretary-Treasurer before the 20th or the month preceding the mailing of the newsletter. News items and technical articles are especially welcome as well as your comments. Equal time (within space limits) will be offered to any member sufficiently offended to write in about it. This newsletter is published by Mid-Oklahoma Repeater Inc. as a service to its members. For information about the club contact any of the names listed below or any member of MORI.

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First Class

To Amateur Radio Station

Here is your September
MORI Newsletter!!!