



THE BULL SHEET  
OFFICIAL NEWS BULLETIN OF  
THE TEXAS DX SOCIETY

an ARRL affiliated club

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MEETING NOTICE: The September TDXS Meeting will be Friday, the 9th, at 7:30 P.M., at the Chimney Rock Medical Plaza, located at 6550 Mapleridge, which is near Bellaire General Hospital.

POWER PLANTS

It has come to my attention that a real bargain exists on a 4KW gasoline generator direct from factory, and I thought I would pass it along:

Make: WINCO  
Power: 4KW  
Outlets: 2-110 Volt, 1-220 Volt  
Manual Start: 8KW surge capacity  
Price: \$488 + \$50 shipping  
Electric Start: 6.8 KW surge capacity  
(with auxiliary manual start) Price: \$588 + \$50 shipping

Warranty: one year, parts and labor; local dealer here does repairs and warranty work and is located on Shepherd Drive. (He retails the manual start at \$995 and the electric start at \$1,045)

Windings: copper, not aluminum  
Engine: 8 HP Briggs & Stratton or Tecumseh  
Mounting: tubular rack mount  
Weight: Manual - 130#  
Electric - 145#

I heard about this over a repeater after the hurricane. I've talked to the folks who are doing this as a dealer through the manufacturing and they seem straight enough, but I haven't seen a unit in the flesh as yet and haven't talked to anyone who owns one either. So, as they say, CAVEAT EMPTOR, please.

If you are interest in more info (like their telephone number) call me.

AL - KN5A

## Envelope Power Has Reached a New Peak

BULLETIN: NR 64 From ARRL Headquarters  
Newington CT July 28, 1983  
TO ALL RADIO AMATEURS:

The FCC has released a report and order terminating PR docket 82624 and amending the rules in parts 2 and 97 pertaining to amateur transmitter power limitations. Effective August 29, 1983, most amateur power limits will be expressed in terms of peak envelope power. The new rules impose a 1500 watt peak envelope power output limit on the majority of amateur transmissions. However, operators employing AM double sideband voice may continue to use the present 1000 watt DC input terms until 1990. The new rules also place a 200 watt PEP output limit on transmitters operating in novice subbands, replacing the present 250 watt DC input limit. Additionally, effective radiated power has been redefined in terms of PEP output from the transmitter. The special power limits at 1900 to 2000 KHZ have been specified in PEP output figures, and power limits for 450 MHZ transmitters located around certain military installations have been redesignated in PEP output terms. Details to appear in September and October 1983 QST.

Lee - W5D0Z

### Jarvis Island - a new one?

Well yes and no. Jarvis Island is located on The Central Pacific a few hundred miles south of Palmyra (KH5). W3AZD has "hinted" that it "could" count as Palmyra because of its location. George, AD1S, not to be confused with George, ADØS, has announced his plans for a Jarvis Island (1983) expedition.

As you may recall, the last operation from Palmyra by ADØS was disallowed. Those of us with ADØS/KH5 cards, which do not "count" for DXCC, will soon have the opportunity to work AD1S/KH5 which will "count". AD1S will have H44SH with him who is a very active contester and perhaps is better known as H44R.

This should be a contest style DX-expedition. Oh, before I forget, a free lunch goes to the first person who calls and correctly advises me that this DX-expedition is operating. Good Hunting!

73 - Frank - KC5M

### ITS CONVENTION TIME

Gentlemen, The National Convention is upon us. October 7, 8 and 9 will be packed with all kinds of events. There will be more than anyone can possibly see, so plan your time now. All of you should have gotten the mailer from HHC describing the events. If any-

one did not get one, I will have plenty available at the meeting. As you will notice, TDXS is putting on the First International DX and Contest Symposium, and will be debating the following topics:

1. Use of spotting nets during contests. OH2BH
2. Prearranged schedules during contests. OH2BH
3. What is excessive power? K5RC
4. Should some countries be deleted from DXCC list. K2SX
5. The DX "list" controversy. W5LLU

The people debating these issues are the tops in their prospective areas and are worth listening to. The audience will also be interacting with the debators.

Some of the other events we will be presenting as a club are the Heard Island DX-pedition by K8CW, Spratley DX-pedition K1MM, African DX-pedition by W6KG/W6QL and Ham radio in China by W6AM. Don't forget the flea market bash that Grady, NA5R, will be throwing under the big top in the Astrodome parking lot as well as the KD5SP/N5EA/W5SCHY hospitality get-together each evening of the convention. K5IY will have tickets in hand at the meeting so bring all the money you have been stashing away all year for the raffle. You know he's going to get it anyway, so you might as well do it while your sober. Anyway, we hope everyone will spend as much time as they can at the convention since this will rank right up there with Dayton in its prestige. Oh yes, one last major event; the K5VWW Bar-B-Que for club members and invited celebrities only. Please figure out by meeting time if you can make this Friday evening wing-ding so we can let Orville start making plans now. Lets make TDXS very visible to all our national visitors.

CU and 73's

Bob N5DU

## AUTOMATIC RTTY MESSAGE STORAGE SYSTEMS

At the last count there were some 43 such automatic RTTY stations scattered through the States, plus two in Australia, one in S. Africa, and one in the Cayman Islands. I have heard of a station in Germany that conducts a full QSO, including a signal report, completely unattended. (I have not printed this one yet!)

