NTS Message Traffic 1.0



Info. Provided by ARRL Net Directory 1999-2000 FSD-50 By: Rich Davis, W4NMH

NTS Message Traffic 1.0

National Traffic System using ARRL Format

PURPOSE: To provide for a reliable means of transmitting formal information.

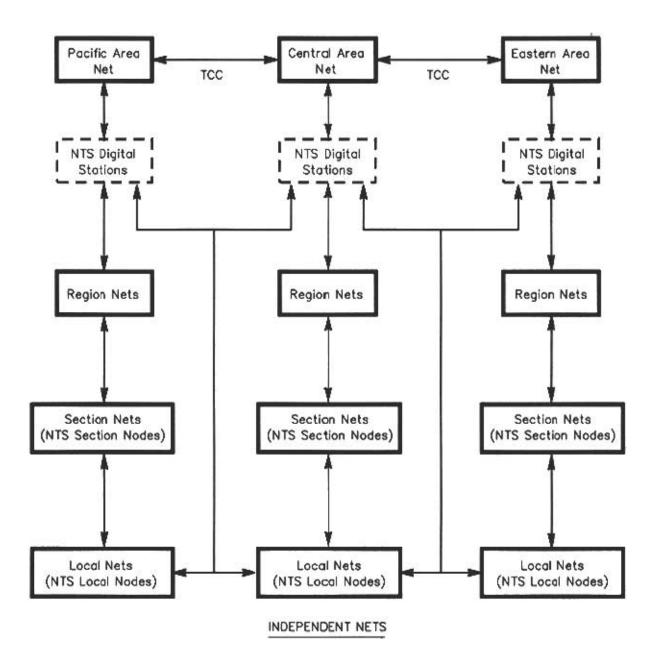
- A. Methods
- **B.** Protocols

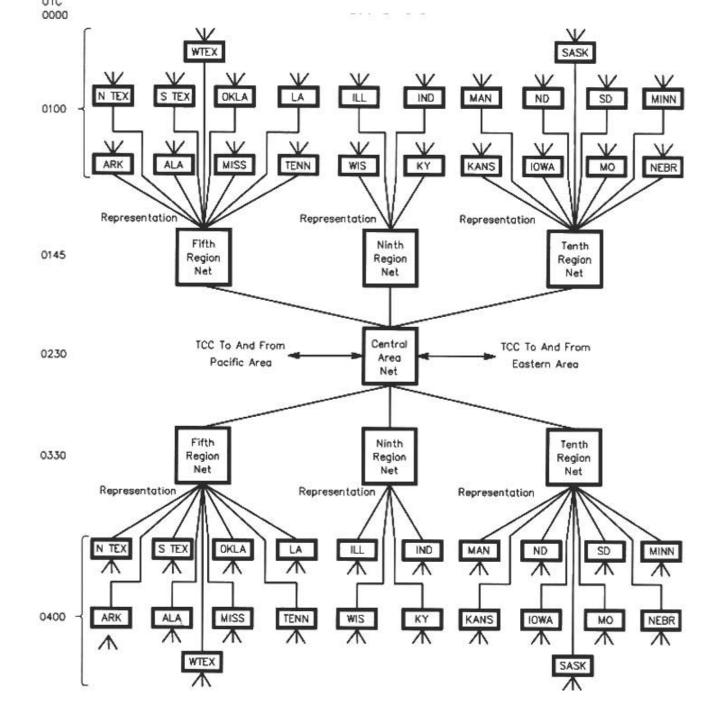
OBJECTIVES:

- 1) The primary objective is to facilitate transmission of a properly formatted written formal message from point A to point B such that it arrives exactly as written on the original copy, group for group, character for character, space for space.
- 2) Messages filed in the NTS must be capable of being transmitted by any mode without message alteration being required.
 - a) Voice and CW nets must be run to operate effectively and uniformly.
 - b) Traffic must be exchanged with efficiency.

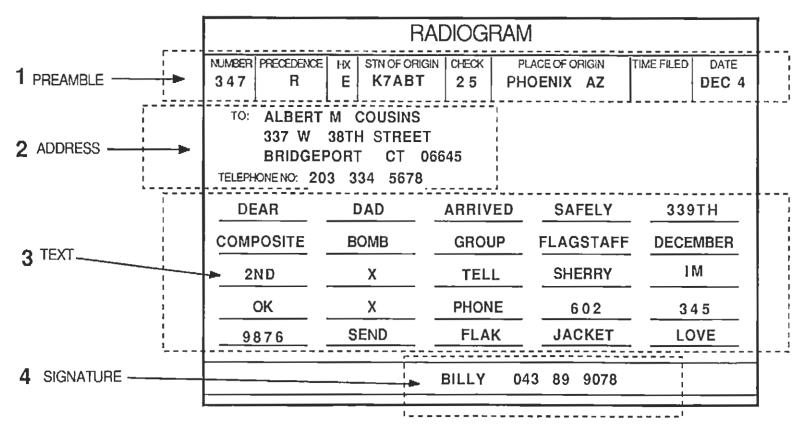
RESPONSIBILITIES:

- 1) Stations operating in the NTS have the responsibility to promptly relay messages along, deliver messages in a timely fashion, or service undeliverable messages back to the originator. Stations must honor this responsibility.
- 2) Stations operating in the NTS interface directly with the public and served agencies representing all of Amateur Radio. Stations must represent us all well.
- 3) The methods and protocols of the NTS MPG are intended to facilitate achieving these objectives.





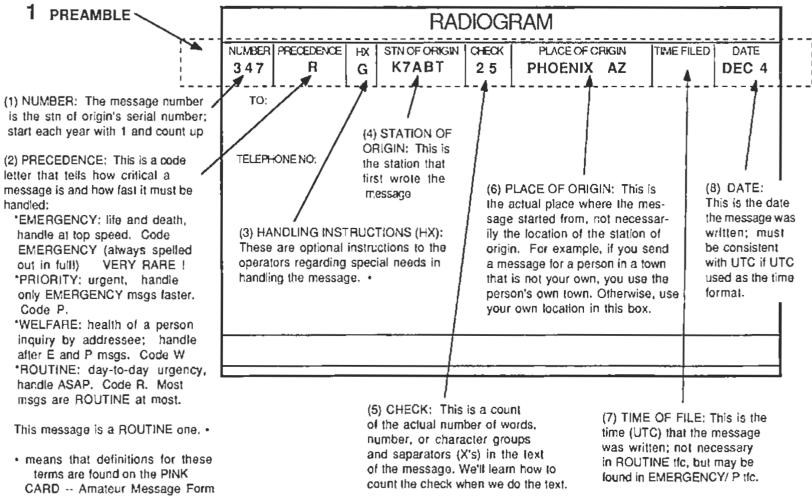
THIS IS A FORMAL MESSAGE. FORMAL MEANS THAT THE MESSAGE FOLLOWS A PRE-ESTABLISHED FORM OR CONVENTION. A FORMAL MESSAGE CONTAINS ALL THE NECESSARY "RECORDKEEPING" ELEMENTS THAT ARE REQUIRED TO KEEP A HISTORY OF THE MESSAGE AS IT IS SENT THROUGH THE NTS. ALL FORMAL MESSAGES CONSIST OF FOUR PARTS: THE PREAMBLE, THE ADDRESS, THE TEXT AND THE SIGNATURE.



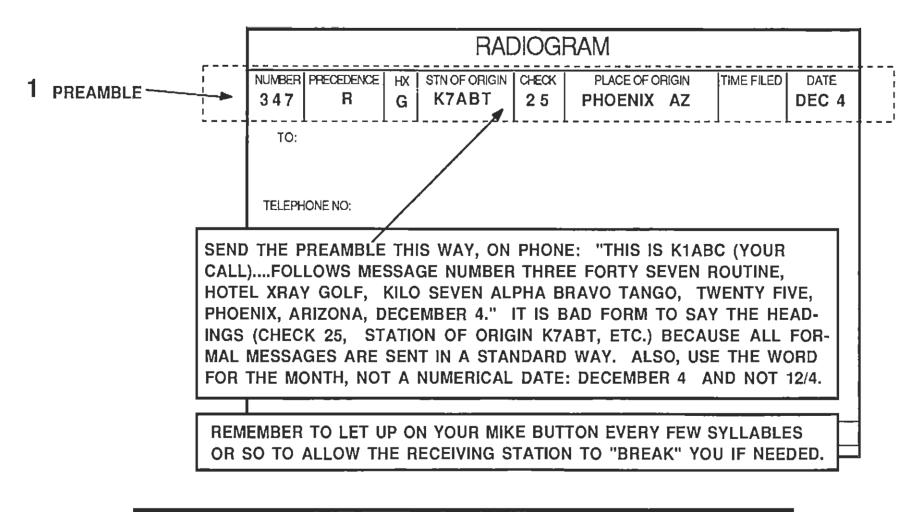
EACH OF THE ELEMENTS OF THE FORMAL MESSAGE HAS CERTAIN FORMAT REQUIREMENTS WHICH MUST BE MET IN ORDER TO AVOID CONFUSION ON THE AIR AS THE MESSAGE IS SENT, AND ALSO TO ASSURE THAT A SENDER-TO-RECEIVER TRACE CAN ALWAYS BE DONE ON THE MESSAGE.

LET'S TAKE APART THE MESSAGE PIECE BY PIECE TO LEARN HOW TO WRITE AND SEND A FORMAL MESSAGE.

THE PREAMBLE: THIS PART OF THE MESSAGE IS THE RECORD-KEEPING PART. IT IS READ ON THE AIR FIRST, FROM LEFT TO RIGHT AND ALWAYS IN THIS ORDER. ONLY THE HANDLING INSTRUCTIONS AND TIME OF FILE BLOCKS ARE OPTIONAL AND MAY, IF NOT NEEDED, BE ELIMINATED BY THE ORIGINATING STATION ONLY. THIS IS HOW THE ORIGINATING STATION WRITES OUT THE PREAMBLE FOR A FORMAL MESSAGE:



ARRL FSD-218 (585)



REMEMBER.....

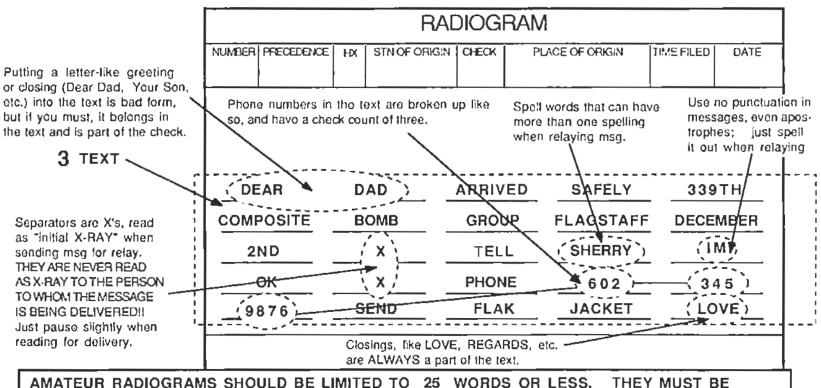
IF THE MESSAGE DOESN'T HAVE A NUMBER, PRECEDENCE, STN OF ORIGIN, CHECK, PLACE OF ORIGIN OR DATE IT'S NOT A FORMAL MESSAGE!!!

