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# THE



# CANADIAN

# AMATEUR

VOLUME ONE

OCTOBER, 1973

NUMBER EIGHT

## A LETTER TO AMATEURS ACROSS CANADA

Dear OM/YL:

This joint letter is addressed to all licenced Amateurs in Canada in order to set at rest, once and for all, any misconceptions regarding the relations existing between the Canadian Division of the American Radio Relay League and the Canadian Amateur Radio Federation. Much has been printed in Amateur publications and said over the air on this subject, a good deal of it based on misunderstanding and lack of communication.

During a recent meeting between the President of A.R.R.L., the President of C.A.R.F., and officials of both, it was quickly agreed that the aims of both organizations are basically the same, namely the furtherance and protection of the Amateur Service and representation of the individual radio amateur as and when necessary.

In many fields we can do a much better job together than can be done separately; in some, one of us may presently excel. One of the latter is the dissemination of news through The Canadian Amateur by the Federation. It was agreed that the two bodies would join in this function -- the present Canadian Division Newsletter addressees will receive The Canadian Amateur instead.

There are several additional areas in which co-operation is possible and desirable; these include joint submissions to the Department of Communications, emergency communications, FM repeaters, and so on. Further discussions will take place on such subjects in the future in the hope of better serving our fellow Canadian Amateurs.

73,

Noel B Eaton, VE3 CJ  
Director Canadian Division  
American Radio Relay League, Inc.

Arthur E Blick, VE3 AHU  
President  
Canadian Amateur Radio Federation, Inc.

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- Amateur Radio League of  
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- New Brunswick Amateur  
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- Radio Society of Ontario, Inc.
- Amateur Radio League of Alberta
- British Columbia Amateur  
Radio Association
- Amateur Radio League  
of Manitoba

## The Canadian Amateur

Official Journal of the Canadian Amateur Radio  
Federation Inc., Published Monthly  
Managing Editor: Steve Campbell  
News Bulletin Editor: Doug. Burrill, VE3CDC

Volume 1      OCTOBER, 1973      Number 8

The Canadian Amateur, published monthly on a National basis is the official Journal of the Canadian Amateur Radio Federation Inc. It is available on a subscription basis at a cost of \$4.00 yearly membership.

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All correspondence is welcomed and should be addressed to the Editor, The Canadian Amateur, Canadian Amateur Radio Federation, Inc. P. O. Box 356, Kingston, Ontario

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### Rules: W/VE SATELLITE AWARD

1. The W/VE Satellite Award is available to any licenced amateur in the world.
2. W/VE stations must contact, on any mode, any four Canadian call areas (VO1, VO2, VE0, VE 1, 2, 3, 4, 5, 6, 7, 8) via an amateur satellite.
3. DX stations including KL7 and KH6 must contact any two Canadian Call areas.
4. Only contacts after January 1, 1973 will qualify for this award.
5. An application will consist of the QSL cards accompanied by a fee of 25 cents for W/VE or one IRC for DX stations. Include sufficient IRCs if cards are to be returned by registered mail.
6. Send cards and fees to:

Committee Chairman,  
Ray J. Nadeau, VE6SF  
P.O. BOX 52  
Barrhead, Alberta.

This award is sponsored by the Northern Alberta Radio Club and is designed primarily to develop a greater interest in amateur satellite communications.

### 4C Award

(Canadian County Century Club Award—'4C Award') open to worldwide participation.

1. All contacts after January 1, 1973 can be applied towards the award.
2. A certificate will be awarded to the amateur station who contacts 100 counties/or districts in Canada.
3. Endorsement stickers will be awarded after contacting 150, 200, ... ? counties/districts.
4. Detailed rule sheets and counties/districts lists will be sent on request (still in preparation) include SASE.
5. All modes may be used; however—no repeater assistance or relaying of information by other stations is allowed.
6. All Amateur bands may be used.
7. Verified log sheets must be submitted to the Scarborough Amateur Radio Club contest co-ordinator along with \$1.00 or 10 IRC's when application is being made for the award. Mail to Bill Cate, VE3HR, 169 Harewood Avenue, Scarborough, Ontario, Canada.
8. Endorsement stickers will be awarded at no cost.