Those here in the States primarily contain messages between friends. However they also contain information as varied as DX info, offers to buy, sell, and swap equipment, computer programs, ARRL Bulletins, appeals for technical help, news, etc.-you name it.

There are at least four different COMMAND FORMATS in use, the HAL, MACROTRONICS, SUPER-RATT, and composite. Predominately they are located at 14087.7 and 14097.5. There are a few others on different frequencies on 20M, as well as on 40 and 80M. Most use either 60 or 100 WPM BAUDOT, but one is on 110 BAUD ASCII. These frequencies are for AFSK, if you use FSK then the frequency will be 2.1KHZ lower.

Obviously, to perform the many functions required to control the various operations, some COMMAND system must be employed.

One of the most popular is the HAL Message Storage Option (MSO) at 60WPM BAUDOT on 14087.7. To give you an idea of the sequence of commands, the accompanying page is a copy of an actual, on the air, exchange with W9CD, one of the MSO stations.

After you identify, the CALL-UP for the MSO is:

```
(C/R)MSO9CD(C/R)(immediately drop carrier)
(MSO plus the last 3 characters of the CALL,
(C/R) means CARRIAGE RETURN)
```

The MSO station then responds with its ID and SIGN-ON message ending with NEXT? k

You ID, then transmit (C/R).COMMAND(C/R)(drop carrier)

In this case I sent (C/R).HELP(C/R)(drop carrier)

The MSO station then transmitted the COMMAND and FORMAT message ending with NEXT? K

You ID, then transmit (C/R).COMMAND(C/R)(drop carrier)

In this case I sent (C/R).SDIR(C/R)(drop carrier)

The MSO station then transmitted the SHORT FORM DIRECTORY, ending with NEXT? K

You ID, then transmit (C/R).EXIT(C/R)(drop carrier)

The MSO station then responds with its DEACTIVATED message.

To leave a message in the MSO, the sequence is:

```
(C/R).WRITE ADDRESS(C/R) (I.E. (C/R).WRITE 9CD:DOZ(C/R))
MESSAGE TEXT
.ENDFILE(C/R)(drop carrier)
```

These MSO's are very useful, and easy to use with a little practice. As with all computer devices, the COMMAND FORMAT must be EXACTLY observed. An extra or missing character, even a space in the wrong place, will not be accepted.

The invariable MSO rule is that all COMMANDS must begin at the left margin (C/R), be preceded by a PERIOD (.), followed by a (C/R). Any departure from this FORMAT just will not work. And always be sure to CLOSE the MSO with a (C/R).EXIT(C/R) when you are finished.

The systems are completely open, and are there for use by anyone, in fact their use is obviously welcomed.

The COMMANDS and FORMATS for the other systems are similar, but there are some important differences. I will not include their explanation at this time. There is a comprehensive article on all the systems in the April 1983 73 Magazine.

DE Lee W5DOZ

W9CD DE W5DOZ .  
MS09CD (R) immediately drop carrier } I send

W9CD MSD IS ON:

- .EXIT - TO EXIT MESSAGE STORAGE OPERATIONS
- .HELP - TO PRINT COMMAND LIST

} MSD RESPONSE

1020CDT 4-AUG-83 NEXT? K

DE W5DOZ } I SEND  
.HELP

DE W9CD MSD:

MSD-3100 SUPPORTS THE FOLLOWING COMMANDS AND FORMATS:

- .DELETE - DELETE A FILE BY NAME
- .DIR - LIST THE DIRECTORY OF CURRENT FILES
- .ENDFILE - INDICATE THE END OF A FILE TO BE WRITTEN
- .EXIT - DISABLE MSD
- .FILEHELP - SHOW THE FORMATS OF THE FILE COMMANDS
- .HELP - SHOW THIS TEXT
- .KY1ON - TURN KEY 1 ON
- .KY1OFF - TURN KEY 1 OFF
- .KY2ON - TURN KEY 2 ON
- .KY2OFF - TURN KEY 2 OFF
- .PRINTON - TURN PRINTER (KY3) ON
- .PRINTOFF - TURN PRINTER OFF
- .QBF - PRINT TWO LINES OF QUICK BROWN FOX
- .READ - READ A FILE BY NAME
- .RYS - SEND TWO LINES OF RYRYRY
- .SDIR - SHORT FORM DIRECTORY
- .WRITE - INDICATE THE NAME AND BEGINNING OF A FILE

↑  
MSD RESPONSE  
↓

1022CDT 4-AUG-83 NEXT? K

DE W5DOZ } I SEND  
.SDIR

DE W9CD MSD:

9CD:QXK  
 9CD:JBM  
 9CD:CAP  
 TU-170 FOR SALE  
 TG9UT:AJDX  
 9CD:NYA  
 TG9UT:W9CD  
 TOTAL OF 7 MESSAGES USING 7832 BYTES. 24936 BYTES REMAIN.  
 1023CDT 4-AUG-83 NEXT? K

↑  
MSD RESPONSE  
↓

DE W5DOZ } I SEND  
THANKS CLARK  
.EXIT

DE W9CD MSD:

MSD DEACTIVATED 1024CDT 4-AUG-83  
 DE W9CD AR

MSD RESPONSE  
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