THE ADDRESS: THIS PART OF THE MESSAGE IS INFORMATION ABOUT THE PARTY TO WHOM THE MESSAGE IS BEING SENT (THE ADDRESSEE OR ADEE, ABBREVIATED). THE ADDRESS CONSISTS OF THE STANDARD THREE LINE POSTAL ADDRESS, WITH ZIP CODE, AND A FOURTH LINE LISTING THE ADEE'S COMPLETE PHONE NUMBER. THE ZIP CODE IS IMPORTANT IF THE MESSAGE WILL GO VIA PACKET AT ANY POINT, AND A COMPLETE PHONE NUMBER WILL SAVE THE DELIVERING STATION TIME AND EFFORT.

2 ADDRESS	RADIOGRAM								
ZADDITESS	NUMBER	PRECEDENCE	HX	STN OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE	
The address is the simplest part of the message except for the signature, and yet many hams do not do this part of the message correctly.	TELEPH	337 W BRIDGE	38T POR	COUSINS H STREET T CT 0664 334 5678	15		1		
Get complete into from the person for whom you are sending the mes- sage if possible. This will help get the message to the right person.									
For messages to hams in the mili- tary, remember that the MARS system, into which your message may be relified, needs the service- person's Social Security Number and complete military address. Many MARS programs also require the sender's complete address, so it is recommended that you put this information on any MARS message.		MA A T TR BE DO	KE A THIR 7 TO ROL ES F	ABSOLUTELY D-PARTY AC WHICH THE JTED FROM	/ SURE GREEM E MESS THE US RD-PAF	D FOREIGN COUN THAT THE US HA ENT WITH THE C GAGE IS GOING OF TO A COUNTRY RTY AGREEMENT NATION.	AS OUN- R CAN THAT		
REMEMBER: The accurate delivery of a message depends on an accurate addressbe as complete as possible!			- 4 N	AESSAGE IS NATURE AND ACCEPTABLE	OF A THATE MAT	Y SURE THAT THE NONCOMMERCIAL I ITS CONTENT IS TER FOR TRANS- YOU ACCEPT IT FO	5		

		RADIOGRAM								
	NUMBER PREC	CEDENCE HX	STN OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE			
2 ADDRESS	33' BR		H STREET	45						
SEND THE ADDRESS IN THE FOLLOWING WAY: (PICK IT UP FROM THE DATE) "DECEMBER 4, (PAUSE) ALBERT INITIAL M AS IN MIKE COUSINS, I SPELL C, O, U, S, I, N, S, (PAUSE) FIGURES THREE, THREE, SEVEN INITIAL W AS IN WHISKEY MIXED GROUP THREE EIGHT TANGO HOTEL STREET, (PAUS BRIDGEPORT, CONNECTICUT ZIP FIGURES ZERO, SIX, SIX, FOUR, FIVE, (PAUSE) PHONE FIGURES TWO, ZERO, THREE,THREE, THREE, FOUR, FIVE, SIX, SEVEN, EIGHT BREAK." AT EACH (PAUSE) AND THE BREAK, UNK YOUR RIG AND LISTEN FOR A WHILE IN CASE THE RECEIVING STN NEEDS A NOTE THAT SAYING "GOING TO" BEFORE SENDING THE ADDRESS IS BAD FOR								L SE) KEY A FILL.		
		ACTUAL CONDIT ALSO, A MRSA SPELLE THEN T	LY BE HARI IONS THAN AVOID INAN MARRIED L D COMMON ELL THE OP	DER TO THE LI IITIES I ADY, E LY, E.G	PARINGLYTHEY COPY UNDER SO ETTER NAME ALC N THE READING ETC. IF THE NAME , SMITH VS SMY MON SPELLING" A THE PAUSES FO	DME DNE. LIKE ME IS THE, AFTER				

THE TEXT: THE TEXT IS WHAT THE SENDER OF THE MESSAGE WANTS TO TELL THE ADDRESSEE. GOOD AMATEUR RADIO TEXTS SOUND LIKE TELEGRAPH MESSAGES, ARE CLEAR AND SUCCINCT AND WRITTEN IN SUCH A WAY THAT THEIR MEANING CANNOT BE MISCONSTRUED OR INTERPRETED IN MORE THAN ONE WAY, GOOD AMATEUR MESSAGE WRITING TAKES PRACTICE!!



AMATEUR RADIOGRAMS SHOULD BE LIMITED TO 25 WORDS OR LESS. THEY MUST BE NONCOMMERCIAL IN NATURE AND THUS ACCEPTABLE FOR HAM RADIO TRANSMISSION. THE TEXT NEVER CONTAINS ANY ELEMENTS OF THE PREAMBLE, ADDRESS OR SIGNATURE, NO PUNCTUATION, AND NO "50 CENT" WORDS !! LETTER-LIKE GREETINGS OR CLOSINGS, ALWAYS IN BAD FORM, BELONG IN THE TEXT IF THE NEED ARISES. THE TEXT IS ALWAYS SET OFF FROM THE REST OF THE MESSAGE BY USE OF THE WORD "BREAK" (BT WHEN SEND-ING MESSAGES BY CW/RTTY/AMTOR/PACKET) BEFORE SENDING THE TEXT AND IMMEDIATELY AFTER SENDING THE TEXT, BEFORE THE SIGNATURE IS SENT. THE DREADED CHECK: the CHECK is why many hams never get to be at ease with traffic handling, and yet it is so easy. The CHECK is simply a count of the number of WORDS or LETTER/FIGURE/MIXED GROUPS IN THE TEXT of the message---not the preamble, address or signature---EVERYTHING, IN OTHER WORDS, BETWEEN THE BREAKS! IF YOU CAN COUNT TO 25, YOU HAVE ABSOLUTELY NOTHING TO FEAR IN COUNTING THE CHECK. IF YOU GET STUCK, ASK AN EXPERIENCED NET TRAFFIC HANDLER FOR HELP IN COUNTING THE CHECK BEFORE NET STARTS.

The check is simply a count of the number of words in the TEXT of the msg. THIS MSG HAS A COUNT OF 25.

EACH word, initial group (OK), mixed group (339TH), figure group, (9876), city, state, name, etc., is ONE count.

Phone numbers are broken up into three parts; area, prefix and four digit sulfix and are counted as THREE text counts.

SEPARATORS (X-rays) get a count of ONE, also. If a word belongs apart from another word, it should be split up and counted as if each part of a word were put on a separate text line (for example, the word well-being should be well being for a count of 2.) If the word parts stay together (e. g., the word makeshift), the word count is one for that word.

HINTI!: Use ARRL RADIOGRAM pads for message writing until you get familiar with the structure and count of standard NTS format messages. Order ARRL pads from League HQ or your radio supplier.

RADIOGRAM								
NUMBER PRE	CEDENCE	HX STNOF	ORIGIN	i CHECK → 25	PLA	CE OF ORIGIN	TIME FILED	DATE
	3 TE		\				1	<u>I</u>
DEAF	1	DAD	<u>\</u> .	ARRIV	ED	SAFELY	339	э т н
сомроз	SITE	BOMB	<u> </u>	GROU	P	FLAGSTAFF	DECE	MBER
2ND		х		TELI	-	SHERRY		M
ок		x		PHON	E	602	3	45
987	6	SEND		FLA	<u>(</u>	JACKET	L(<u>DVE</u>

IF THE MESSAGE CONTAINS ONE OR MORE ARL NUMBERS FROM THE STANDARD ARL NUMBERED RADIOGRAM LIST, THE CHECK ALWAYS READS ARL (#), WHERE (#) IS THE NUMBER OF WORDS IN THE TEXT INCLUDING THE ARL AND ARL NUMBERS IN THE COUNT. FOR EXAM-PLE, "ARL SIXTY ONE LOVE TO ALL" WOULD BE COUNTED AS SIX COUNTS FOR THE CHECK. THE CHECK WOULD BE LISTED AND READ AS "ARL 6, FOR EXAMPLE. ARL NUMBERS ARE ALWAYS SPELLED OUT IN THE TEXT: ARL SIXTY ONE AND NOT ARL 61 !!

READING THE TEXT: REQUIREMENTS FOR READING TEXT ARE DIFFERENT DEPENDING ON WHETHER YOU ARE SENDING THE TEXT TO ANOTHER HAM FOR RELAY OR READING THE TEXT TO THE ADDRESSEE UPON DELIVERY

*WHEN RELAYING THE MSG: SEND the text using standard amateur message practice, with phonetics and special notation (figures, initials, etc) SPOKEN to assist clarity and accuracy of receiving.

*WHEN DELIVERING TO ADDRESSEE: READ the message clearly more like a letter, omitting the special notation; just read it straight!

TO SEND THE MESSAGE FOR RELAY (NOT DELIVERY), USE THE WORD "BREAK" TO SEPA-RATE TEXT FROM THE REST OF THE MESSAGE: "BREAK (PAUSE/LISTEN). DEAR DAD REMEMBER: THE ARRIVED SAFELY MIXED GROUP THREE THREE NINE TANGO HOTEL COMPOSITE BOMB I SPELL BOMB B, O, M, B, GROUP FLAGSTAFF ONE WORD FLAGSTAFF DECEMBER MIXED WORD "BREAK" GROUP TWO NOVEMBER DELTA INITIAL X-RAY TELL SHERRY I SPELL SHERRY S, H, E, R, ON FONE SETS R, Y, I'M INITIALS I, M OK INITIAL GROUP OSCAR KILO, INITIAL X-RAY PHONE FIGURES OFF TEXT FROM SIX, ZERO, TWO, THREE, FOUR, FIVE, NINER, EIGHT, SEVEN, SIX SEND FLAK I SPELL ALL OTHER PARTS FLAK F,L,A,K JACKET LOVE BREAK" (PAUSE/LISTEN). REMEMBER TO UNKEY YOUR RIG OF THE MESSAGE. FREQUENTLY DURING SENDING TO LISTEN IN CASE THE RECEIVING OP NEEDS FILLS.

ON CW/RTTY/AM-TOR/PACKET USE THE SYMBOL BT AS THE BREAK INDICATION.

TO READ FOR DELIVERY, JUST READ IT LIKE A LETTER, BUT DON'T SAY X-RAY AS PUNCTUATION -- JUST PAUSE NATURALLY AS IF THE X-RAY WERE A PERIOD IN A SEN-TENCE. YOU ALSO DON'T SAY BREAK, OR USE ANY OF THE OTHER NOTATIONS OR VER-BAL SYMBOLS YOU WOULD USE IF YOU WERE RELAYING THE MESSAGE TO A HAM. IF THE TEXT CONTAINS ARL NUMBERS, "DECODE" THEM BEFORE DELIVERY !!! SEE YOUR NET MANAGER FOR A COPY OF THE LATEST ARL NUMBERED RADIOGRAM LIST.

NUMBER PRECEDENCE	HX STN OF OR	IGIN CHECK	PLACE OF ORIGIN	TIME FILED	DATE	
Зт 		ARRIV	ED SAFELY	339	тн	
COMPOSITE	ВОМВ	GROU	JP FLAGSTAF	F DECE	MBER	
2ND	X	TEL	L SHERRY		IM	
ок	X	PHON	NE 602	345		
9876	SEND	FLA	K JACKET	LO	LOVE	

DADIOODALA

THE SIGNATURE: THE SIGNATURE IDENTIFIES THE PERSON THAT IS SENDING THE MESSAGE. IT COULD BE A THIRD-PARTY SIGNATURE OR THAT OF THE STATION OF ORIGIN ITSELF. THE SIGNATURE SHOULD BE COMPLETE ENOUGH FOR THE ADDRESSEE TO UNDERSTAND WHO IS SENDING THE MESSAGE. FOR MORE OFFICIAL TRAFFIC OR FOR MARS MESSAGES . ADDITIONAL IDENTIFYING DATA MAY BE PLACED IN THE SIGNATURE.

NUMBER | PRECEDENCE | HX

RADIOGRAM

PLACE OF ORIGIN

TWE FILED

DATE

STN OF ORIGIN | CHECK |

THE SIGNATURE, LIKE THE ADDRESS, SHOULD BE AS COMPREHENSIVE AS NEEDED TO COMPLETELY IDENTIFY THE SENDER TO FAMILY MEMBER SINGLE NAME S FOR OTHER ME IS BEST TO USE AND SURNAME BER, FOR MARS A COMPLETE A RECOMMENDED SIGNATURE.

THE SENDER TO THE ADEE. FAMILY MEMBERS MAY USE	TO:	as service numbers, SSN's, mem-
SINGLE NAME SIGNATURES.		bership numbers, etc, are OK but
FOR OTHER MESSAGES, IT	TELEPHONE NO:	care must be taken to preserve the
IS BEST TO USE FIRST NAME	TEEL TRATE NO.	data in relaying, particularly for
AND SURNAME BOTH, REMEM-		EMERGENCY/P/W messages.
BER, FOR MARS MESSAGES,		
A COMPLETE ADDRESS IS A	·	
RECOMMENDED PART OF THE		
SIGNATURE.		
AVOID CUTESY-PIE SIGNA-		
TURES.		
4 SIGNATURE		BILLY 043 89 9078

TO SEND THE SIGNATURE, AFTER THE BREAK/PAUSE FOLLOWING THE TEXT, SIMPLY SEND: "BILLY" (PAUSE) FIGURE GROUP ZERO, FOUR, THREE, EIGHT, NINER, NINER, ZERO, SEVEN, EIGHT ". USE NO PUNCTUATION WHEN SENDING THE SIGNATURE.

TO END THE RELAY SAY: "END OF MESSAGE. NO MORE" IF THAT IS ALL YOU HAVE TO SEND TO THE RECEIVING OP. SAY "END OF MESSAGE- (#) MORE" IF YOU HAVE MORE MESSAGES TO SEND TO THE RECEIVING OP, WHERE (#) IS THE NUMBER YOU STILL NEED TO SEND. THEN USE FILL PROCEDURE AFTER SENDING THE MESSAGE TO ASSURE AN ACCURATE RELAY.

GO AHEAD AND TRY IT. JUST USE WHAT YOU HAVE LEARNED FROM THIS TEACHING TEXT AND SEND YOUR OWN MESSAGE TODAY. YOU CAN SEND A GREETING TO A FRIEND, A NOTE TO A FAMILY MEMBER ON A SPECIAL OCCASION, OR PRACTICE BY SENDING THE NET MANAGER A MESSAGE TELLING HIM THAT YOU FINISHED THE TEACHING TEXT.

RADIOGRAM								
NUMBER	PRECEDENCE	ΗX	STN OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE	
TO:								
TELEPH	IONE NO:							
-	<u></u>							
-								
SIGNA	TURE:							

MORE IMPORTANTLY, YOU ARE NOW BETTER PREPARED TO BE AN EMERGENCY COMMUNICATOR, TO FULFILL THE NEED FOR RADIO SERVICES IN TIMES OF DIS-ASTER, TO SERVE YOUR COMMUNITY AND NATION, TO ASSIST NTS IN RELAYING MESSAGES ON A DAILY BASIS, WITHOUT BEING AFRAID OF NOT KNOWING HOW TO DO IT !! CONGRATULATIONS, AND DO SEND TRAFFIC OFTEN. REMEMBER--PRACTICE MAKES PERFECT !!

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http://www.arrl.org/nts-manual