(From Ontario Amateur Issue 3, 1973)

## PRESIDENT'S MESSAGE

Elsewhere on the pages of this issue will be found concrete evidence of the atmosphere of cordiality and co-operation that now permeates the relations between your National Federation and the American Radio Relay League. Our basic aim is the same—the betterment of the Amateur Experimental Service. By combining the resources available to both organizations, the aim will be much better realized. Differences in opinion and outlook will undoubtedly exist but the officials of CARF and ARRL are determined to resolve these in a friendly manner, at our level, before proceeding with representation to the various government departments and agencies.

One aspect of these relations is the realization by the League of the importance of the information services of the Federation. These include the CARF Bulletin Service, the CARF News Releases and The Canadian Amateur. The Bulletins, necessarily brief, are circulated by the existing Amateur communication links for rapid dissemination of important events affecting the Amateurs of Canada. The News Releases are mailed to Editors of provincial publications for their use, and The Canadian Amateur, available to any Amateur on an annual basis (\$4.00 per year), contains full information on Amateur affairs. The Canadian Director ARRL has requested that he use the services available for circulating ARRL information, News Letters, etc., and that copies of T.C.A. be sent to various ARRL officials and Affiliated clubs with the League billed for expenses incurred. This request has been granted, starting with the October issue, and we both look forward to, and expect, a substantial increase in circulation as a result.

Some minor changes will be effected in the committee structure of the Federation. The DOC/CARF Liaison and Regulations Advisory committee combined in a DOC Liaison committee under the chair of Art Stark, VE3 ZS; and a Communication committee under the chair of Doug Burrill, VE3 CDC are presently projected with the duties of the Auto-Repeater Advisory and Communications committee enlarged to enable their participation in the Canadian Advisory Groups that are being formed under the joint sponsorship of the Federation and the Cdn. Div. ARRL.

The objectives of the Federation have not changed. These include 100% membership of the provincial Amateur organizations and international recognition of the Federation as the national Amateur organization. I sincerely believe that these can be more readily accomplished with the support and co-operation of the League and with no merger nor amalgamation necessary.

AEB/VE3 AHU.

### AUTHORITY TO OPERATE IN THE U.S.A.

The national Federation has copies of the F.C.C. Form 410. This Form, properly filled out and stamped, is necessary for Canadian Amateurs to operate their equipment while in the United States. Send a self-addressed, stamped address envelope (marked U.S. FORM) to C.A.R.F., Box 356, Kingston, Ont., K7L 4W2.

### THEIR LAST CO.

The Amateur world has been saddened by the recent deaths of two prominent members of the fraternity—Leon Foster Brown, VE3 MW, and Harley Richardson. VE1 IE.

Leon had been active in the communications field for nearly forty years as a commercial operator, DOT Radio Inspector and Amateur. Originally from SW Ontario, he made his home lately in Kingston where he was active in Club affairs, serving a full term as President of the KARC. He was also one of the "signing" Directors of the national Federation on our original application for Letters Patent.

Harley was best known for the signal he put out from Grand Manan Island, N.B. Always courteous, he went out of his way to help other Amateurs, to relay traffic from overseas, and to assist beginners (and more proficient Amateurs) into the full realization of the worth of our hobby. "The Voice of Grand Manan" will be sorely missed from the bands.

### OSCAR 6 — NEW SCHEDULE

12 Sept. 1973 — The Oscar 6 operating schedule has been modified to provide greater battery recharge periods. Under the new schedule, the satellite will be available for use on Monday, Thursday, and Saturday (GMT) on ascending (south to north) passes only. These passes are within range of stations in your area in the evening your local time. The satellite will not be available during descending (north to south, or "morning") passes.

All users of Oscar 6 are requested to observe the above schedule, and to refrain from transmitting to the satellite during "off" times if the satellite happens to be "on". The co-operation of all users is necessary to maximize the life of the satellite.

Please inform all amateurs in your country of the new Oscar 6 schedule.

### TRAFFIC PRIVILEGES WITH FOREIGN COUNTRIES

From time to time the Federation is requested to obtain Third Party traffic handling privileges between Canada and another country. Obtaining such an agreement is a long, drawn-out affair requiring diplomatic negotiations and cannot be entered into unless the Government of Canada feels that the expenses involved will benefit a substantial number of Amateurs. It is certainly not, as some seem to think, merely a question of CARF or DOC phoning the Embassy of some other country and reaching some quick agreement.

A definite need must be demonstrated—i.e. how many Canadian Amateurs and citizens resident in the other country and how many Amateurs and citizens of the other country resident in Canada, would make use of this facility? All negotiations are channelled through the Department of External Affairs and the time and negotiation procedures are usually lessened where the request is made by the national Amateur organization of the country involved jointly with the Federation. It is important that any request made to the Federation contain as many statistics as possible, to give weight to our request.



## CANADIAN CAPSULE COMMENT

### VE NEWS

Rowland C. E. Beardow, VE3 AML, the columnist responsible for VE NEWS is on vacation visiting the sunny shores of Spain. It is indeed difficult to write a topical column when you are a few thousand miles away from the scene of action so his column will be missing until Rowland returns. We all wish Rowland and his XYL, Rosalind, a safe, happy sojourn overseas and look forward to the resumption of VE NEWS on his return.

### DOC NEWS

Your national Federation has requested the DOC to include a new section in the Regulations dealing specifically with the Amateur Experimental Service to govern the licencing and operation of Auto-repeaters

1. Automatic repeaters shall operate on frequencies in the Amateur bands above 50 Mcs.
2. Remote control transmissions shall be made on frequencies in the Amateur bands above 50 Mcs.
3. Point-to-point transmissions between two or more automatic repeaters shall be made on frequencies in the Amateur bands above 220 Mcs.

The Department is also requested to include any other necessary controls as "Guide Lines" similar to the present Interim Guide Lines for Auto Repeater operation, etc.

This request stems from the comment received by the national Federation through the provincial Amateur societies and from Amateur repeater licencees. All were unanimous in wanting a simple, brief Regulation authorizing such operation with other necessary controls continuing as Guide Lines.

The Department of Communications has announced that a reciprocal licencing agreement for the Amateur service has been signed by Canada and Denmark. The effective date of this agreement is 12 Sept. 1973.

### ONTARIO NEWS

A National Forum was held during the annual R.S.O. Convention in Kingston with approximately 115 Amateurs in attendance. The President and Canadian Director A.R.R.L., the President and Ontario Director C.A.R.F. and Mr. L. Greenwood of the DOC Ontario Regional Office comprised a panel of "experts" and, under the chair of Bill Loucks VE3 AR, President of R.S.O., discussed several topics of interest and answered questions from the floor.

One topic that engendered lively discussion was the desirability of adding a lower class and an "extra" class to the existing Amateur and Advanced Amateur grades. Raised hand vote was taken on the two classes. A large majority expressed desire to see a lower class added and that this class not be restricted to VHF/UHF operation only. Only two hands were raised in support of an "Extra class".

Discussion on this topic ended with the President CARF and Cdn. Dir. ARRL agreeing to get together and see if they can work out the details for adding a lower class certificate and then publicising these to the Amateurs for their concurrence.

Harry Dannals, W2TUK, the President ARRL gave a rundown on the 220 MHz situation in the U.S.A. and the work that was being done by the League to

counteract the request made to the FCC to release a portion of this Amateur band in the USA to the Citizens Radio Service (CB).

A Working Group of Ontario Repeater licencees was later held under the chair of George Davis, VE3 BBW, R.S.O. Repeater Advisory committee. Tony Vandenberg, VE3FXG, CARF Auto-repeater Advisory committee presented the VE3 BTS report on the standardization of repeater channels. Agreement on standardization was unanimous but the frequency plan contained in the report was left until later.

Howard Cowling, VE3 WT, of the Western New York and Southern Ontario Council, gave a detailed description of the ARRL Two Meter band plan. The necessity for band planning on 420 MHz and the necessity of setting aside channels for ATV operation was also discussed during the seminar.

### ALBERTA NEWS

Western travelling Amateurs will welcome the news which Otto Meginbir, VE6 OH, President of the Alberta Amateur Radio League gave to the Federation. There is to be a new repeater set up in the Cypress Hills Provincial Park near Elkwater Lake. The rig will be mounted on a 100 foot tower. More details as to frequencies and power will be publicised when they are available.

### NEW BRUNSWICK NEWS

The following officers have been appointed by the New Brunswick Amateur Radio Association for the 1973-74 year:

President — Richard Shepherd, VE1ATG, Vice-President — Barb Shepherd, VE1 AAO; Secretary — Ron Smith, VE1 ADT, Box 682, Bathurst, N.B.; Treasurer — Mark Reece, VE1 APX; CARF Delegate — Mike Koval, VE1 AJI. Please address all correspondence to the Secretary.

### NOVA SCOTIA NEWS

The Nova Scotia Amateur Radio Association announces a new slate of officers for the year 1973-74.

President—Stan Brooks, Box 173, Weymouth;

1st Vice-President—Ron Demers, VE1 JA;

2nd Vice-President—M. Ross, VE1 QM;

Secretary-Treasurer—Christine Weeks, VE1 AKO Grantville, R.R. 1, Cleveland, Richmond County, Nova Scotia.

### VE3 RCMP RETURNS

The RCMP centennial station, VE3 RCMP, the only existing call in the Amateur world with a four letter suffix, has resumed operations from the QTH of VE3 AUM after being forced out of the RCMP Centennial Exhibition site in Ottawa by fire last month. Permission has been granted to extend operation to 31 Dec. 1973. There will be no regularly scheduled operation but the station will still be heard on 80, 40, 20, and 2 meters. It will be most active on weekends and evenings EST. Amateurs experiencing a long delay in obtaining the special QSL cards should contact VE3 AUM.

**A.R.R.L. NEWS**

H. H. (Shep) Shepherd, VE3 DV, of Ottawa has been appointed to the ARRL committee in the USA which is studying the emergency use of Amateur radio in the U.S., especially the problems arising from the use and misuse of the RACES system and its competition with the ARRL-sponsored AREC in the U.S. Shep's appointment will provide liaison between the ARRL committee and the National Emergency Communications committee of the national Federation which is co-operating with the Canada Emergency Measures Organization in that agency's present study of the use of the Amateur Experimental Service in emergencies.

A second appointment which was announced during the Repeater Seminar at the R.S.O. convention in Kingston was that of Howard Cowling, VE3WT, of St. Catharines, to the ARRL National VHF Repeater committee in the United States. This appointment also will give the proposed Canadian Repeater Advisory Group a pipeline into the U.S. ARRL committee and vice versa. While there is little of common concern at the moment, problems involving interference in border areas and the compatibility of various frequency plans will no doubt require some across-the-border talks.

These two channels of liaison will be useful on an informal basis. While they will not replace the Federation's briefs to the DOC on matters pertaining to international problems involving the FCC, they will undoubtedly assist each organization in building up background information to use in their briefs to their respective regulatory agencies.

**INTERFERENCE PROBLEMS?**

The following true story was presented to me by Eric Rush, VE3XL, which shows that not all interference is strictly due to your transmitter or the set that you are interfering with.

As a result of complaints concerning transmissions by an Amateur that affected television reception on channels 2, 4 and 6 over a half mile area, extensive checks were made on the equipment which consisted of a Drake T4 transmitter and National NCL 2000 Linear fed into a 4 element Telvex beam. Using a Field Strength Meter, it was determined that the harmonic radiation was not due to faulty equipment. F/S readings six feet from the transmitter, average 1000uV on 56, 70 and 84 MHz. Continuing the measurements outside the Amateur's home, it was discovered that the F/S readings increased to 2 mV near a metal downspout which was quite rusty. After replacing the pipe, the harmful harmonic radiation disappeared and repeated F/S readings near the transmitter showed a drop to an average of 100 uV on the three aforementioned frequencies.

(Credit South Waterloo Amateur)

A Ham was bothered with QRM from a local power transformer. He had heard somewhere that the DOC make a test for this sort of trouble by giving the suspected pole a good bang with a sledge hammer. So, armed with a large axe, he sallied forth. First pole, a solid jolt with the axe, no luck, noise still there. Second pole, another solid jolt. Eureka, noise stopped. For good measure he gave it a second husky wallop. The result was disastrous. The transformer came down. This method considered effective but too drastic.

(Credit Lakehead Hi-Q)

**CANADIAN RADIO REGULATIONS HANDBOOK**

The national Federation publishes the Canadian Amateur Radio Regulations Handbook, containing the 'official' interpretation of the Radio Regulations affecting Amateur Radio and much more valuable information on station licensing and operation. This Handbook is a "must" for any Amateur operating in Canada and can be obtained by sending \$2.55 by cheque or money order to C.A.R.F., Box 356, Kingston, Ont., K7L 4W2.

**QSL BUREAU CHANGE**

The Yellowknife Centennial A.R.C. is no longer active and the VE8 QSL Bureau is now operated by Frank Van der Zande, VE8 OO, P.O. Box 72, Fort Smith, NWT., XOE OPO.

**LITTLE KNOWN SCIENTIFIC PRINCIPLES**

Compilation of very important but little known Scientific Principles Related to Certain Peculiar Laws of Inexactitude, Perversity and Whimsey in Scientific Endeavour.

**Murphy's Law**

If something can go wrong, it will.

**Skinner's Constant**

That quantity which, when multiplied by, divided by, added to, or subtracted from the answer you get, gives you the answer you should have gotten. (This is also known as Flannegan's Finangling Factor).

**Horner's Five Thumb Postulate**

Experience varies directly with equipment ruined.

**Cahn's Axiom**

When all else fails, read the instructions.

**The Spare Parts Principle**

The accessibility, during the recovery of small parts which fall from the workbench, varies directly with the size of the part, and inversely with its importance to the completion of the work underway.

**Gumperson's Law**

The probability of a given event occurring is inversely proportional to its desirability.

**The Ordering Principle**

Those supplies necessary for yesterday's experiment must be ordered no later than tomorrow noon.

**The Transcription Square Law**

The number of errors made is equal to the sum of the "squares" employed.

**Chisholm's Law Of Human Interaction**

Anytime that things appear to be going better you have overlooked something.

**Riddle's Constant**

There are coexisting elements in frustration phenomena which separate expected results from achieved results.

**Theory of International Society of Philosophic Engineering**

In any calculation, any error which can creep in, will.

**Rule Of Accuracy**

When working toward the solution of a problem, it always helps if you know the answer.

**—Advanced Corollary**

Provided, of course, that you know there is a problem.



## REPORT ON ONTARIO CONVENTION

A milestone was reached in the history of Amateur Radio in Canada at the recently concluded annual convention of the Radio Society of Ontario. The historic nature of the event, tied in as it was with the Kingston Tercentenary, resulted in the presence of the president of A.R.R.L., Harry Dannals, W2TUK, together with several of his officials. The National Federation was represented in similar strength.

The occasion afforded the opportunity for many personal discussions between the League and Federation officials. Relations were very cordial and culminated in a meeting between the Federation Directors and the new League President, at which the Canadian Division was represented by its Director, Vice-Director and Canadian Counsel.

The convention program included a National Forum on the Saturday morning. The Presidents of ARRL and CARF, the Ontario Director CARF and Cdn. Dir. ARRL, and Mr. Lorne Greenwood of the Department of Communications discussed many topics of interest and answered queries from the floor under the capable chair of Bill Loucks, VE3 AR, President of R.S.O. The proceedings clearly brought out that the senior officials of both Amateur organizations were working toward the same goals. Mutual respect for the views expressed was evident, and a spirit of co-operation was being achieved.

After careful consideration, the basis for further communications was successfully prepared in a formal presentation by the President of CARF to the President of ARRL and the Cdn. Dir. ARRL of Honorary Associate Membership in the Federation. The accompanying citations made reference to this year being the 50th anniversary of the League's assumption of temporary trusteeship of Canadian Amateur affairs.

The Sunday meeting of CARF and ARRL was conducted in an atmosphere of friendliness in which the broad aims of the Federation were put forward. The relative positions of the League and its Canadian Division vis-a-vis the Federation were discussed. The attention of the President ARRL was drawn to the many differences between the Amateur services in USA and Canada, and the present and future plans of the Federation were brought forward.

The CARF Directors were impressed with the friendly and direct manner of the League officials. It was clearly evident that the time had come for a definite change in outlook and that the League and the Federation must work together on behalf of the Amateurs of Canada.

Direct contact was established between Tom Atkins, VE3 CDC, CARF Ontario Director, and Noel Eaton, VE3 CJ, Cdn. Dir. ARRL; and between Doug Burrill, VE3CDC CARF/DOC Liaison and H. H. (Shep) Shepherd, VE3 DV, Ont. SCM and A/Dir. ARRL. This liaison will greatly assist in the future development of Amateur communications and Auto-repeaters and will gradually enlarge to co-operatively cope with other matters of mutual interest and concern.

With good will and co-operation on both sides, the path to realization of the Aims and Objectives of the Federation will be shorter and, certainly, less rocky.



Bill Loucks, President R.S.O. addresses the assembly at the banquet. Left to right: Art Blinks, Mrs. Loucks, Bill Loucks, Noel Eaton (Cdn. Dir. ARRL), Harry Dannals (ARRL Pres.).



Dr. Harold Warder, executive assistant to Dr. T. T. Deutch, and Steve Cutway, VE3 GRS. Steve, our only White Caner in Kingston, was MC for the evening.



Noel Eaton, VE3 CJ and H. Dannals, W2TUK, receive their certificates as Honorary Associate Members of CARF from A. Blick.



Len Sumner receives the Cliff Marsh Memorial Trophy as RSO's Amateur of the year.

#### THE CANADIAN AMATEUR

*The official journal of the Canadian Amateur Radio Federation offers you news and information on the Amateur scene to aid in the fullest enjoyment of your hobby.*

*It relays events, proposals and decisions from major organizations across the country.*

*Each issue features an updated listing of banned countries, traffic and licensing agreements.....items that concern you as an amateur radio operator.*

*The Canadian Amateur is offered to you at a cost of \$4.00 for a yearly membership. Clip out the coupon below and mail it today with a cheque or money order to :*

*Ken Rolison VE3 CRL  
Secretary Canadian Amateur  
Radio Federation  
P. O. Box 356  
Kingston, Ontario*

*I would like to receive The Canadian Amateur for a period of ..... year(s)*

*Name.....*

*Address.....*

*Postal Code.....*



Noel Eaton and H. Dannals with their certificates.



## CANADIAN REPEATER ADVISORY GROUP

In view of the proliferation of Amateur automatic repeaters and the emergence of regional and provincial councils, the following plan for the formation of a national advisory group is proposed jointly by the Canadian Amateur Radio Federation Inc. and the Canadian Division ARRL.

J. Lyle Ward, VE3 CEZ, has been asked to act as Secretary of the Group in view of his involvement in repeater activities and his location in the National Capital where Lyle is a contracting officer with the Electrical and Electronics Branch of the Department of Supply and Services.

### Objective

To co-ordinate the exchange of information affecting repeater operation.

### Functions

1. To exchange and disseminate information to and from provincial and/or regional councils and/or repeater licencees.
2. To inaugurate and maintain a repeater directory

### Composition

A relatively loose organization is contemplated inasmuch as its function is mainly information-gathering and distribution. It is visualized that there should be one representative appointed to the group (as correspondent) by each provincial society.

There will be an Executive Committee to handle the day-to-day business of the Group. The Executive will consist of the Secretary, who shall be the Chairman of the Committee; an Amateur appointed by the Canadian Amateur Radio Federation to act as its liaison official with the Group; and an Amateur belonging to the Canadian Division ARRL, who has been appointed to a membership on the ARRL VHF Repeater Advisory Committee and who will hold the position of the ARRL liaison official with the Group.

The following have been appointed to the committee:

Secretary—Lyle Ward, VE3 CEZ, 1288 Iris St., Ottawa K2C 1B3.

ARRL Liaison—Howard Cowling, VE3 WT, 64 Dunkeld Ave., St. Catharines, Ont.

CARF Liaison—Tony Vandenbelt, VE3 FXG, 699 Trojan St., Ottawa K1K 2P1.

### Duties

1. Correspondents shall keep the Secretary informed of developments in their territories such as proposed new repeaters, frequency allocations, changes of frequency, location and licencees; technical changes such as access, identification and coverage; notices of meetings of the various repeater groups and any dealings with DOC Regional Offices which could affect repeaters as a whole.
2. The Secretary shall collate and disseminate to the members all such information as may be relevant, disseminate proposals made by members of the Executive committee; and keep records of the Group's activities.

### Voting

Although the organization is a fairly informal one and largely concerned with collecting and distributing information, there may be occasions when a vote or referendum is necessary. Decisions by members affecting and shaping the Group's policies and activities concerning advice or assistance to repeater councils, licencees and users, will be by a simple written majority vote, duly recorded by the Secretary. A telephone vote may be taken by the Secretary in an extremely urgent case. In the case of a tie vote, the Secretary will cast the deciding vote.

### BANNED COUNTRIES LIST

Cyprus\*, Gabon, Iraq, Pakistan, Turkey, Libya, Khmer Republic\*\* Viet-Nam\*\*, