

SOUTH TOWNS AMATEUR RADIO SOCIETY
OFFICERS AND BOARD OF DIRECTORS

President = Bill Siska = N2GA0
 Vice Pres.= Larry Shannon = K2KVS
 Secretary = Dick Dukat = K2RDD
 Treasurer = Mal Vallone = WA2VER
 Fin.Secy. = Frank Modzelewski = KE2DG
 Director = Nick Stanko = KA2SEZ
 Director = Voit Drankan = KA2WIO
 Director (past President) = John Leitten = KA2RFT

=====

General Meeting = 1st Thursday = 1930 hours = Youth Center
Board Meeting = 4th Tuesday = 1900 hours = Youth Center
75 Meter Net = Each Saturday at 1000 hours = +/- 3925 khz
2 Meter Info Net = Each Wednesday at 1900 hours = 147.69/.09
RAVE HOTLINE = 876 - 6593
 =/ /=



TELSTAR

April 1988 - #92

SouthTowns Amateur Radio Society

WB2ELW

APRIL

SUN MON TUE WED THU FRI SAT

					1	2
3	4	5	6	7	8	9
				regular meeting		
10	11	12	13	14	15	16
						telstar deadline
17	18	19	20	21	22	23
24	25	26	27	28	29	30
		board meeting				

FOB

JOE PROCKTON
67 BURMON DR.
ORCHARD PARK NY
14127

address list
enclosed

John W. Cullum Jr
6871 E. Webster Rd
Orchard Park NY 14127-1922



VE TEST SESSION

HAMBURG
JR. HIGH

13 April 1988

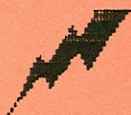
7:00 PM to 10:00 PM

NO WALK - INS



LIGHTNING

RELATED ARTICLES



The conclusion of the following-

A LIGHTNING PROTECTION SYSTEM FOR YOUR SHACK

by Peter Altman, K09G

Next, 8 to 10 foot copper or copperplated ground rods, at least 5/8 inch diameter, are driven into the ground 12 inches away from the tower base -- one for each leg. Each rod is connected to the tower with 0 or 00 gauge wire or similarly-rated flat copper braid strap as shown in figure 2. Heavy crimp-on connectors are used at the cable ends and connections made to legs and ground rods with bolts, or ground cable may be secured to legs and rods with stainless steel hose clamps or cable clamps. All connections must be mechanically secure, clean, or weather-proofed with Co-ax Seal(tm), or similar compound.

Coax cable braid is out. It acts like an inductor and raises path impedance. Soldered connections are also out; the solder will vaporize if your tower is struck. Use it only for corrosion protection.

Once the tower sections and legs are bonded together and grounded, tie the tower-leg ground rods together with strap or cable, using the same method used to connect legs to rods. Then tie this entire antenna support ground to a common utility or water-supply ground point.

The common tie-point is your home's AC wiring ground - at the outside service entrance. ALL ground cables from your tower or other antenna support structures, as well as any ground rods, are ultimately brought together here. They are tied (clamped) to either the utility-installed ground rod adjacent to the meter or to the heavy exterior conduit leading from the meter. An alternative, where ground-cable runs may be long or awkward, is the water-supply pipe to your house - before the meter and outside (assuming it is not rubber or plastic from a well).

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When all of this is done, you will have a continuous, low-impedance ground established from the top of your tower in common with your house ground. Both ground rods and cable are available from electrical contractors or possibly your utility company.

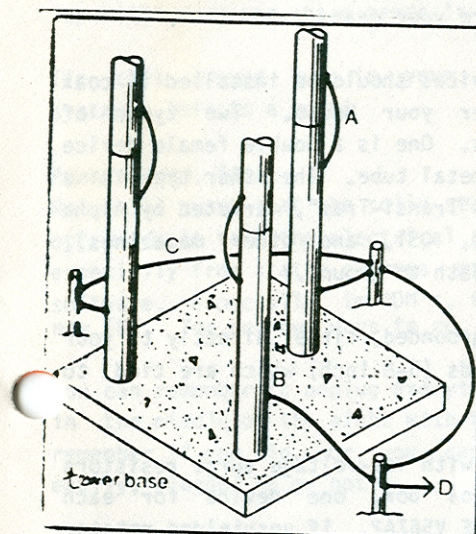


Fig 2- (A) Tower section joints bridged with ground strap or cable. (B) Each leg grounded to own ground rod. (C) Rods tied together with continuous conductor. (D) All tied to service entrance ground.

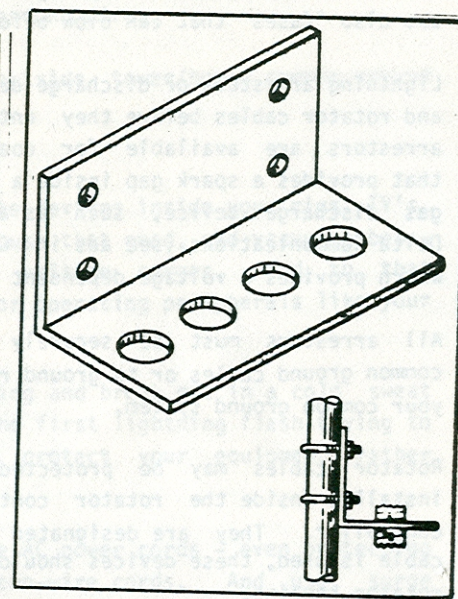


Fig. 3- One-quarter inch aluminum or steel angle plate drilled to accept coax feed-throughs as needed, and U-bolts to mount to tower leg. Mount so cable runs vertically to and from.

Now Your Antenna and Rotator Cables

Coaxial cable shields and rotator cable shields must also be grounded with the shortest, lowest impedance path possible. The objective is to prevent currents from flowing into your shack and/or household wiring.

Antenna and rotator cable shields may be tied to tower legs with ground straps. All ground ties must be straight and downhill and made mechanically and electrically secure. The method shown in figure 3 is recommended for antenna coax, rather than breaking cable insulation. There's a bit more work adding PL-259's, but it saves cable degradation and also gives you a convenient way to add or change cable runs. Rotator cable shield may be grounded by clamping not just soldering - a ground strap to the shield and running it a tower leg.

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Once cables have left your tower (with everything running in a downhill direction), you also want to add a bit more protection before they enter your house and shack. Make a one-turn loop in each cable segment between tower and shack. This will provide additional impedance for any lightning-induced currents. The loops are also "fuses" that can blow before your gear.

Lightning arrestors or discharge devices should be installed in coax and rotator cables before they enter your house. Two types of arrestors are available for coax. One is a double female device that provides a spark gap inside a metal tube. The other type is a gas discharge device, such as a "Transi-Trap", marketed by Alpha Delta Communications (see ads in CQ, QST, and other magazines), which provides a voltage dependent path to ground.

All arrestors must be securely grounded, either directly to your common ground cables or to ground rods (5-8 inch) which are tied to your common ground system.

Rotator cables may be protected with low-voltage surge resistors installed inside the rotator control box, one device for each controller. They are designated GE V56ZA2. If unshielded rotator cable is used, these devices should also be installed inside the rotator housing.

Why this attention to rotator cables? A local amateur, thoroughly familiar with tower installations, lowered his tilt-over tower and his antenna elements brushed against the 13K power lines at the rear of his lot. Sparks flew! It was discovered, after all the outdoor excitement, that damage was done inside as well. Currents flowing through connected rotator cable had gotten into his amateur gear and household wiring. Both the service panel and electronic equipment were damaged. Imagine what lightning could have done!

Now to the Inside

With everything taken care of outside, you now want to make certain that wire-carried or induced currents can do as little damage inside as well. That means isolating and grounding everything.

A separate AC line should be used from your service panel to shack, if at all possible. At least use a circuit that has nothing else on it - especially motors, if your computer is on line. This can help take care of RFI/TVI as well as helping lightning/surge protection.

A common ground bus - #8 copper wire, flat braided strap or even 1/2

inch copper pipe - is run from your operating position to ground. That ground is cold water plumbing (before the meter, if possible), not hot water pipes or electrical conduit. Or, a separate ground rod. Each piece of equipment is tied to this bus, individually. Include transmatch, rotator control box, and power supplies. Avoid "up-hill" runs and sharp bends in ground wires.

Tie this ground bus to your outside tower/house common ground system. This is a must!

Power Cords, Too

We're all aware that the solid-state devices inside your rigs, TV's, etc., don't take the electrical abuse that good, old vacuum tubes - especially from static charges or voltage surges. Add to that software, especially in ROM's, for operating peripherals like your new TNC. You got two ways to go.

You can remember to unplug everything and break out in a cold sweat in the middle of the night with the first lightning flash trying to remember if you did. Or, you can protect your equipment rather easily, plugged in or not.

As a first step, use three-wire AC power cords - even protecting "oldies but goodies" by replacing two-wire cords. And use, surge protectors and line cord filters throughout, between your gear and the AC outlet(s). If you're a home-brewer, include MOV surge protectors as part of the project. Remember, these methods work best when you have the proper equipment grounds.

Wrapping It Up

Your investment in amateur radio and household electronics that are exposed to and easily damaged by lightning-generated currents is considerable. It is worth the effort to plan for their protection - and the protection of your house - and do it as thoroughly as possible.

A well-grounded system, regardless of your antenna system's complexity or simplicity, has additional benefits. It's a vital part of preventing or reducing TVI/RFI. Antenna efficiency can be improved. Operating and maintenance safety is increased. You will also be protecting equipment and software from switching and nonlightning transients that often can cause damage.

This system approach to lightning protection is not a "quick fix". You won't do it in a day, since your time is limited. Start with

the tower and inside-the-shack grounds and work towards the middle as time and money permit. Once completed, you'll be secure for years to come.

1988 EVENTS

Dayton Hamvention = 29, 30 April, 1 May
Rochester Hamfest = 21 - 22 May
Rome Hamfest = 5 June
Batavia Hamfest = 10 July
Erie County Hamburg fair = 12 - 21 August
Ham - 0 - Rama (Niagara Falls) = 10 September

VE REPORT

by Rick Guzinski WB2EZU

The VE test session will take place = Hamburg Junior High, Wednesday, April 13, 1988 = 7:00 PM to 10:00 PM. Technician through to extra exams will be given. There will be no walk-ins. Please send your completed 610 form, a copy of your license and a check for \$4.55 made out to the ARRL/VEC before April 6, 1988 to:

Guz Guzinski WB2EZU = 627 3724
5084 Chapman Pkwy
Hamburg NY 14075

=/ /=

"FOR I D"

An asinine remark heard at times on repeaters is one of identifying. I've seldom heard it on the other bands, it goes like this, "W2ABC this is W2XYZ for I D". Why the "for I D" when identifying? That "for I D" really implies that the operator doesn't know he/she is identifying when saying "W2ABC this is W2XYZ". Perhaps the operator thinks everyone is stupid so he/she must tell them he/she is identifying.

The real corker happened the other night when two stations were talking back and forth for almost an hour with both identifying as

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above every 4 to 6 minutes or so. How disgusting! I hear this "for I D" often! Silly?

clipping submitted from QST
Hank K2EUS



STARS ROBERT COLMAN

Guz - WB2EZU

The April 7th meeting promises to be a good one, the flea market should be interesting so bring your want list and perhaps you can get it fullfilled. The 13th will find us at Hamburg Junior High conducting the VE exams. There will be no walk-ins. If anyone brings a 610 form (filled out) plus a check made out to ARRL/VEC for \$4.55 and present it at the April meeting we will make an effort to accommodate her/him. If you hold a tech license and is dated prior to March 21, 1987 please bring it, if you don't you will be required to take the written portion of the test (element 3B) in order to upgrade.

How many enjoyed the packet radio demo conducted at a previous meeting - John, KA2RFT, assembled a unit from the plans and will have it at the youth center on Wednesdays, March 30th and April 6th. With any luck we may have five new packet units on the air soon. Keep posted via the STARS nets (listed elsewhere).

Summer is fast approaching and the nuke base will be opening for the 1988 season. Last year a great deal of remodeling was completed. Hopefully, this year should present the opportunity of getting the equipment really running. You can, also, bring your own equipment and try out the club antennas.

see you April 7th

HAM GEAR

Amateur related gear

Wanted - Sale - Trade

WANTED = manual for Swan 350 - call Ralph, K2ZUW at 652 4044

FOR = SALE = Mirage amplifier, 430 to 450 MHz, model D301, 30 watts in - 100 watts out - \$200 = contact Matt, NS2M - 683 1720

FOR = SALE = H F EQUIPMENT = Heathkit HW 5400 10-80 Meters including WARC - Key Pad Frequency Entry - Optional filter installed = Heathkit HW 5400-1 - matching power supply = all manuals included = COMPUTER = ZORBA Portable - two disc drives, Z80, CPM operating system - 9" amber screen = Software - WordStar, CalcStar, DataStar,

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ReportStar, SpellStar, MailMerge, Terminal emulation software, C-Basic2 Compiler, communications programs - complete schematics - complete of software manuals = **Miscellaneous** = Hewlett-Packard 41CV - scientific calculator = contact H. Reid Bader at 655-0293

FOR = SALE - Hal ST-6000 RTTY terminal unit with C64 software cartridge, manual, \$300.00. Heath SB-610 monitor scope, manual, \$50.00. Several car stereo amplifiers, make offer. Free QST's, 70s & 80s, Jack, WB2SIB, 674-5679

FOR = SALE - Kenwood CW xtal filter, YK-88C 500 hz, new, unused, \$80, Marty KA2MXX, 434-7395

FOR = SALE - Electronic keyer w/built-in pwr supply, \$30, Kaz, WB2YCI 873-1751

WANTED = Kenwood At200 or similar version antenna tuner, Carmeno Queeno WB2CWS, 633-8673

WANTED = 2-meter base stn xcvr, Hank, KA2UYY, 835-9508

WANTED = Trimm featherweight high impedance earphones, Matt, K2MAC, 876-3250

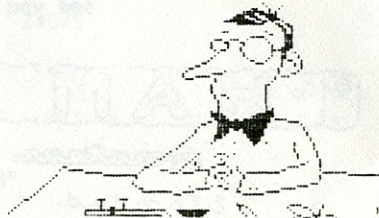


KA2RDH = Tony Kowalski to Advance

KA2SEZ = Nick Stanko to General

=/ /=

THE PREZ SEZ



If you missed the March General Meeting, you were one of the few. Over 50 people attended. These large attendances at the meetings are showing guests how supportive STARS Members are of their club. I've had many comments from guests on this and as a result, many of them have decided to fill out and application for STARS Membership.

Our guest speaker was Ray, N2DAY, area coordinator for the Amateur Radio Emergency Services (ARES). His talk included the importance of an Emergency Network in this area should an emergency

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or disaster occur where Amateur Radio is required. To find out more, check into the ARES Net Sunday Evenings at 1900 hrs on the 146.910/146.310 2 Meter Repeater. Remember, Ray can't do it alone.

With the help of Clint (N2FMM) our repeater chairman (me) announced a plan to link the 147.090 STARS Repeater with the N2FMM 145.290 Mayville Machine. The results of such an endeavor would mean clean communications from Erie, PA to Toronto Canada and Batavia via 2 Meter Mobile. Stay tuned for further information as it becomes available. I will try to have Norm, KD2KK, keep all informed of the progress on the Wednesday Night Net on the STARS Repeater. So don't forget to check in.

Our Vice President Larry, K2KVS, and our Co-Ham O Rama Representative Frank, KE2DG, promise us a Ham-O-Rama that will be bigger and better than ever this year. The plain truth is that STARS placed 5th of 6 Clubs in the points standing for 1987. As a result our Reps. are getting some great opportunities to get us up in the point standings this year. These opportunities do not even require us Southtowners to take long trips North to get points for the club. We will be handling the Bulk Mailing again this year which always proves to be a fun get-together for club members and their families. In addition we will be handling the "Talk In" the day of the HOR. If you can hit the 147.691 machine from your home QTH and can read a map, you can earn points for the club. Call or see Larry or Frank if you would like to help.

Don't forget about the flea market we will be having at the April Meeting. Bring your unwanted gear and your extra money and be ready to wheel and deal.

Do you know if a Balun is really required between coax and a random wire dipole antenna? Are there any 6 Meter nets in this area? What is doppler shift? Is the moon really made of RF reflective green cheese? If you have answers to any of these questions, why not write an article for the next telstar. Articles on just about any subject of interest will be accepted. Joe puts out a great paper but you can make it "Greater".

If anyone has ideas for programs to be put on at the meetings, please contact me. We'll try to make arrangements for a speaker or demonstration.

Stay Involved, Bill N2GAO

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FROM page 49 of April QST

The US Coast Guard is looking for amateur radio operators between the ages of 17 and 42 to serve in the telecommunications field. Veterans or those holding a current extra, advanced,

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general, or FCC second class radio telegraph license may be eligible for the direct petty officer program. For more info contact USCG Recruiting Office, 4360 Stevens Creek Blvd., Suite 104, San Jose, CA 95129-1122.



REPEATER NEWS

As of the last General meeting, which was the Bragg message contest dead line, only one member turned in Bragg Messages for the Bragg Message hearing my messages. For this reason, the deadline for the Bragg Message Contest has been moved up to the April 26th board Meeting. Voting will take place at that meeting, so get your message in. Note that the Bragg Message-test article has been reprinted this month along with the list of possible words.

The new receive crystal was installed the last week in February and seems to be doing just fine. I think we are out of the woods on our receive problems. Repeater Coverage is still reported to be excellent and will improve in the future. (See the Prez Sez Article for details) Repeater activity is up and several members have begun to use the new features such as Signal Strength tests and Autodial. There's still time to get in on the goodies with your minimum \$10 donation.

Autodial Slots are still available to those who donated towards the repeater fund. The autodial option allows you to call frequently dialed numbers by entering 3 or 4 numbers instead of 10 or 12. Think of how easy driving and phoning becomes. Call me to have your numbers entered.

Several members have asked me about the use of the custom hang up code and semi-private patch functions on the repeater. The custom hang up code will prevent malicious phone hang up during emergency calls. This in fact occurred on our repeater last summer. When a call was placed for a motorist transporting a severely injured child to the hospital, someone found recreation in disrupting the emergency patch by knocking it down several times and rendered the patch useless.

On the use of the semi-private patch cover tone; This option blocks out one side of the conversation during a patch. The use of this option should be used in a manner with in the guide lines of FCC Regulations (Part 96). That is to say that, for example, it should not be used to cover a conversation which could be considered to be that of a business nature. Use good judgement when selecting

telstar #92 (10)

this option.

Finally, It is EVERY club member's responsibility to be sure that repeater traffic is in accordance with the FCC Regulations. Consult your FCC Rule Book for proper (legal) operation practices.

Repeater Chairman

A	CHARLE	F	ICING	MEASURE	PERCENT	SHOWERS	TURN
ABORT	CHECK	FAIL	IDENTIFY	METING	PICURE	SHUT	TWELVE
ABOUT	CIRCUIT	FAILURE	IGNITE	MEGA	PLEASE	SIDE	TWENTY
ABOVE	CLEAR	FARENHEIT	IMMEDIATELY	MESSAGES	PLUS	SERRA	TWO
ACKNOWLEDGE	CLOCK	FAST	IN	METER	POINT	SIGHT	-TY(suffix)
ACTION	CLOSED	FEET	INBOUND	MIKE	POLICE	SIX	U
ADJUST	CODE	FF-	INCH	MILES	POSITION	SLEET	UNDER
ADVANCED	COME	FILED	INCREASE	MILLI	POWER	SLOPE	UNIFORM
ADVISE	COMPLETE	FINAL	INCREASING TO	MILLION	PRACTICE	SLOW	UNIT
AERIAL	COMPUTER	FIRE	INDICATED	MINUS	PRESS	SMOKE	UNLIMITED
AFFIRMATIVE	CONDITION	FIRST	INFLIGHT	MOBIE	PRIVATE	SNOW	UNTIL
AIR	CONGRATULATIONS	FIVE	INFORMATION	MODERATE	PROGRAMMING	SPEED	UP
AIRPORT	FLIGHT	FLAPS	-ING(suffix)	MONDAY	PULL	SQUAWK	USE(hour)
ALERT	FLOW	FOUR	INTRUDER	MORE THAN	PUSH	STALL	USE(verb)
ALL	CONNECT	FOURTH	IS	MOTOR	Q	START	V
ALLOFT	CONTACT	FOXTROT	IT	MOVE	QUEBEC	STOP	VALLEY
ALPHA	CONTROL	FREEDOM	J	MUCH	R	STORM	VARIABLE
ALTERNATE	CONVERGING	FREEDOM	JANUARY	N	RADIO	SYSTEM	VERIFY
ALTITUDE	COUNT	FREEDOM	JULY	NEAR	RAIN	T	VICTOR
AMATEUR	COURSE	FREEDOM	JUNE	NEAR	RANGE	TANGO	VISIBILITY
AMPS	CROSSWIND	FREEDOM	JULY	NET	RANGE	TANK	VOLTS
AND	CURRENT	FREEDOM	JUNE	NEW	RATE	TARGET	W
ANSWER	CYCLE	FREEDOM	JULY	NIGHT	READY	TAXI	WAIT
APRIL	D	FREEDOM	JUNE	NINE	RECEIVE	-TEEN(suffix)	WAKE
ARRIVAL	DANGER	FREEDOM	JULY	NO	RED	TELEPHONE	WARNING
AS	DAYS	FREEDOM	JUNE	NORTH	RELEASE	TEMPERATURE	WATCH
AT	DAYTON	FREEDOM	JULY	NOT	REMARK	TEN	WAY
AUGUST	DECEMBER	FREEDOM	JUNE	NOVEMBER	REMARK	TERMINAL	WEATHER
AUTO	DECREASE	FREEDOM	JULY	NUMBER	REPAIR	TEST	WEDNESDAY
AUTOMATIC	DECREASING	FREEDOM	JULY	L	REPEAT	-TH(suffix)	WELCOME
AUTOPILOT	DEGREES	FREEDOM	JUNE	LAND	REPEATER	THANK YOU	WEST
AUXILIARY	DEPARTURE	FREEDOM	JULY	LANDING	RICH	THAT	WHISKEY
B	DIAL	FREEDOM	JULY	LATE	RIG	THE	WILL
BAND	DINNER	FREEDOM	JULY	LAUNCH	RIGHT	THE(long e)	WRND
BASE	DIRECTION	FREEDOM	JULY	LEAN	OFF	THIRD	WTH
BATTERY	DISPLAY	FREEDOM	JULY	LEFT	OHIO	THRU	WRONG
BATTERY	DOOR	FREEDOM	JULY	LEG	OHIO	THRU	
BELOW	DOWN	FREEDOM	JULY	LESS THAN	OHIO	ROUTE	THIRTEEN
BETWEEN	DOWNWIND	FREEDOM	JULY	LEVEL	OIL	RUNWAY	THIS
BLOWING	DRIVE	FREEDOM	JULY	LIGHT	ON	S	THOUSAND
BOARD	DRIZZLE	FREEDOM	JULY	LMA	ON	(Suffix)	THREE
BOOST	DUST	FREEDOM	JULY	LINK	OPERATION	SAFE	THUNDERSTORMS
BOZO	E	FREEDOM	JULY	MAINFEST	OPERATOR	SAND	THURSDAY
BRAKE	EAST	FREEDOM	JULY	MANVENTION	OSCAR	SANTA CLARA	TIME
BRAVO	ECHO	FREEDOM	JULY	HAVE	OTHER	SATURDAY	TIMER
BREAK	-ED(suffix)	FREEDOM	JULY	HAZARDOUS	CUT	SCATTERED	TO
BROKEN	EIGHT	FREEDOM	JULY	HAZE	CUTER	SECOND	TODAY
BUTTON	ELEVATION	FREEDOM	JULY	HEAVY	OVER	SECONDS	TOMORROW
BY	ELEVEN	FREEDOM	JULY	HELP	OVERCAST	SECURITY	TONIGHT
C	EMERGENCY	FREEDOM	JULY	HENRY	M	SELECT	TORNADO
CABIN	ENGINE	FREEDOM	JULY	HERTZ	MACHINE	SEPTEMBER	TOW-DOWN
CAL BRATE	ENTER	FREEDOM	JULY	HIGH	MANTAIN	SECURENCE	TOWER
CALL	EQUAL	FREEDOM	JULY	HOLD	MANUAL	SERVICE	TRAFFIC
CALLING	DELTA	FREEDOM	JULY	HOME	MARCH	SET	TRANSMT
CALM	-ER(suffix)	FREEDOM	JULY	HOTEL	MARKER	SEVEN	TRM
CANCEL	ERROR	FREEDOM	JULY	HOUR	MAY	SEVERE	TUESDAY
CAUTION	ESTIMATED	FREEDOM	JULY	HOURS	MAYDAY	SEXY	TURBULANCE
CEILING	EVALUATE	FREEDOM	JULY	HUNDRED	ME	SHORT	
CENTER	EVAUATION	FREEDOM	JULY	I	ICE		
CHANGE	EXIT	FREEDOM	JULY	ICE			
	EXPECT	FREEDOM	JULY				

Repeat in part from a previous newsletter regarding the Repeater Brag Contest. Featured above is a vocabulary list contained in the RC-85 Repeater Controller. Put a message together which shows off STARS and/or the repeater and submit it to the club board. Should the board selects yours, you will be awarded a new Ham Radio Handbook or call book - second best gets a 1988 Repeater Directory and third a STARS club patch.

Rules:

- 1) "Brag about STARS", should be the theme used on the messages.
- 2) All entries submitted by the April 26th board meeting.

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general, or FCC second class radio telegraph license may be eligible for the direct petty officer program. For more info contact USCG Recruiting Office, 4360 Stevens Creek Blvd., Suite 104, San Jose, CA 95129-1122.



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ABOUT	CLEAR	FAILURE	IGNITE	MEGA	PLEASE	SIDE	TWENTY
ABOVE	CLIMB	FARENHEIT	IGNITION	MESSAGES	PLUS	SERRA	TWO
ACKNOWLEDGE	CLOCK	FAST	IMMEDIATELY	METER	POINT	SIGHT	-TY (suffix)
ACTION	CLOSED	FEBRUARY	IN	MILES	POLICE	SOX	U
ADJUST	CLUB	FEET	INBOUND	MILLI	POSITION	SLEET	UNDER
ADVANCED	CODE	FF-	INCH	MILLION	POWER	SLOPE	UNIFORM
ADVISE	COME	FILED	INCREASE	MINUS	PRACTICE	SLOW	UNIT
AERIAL	COMPLETE	FINAL	INCREASING TO	MINUTES	PRESS	SNOW	UNLIMITED
AFFIRMATIVE	COMPUTER	FIRE	INDIA	MIST	PRIVATE	SOUTH	UNLTL
AIR	CONDITION	FIRST	INDICATED	MOBILE	PROBE	SPEED	USE
AIRPORT	-CONDITION	FIVE	INFLIGHT	MODERATE	PROGRAMMING	SPRAY	USE (noun)
ALERT	CONGRATULATIONS	FLAPS	INFORMATION	MONDAY	PULL	SQUAWK	USE (verb)
ALL	CONNECT	FLOW	-ING (suffix)	MONTH	PUSH	STALL	V
ALLOT	CONTACT	FLOW	INSPECTOR	MORE THAN	Q	START	VALLEY
ALPHA	CONTROL	FOG	INTRUDER	MOTOR	QUEBEC	STOP	VARIABLE
ALTERNATE	CONVERGING	FOUR	IS	MUCH	R	STORM	VERIFY
ALTITUDE	COUNT	FOURTH	IT	J	RADIO	SUNDAY	VICTOR
AMATEUR	COURSE	FOXTROT	JANUARY	N	RAIN	SWITCH	VISIBILITY
AMPS	CROSSWIND	FREEDOM	JULY	NEAR	RANGE	SYSTEM	W
AND	CURRENT	FREEDOM	JUNE	NEARBY	T	W	WAIT
ANSWER	CYCLE	FREQUENCY	JULY	NET	TANGO	W	WAKE
APRIL	D	FRIDAY	JUNE	NEW	TANK	W	WAKE UP
AREA	DANGER	FRONT	K	NIGHT	TARGET	W	WARNING
ARRIVAL	DAYS	FULL	KEY	NO	TAXI	W	WATCH
AS	DAYTON	G	KILO	NORTH	-TEEN (suffix)	W	WATTS
AT	DECEMBER	GALLONS	KNOTS	NOT	RELEASE	W	WAY
AUGUST	DECREASE	GATE	L	NOVEMBER	REMARK	W	WEATHER
AUTO	DECREASING	GEAR	LAND	NUMBER	REPAIR	W	WEDNESDAY
AUTOMATIC	DEGREES	GET	LANDING	O	REPEAT	W	WELCOME
AUTOPLOT	DELTA	GLIDE	LATE	OBSCURED	REPEATER	W	WEST
AUXILIARY	DEPARTURE	GO	LAUNCH	OCCLOCK	RICH	W	WHISKEY
B	DINNER	GOOLP	LEAN	OCTOBER	RIG	W	WILL
BAND	DIRECTION	GREEN	LEFT	OFF	RIGHT	W	WIND
BANK	DISPLAY	GROUND	GUSTING TO	OF	ROAD	W	WITH
BASE	DOOR	H	LESS THAN	OHIO	ROGER	W	WRONG
BATTERY	DOWN	HAIR	LEVEL	ORNS	ROUTE	W	X
BELOW	DOWNWIND	HALF	LIGHT	OIL	RUNWAY	W	X-RAY
BETWEEN	DRIVE	HAIR	LMA	ONE	S	W	Y
BLOWING	DRIZZLE	HAIR	LINE	OPEN	- (suffix)	W	YANKEE
BOARD	DUST	HAIR	LIST	OPERATION	SAFE	W	THUNDERSTORMS
BOOST	E	HAIR	MANIFEST	OPERATOR	SAND	W	THURSDAY
BOZO	EAST	HAIR	MANIFESTION	OSCAR	SANTA CLARA	W	TIME
BRAKE	ECHO	HAIR	LOCK	OTHER	SATURDAY	W	TIMER
BRAVO	-ECHO (suffix)	HAIR	LONG	OUT	SCATTERED TO	W	TO
BREAK	ELEVATION	HAIR	LOW	OUTER	SECOND	W	TODAY
BROKEN	ELEVEN	HAIR	HELP	OVER	SECONDS	W	TOMORROW
BUTTON	EMERGENCY	HAIR	HENRY	OVERCAST	SECURITY	W	TONIGHT
BY	ENGINE	HAIR	HERTZ	P	SELECT	W	TOOL
C	ENTER	HAIR	HOLD	P.M.	SE PTEMBER	W	TORNAADO
CABIN	EQUAL	HAIR	HOLD	PAPA	SEQUENCE	W	TOW-DOWN
CALIBRATE	EQUAL	HAIR	HOLD	PARTIALLY	SERVICE	W	TOWER
CALL	-E (suffix)	HAIR	HOUR	PASS	SET	W	TRAFFIC
CALLING	ERROR	HAIR	HOURS	PATCH	SEVEN	W	TRANSMIT
CALM	ESTIMATED	HAIR	HUNDRED	ME	SEVERE	W	TRM
CANCEL	EVAQUATION	HAIR	ICE	MEAN	SHORT	W	TUESDAY
CAUTION	EXIT	HAIR	ICE	MEAN	SHORT	W	TURBULANCE
CEILING	EXPECT	HAIR	ICE	MEAN	SHORT	W	TURBULANCE
CENTER		HAIR	ICE	MEAN	SHORT	W	TURBULANCE
CHANGE		HAIR	ICE	MEAN	SHORT	W	TURBULANCE

Repeat in part from a previous newsletter regarding the Repeater Brag Contest. Featured above is a vocabulary list contained in the RC-85 Repeater Controller. Put a message together which shows off STARS and/or the repeater and submit it to the club board. Should the board select yours, you will be awarded a new Ham Radio Handbook or call book - second best gets a 1988 Repeater Directory and third a STARS club patch.

Rules:

- 1) "Brag about STARS", should be the theme used on the messages.
- 2) All entries submitted by the April 26th board meeting.

telstar #92 (11)

3) Message length as follows;

a) 48 characters maximum for special ID and must contain call WB2ELW.

b) 24 characters maximum for pending ID and contain call WB2ELW.

NOTE: a word counts as two characters and letter or number as one character = example - welcome 2 the repeater - counts as seven total characters.

You may submit a special ID, a pending ID, or both if you so choose.

4) You may submit as many messages as you wish, however, only one prize per person will be awarded. Send them to any board member or submit them at the April board meeting at the latest.

=/ /=

US AMATEUR FREQUENCIES THREATENED BY CANADIAN RECLASSIFICATION

TORONTO, Feb 8, 1988: American as well as Canadian amateur operations could be seriously threatened if Canada's Department of Communications (DOC) succeeds in its plan to reclassify a meteorological aid as a radiolocation device.

The intent of the DOC reclassification is to allow a meteorological aid to be operated within the 430 to 450 MHz amateur band. Such a frequency assignment to a meteorological aid is in contravention of an international frequency band plan treaty to which Canada is a signatory.

Radiolocation devices, however, can be assigned frequencies in this band and DOC has used reclassification as an opportunity to seize valuable amateur spectrum.

The very real danger to amateurs in the United States is that once Canada reclassified a meteorological aid as a radiolocation device, there would be virtually irresistible pressure in the US for the FCC to do likewise.

The impact on amateurs in the US could be devastating. Existing and future satellite uplinks could be rendered useless, ATV, weak signal and EME operations could become impossible in many areas; and FM repeaters could be forced out of the band completely.

The meteorological aid in question is a high powered, triple beam, broad band Clear Air Doppler Radar (CADR) system. CADR systems are now operating in the US on the meteorological aid frequency of 404.37 MHz where they pose no direct threat to amateur operations. These and future installations could be moved to the 70 cm amateur band, however, if CADR is reclassified.

CADR is a research system designed to study high altitude wind

telstar #92 (12)

profiles. As such it clearly and correctly falls within the definition of Meteorological Aids Service: "A radiocommunication service used to meteorological, including hydrological, observation and exploration.

If the Canadian DOC reclassification is permitted to proceed, it would also set a dangerous precedent. Any radio service could be reclassified at the whim of a civil servant. This must not be allowed to happen, in Canada or the U.S.

US amateurs are urged to fight this serious problem by writing their elected officials in Washington, urging them to file diplomatic protests with the Canadian government on behalf of US amateurs. The fate of the 70 cm band in the United States could be at stake.

US amateurs should also write the IARU and ARRL urging these organizations to take immediate action to fight the Canadian reclassification. The address are: = Mr. Richard L. Baldwin, President - International Amateur Radio Union - HC 60 Box 60 - Waldoboro ME 04572 = = Mr. Larry E. Price, President - American Radio Relay League - 225 Main Street - Newington CT 06111.

=/ /=

It is difficult to express words of sympathy as well as one's thought and innermost feelings when someone departs from this material earth - undoubtedly the membership expresses its condolences to the family and loved ones of Joe "Guz" Guzenski (WB2EZU) on the loss of his wife:

Sophie R. Guzenski

who died March 17, 1988.

/= =/

continuing with the

THE SINKING OF THE ANDREA DORIA
by Raymond Maurstad, W2JNA/MM
on board the SS Robert E. Hopkins

GMT

- 0727 R. HOPKINS TO STOCKHOLM: DID YOU GET COMPANY FOR NEW YORK.
0730 ILE DE FRANCE TO CAPE ANN: MESSAGE TO MASTER -- HOW MANY RESCUED PEOPLE DO YOU HAVE ON BOARD.
0737 CAPE ANN TO ILE DE FRANCE: WE HAVE ABOUT 200 SURVIVORS WITH MORE COMING.
0738 R. HOPKINS TO ILE DE FRANCE: ARE YOU HANDLING DISTRESS

telstar #92 (13)

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telstar #92 (12)

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0738 R. HOPKINS TO ILE DE FRANCE: ARE YOU HANDLING DISTRESS

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TRAFFIC.

- 0738 ILE DE FRANCE TO R. HOPKINS: ROGER.
0739 R. HOPKINS TO ILE DE FRANCE: WE HAVE TWO BOATS ON WAY TO A.D.
0740 PVT. THOMAS TO ILE DE FRANCE: WE HAVE ABOUT 50 SURVIVORS
ABOARD NOW AND BOATS BRINGING MORE.
0741 R. HOPKINS TO STOCKHOLM: DID YOU GET ANY SURVIVORS.
0741 STOCKHOLM TO R. HOPKINS: AM FINDING OUT HOW MANY.
0745 CAPE ARGONA TO STOCKHOLM: NOW ARRIVING AT POSITION, WILL LOWER
LIFEBOATS AS SOON AS POSSIBLE.
0747 STOCKHOLM TO A.D.: LAUT ARRIVING 1100GMT FOUR BOATS.
0748 CAPE ANN TO PVT. THOMAS: CORRECTING, WE HAVE ABOUT 120
SURVIVORS ABOARD NOW.
0750 STOCKHOLM TO CHATHAM RADIO: PLEASE SEND THIS TO NEAREST COAST
GUARD -- FROM SS STOCKHOLM -- WE HAVE THREE CASUALTIES ABOARD
OUR SHIP FROM ANDREA DORIA WHO NEED IMMEDIATE MEDICAL
ATTENTION. PLEASE ADVISE IF POSSIBLE SEND HELICOPTER TO OUR
POSITION LATITUDE 4034 NORTH 6946 WEST.
0751 CHATHAM RADIO TO STOCKHOLM: I ACKNOWLEDGE YOUR MESSAGE.
0753 ILE DE FRANCE TO ANDREA DORIA: MESSAGE TO COMMANDANT ANDREA
DORIA -- INTEND TO RETURN FULL SPEED TO NEW YORK AS SOON AS
POSSIBLE WHEN YOU RELEASE ME. ARE YOU ABANDONING SHIP OR DO
YOU STAY ON BOARD WITH A PARTY. PLEASE LET ME KNOW YOUR
INTENTIONS. HOW MANY PERSONS HAVE YOU STILL GOT ON BOARD TO
EVACUATE MORE OR LESS SIGNED MASTER ILE DE FRANCE.
0754 ANDREA DORIA TO ILE DE FRANCE: ROGER YOUR MESSAGE.
0755 PVT. THOMAS TO STOCKHOLM: THIS IS A U.S. NAVY VESSEL AND WE
HAVE A DOCTOR AND HOSPITAL STAFF ON BOARD.
0756 PVT. THOMAS TO ANDREA DORIA: THIS IS A U.S. NAVY VESSEL AND WE
HAVE A DOCTOR AND HOSPITAL STAFF ON BOARD.
0801 A.D. TO PVT. THOMAS: CAPTAIN ASKING IF YOU CAN STAND BY
ASSISTING US UNTIL ARRIVAL OF TWO CG SHIPS AND IF YOU CAN SEND
MOTORBOAT TO STAY NEAR THIS SHIP.
0803 PVT. THOMAS TO A.D.: WE HAVE BEEN GETTING SURVIVORS FROM YOU,
HAVE TWO MOTOR LIFEBOATS IN WATER COMING NOW.
0804 A.D. TO PVT. THOMAS: PLEASE ANSWER IF YOU CAN STAND BY UNTIL
CG SHIP ARRIVES HERE.
0805 U.S. NAVY SHIP TO PVT. THOMAS: I HAVE A MESSAGE FOR YOU.
0807 PVT. THOMAS TO U.S. NAVY SHIP: GO ON RADIOTELEPHONE 2670
KILOCYCLES.
0807 SECOND U.S. NAVY SHIP: ARRIVING 1200 GMT.
0808 STOCKHOLM TO A.D.: USCG EVERGREEN WILL BE AT POSITION 1200GMT.
0810 A.D. TO PVT. THOMAS: WE WANT TO KNOW IT.
0810 PVT. THOMAS TO A.D.: WE WILL STAND BY.
0812 MAURETANIA TO ILE DE FRANCE: I HAVE A MESSAGE FOR YOU.

to be continued

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W1AW Schedule

April 3-October 29, 1988

MTWThFSSn = Days of Week

Dy = Daily

W1AW code practice and bulletin transmissions are sent on the following schedule:

UTC	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 0200, 1300, 2300; TThSSn: 2000; Sn: 0200 MWF: 2000; TTh: 0200, 1300; TThSSn: 2300; S: 0200 Dy: 0000, 0300, 2100; MTWThF: 1400 Dy: 0100, 0400, 2200; MTWThF: 1500 Dy: 0130, 0430
EDT	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 9 AM, 7 PM; TThSSn: 4 PM, 10 PM MWF: 4 PM, 10 PM; TTh: 9 AM; TThSSn: 7 PM Dy: 5 PM, 8 PM, 11 PM; MTWThF: 10 AM Dy: 6 PM, 9 PM, 12 PM; MTWThF: 11 AM Dy: 9:30 PM, 12:30 AM
CDT	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 8 AM, 6 PM; TThSSn: 3 PM, 9 PM MWF: 3 PM, 9 PM; TTh: 8 AM; TThSSn: 8 PM Dy: 4 PM, 7 PM, 10 PM; MTWThF: 9 AM Dy: 5 PM, 8 PM, 11 PM; MTWThF: 10 AM Dy: 8:30 PM, 11:30 PM
MDT	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 7 AM, 5 PM; TThSSn: 2 PM, 8 PM MWF: 2 PM, 8 PM; TTh: 7 AM; TThSSn: 5 PM Dy: 3 PM, 6 PM, 9 PM; MTWThF: 8 AM Dy: 4 PM, 7 PM, 10 PM; MTWThF: 9 AM Dy: 7:30 PM, 10:30 PM
PDT	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 6 AM, 4 PM; TThSSn: 1 PM, 7 PM MWF: 1 PM, 7 PM; TTh: 6 AM; TThSSn: 4 PM Dy: 2 PM, 5 PM, 8 PM; MTWThF: 7 AM Dy: 3 PM, 6 PM, 9 PM; MTWThF: 8 AM Dy: 6:30 PM, 9:30 PM

Code practice, Qualifying Run and CW bulletin frequencies: 1.818, 3.58, 7.08, 14.07, 21.08, 28.08, 50.08, 147.555 MHz.

Teleprinter bulletin frequencies: 3.625, 7.095, 14.095, 21.095, 28.095, 147.555 MHz.
Voice bulletin frequencies: 1.89, 3.99, 7.29, 14.29, 21.39, 28.59, 50.19, 147.555 MHz.

Slow code practice is at 5, 7½, 10, 13 and 15 WPM.
Fast code practice is at 35, 30, 25, 20, 15, 13 and 10 WPM.

On Monday, Wednesday and Friday, 1300 through 2100 UTC, transmissions are beamed to Europe on 14, 21 and 28 MHz; on Wednesday at 2200 UTC they are beamed south.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds. For example, "Text is from June 1987 QST, pages 9 and 70" indicates that the main text is from the article on page 9 and the mixed number/letter groups at the end of each speed are from the contest scores on page 70.

On Fridays, UTC, a DX bulletin replaces the regular bulletin transmissions.

On Tuesdays and Saturdays at 2230 UTC, Keplerian Elements for active amateur satellites will be sent on the regular teleprinter frequencies.

Teleprinter bulletins are 45.45-baud Baudot, 110-baud ASCII and 100-baud AMTOR, FEC mode. Baudot, ASCII and AMTOR (in that order) are sent during all 1500 UTC transmissions, and 2200 UTC on WThFSn. During other transmission times, AMTOR is sent only as time permits.

CW bulletins are sent at 18 WPM.

W1AW is open for visitors Monday through Friday from 8 AM to 1 AM EDT and on Saturday and Sunday from 3:30 PM to 1 AM EDT. If you desire to operate W1AW, be sure to bring a copy of your license with you. W1AW is available for operation by visitors between 1 and 4 PM Monday through Friday.

In a communications emergency, monitor W1AW for special bulletins as follows: voice on the hour, teleprinter at 15 minutes past the hour, and CW on the half hour.

W1AW will be closed on April 1, May 30, July 4 and September 5.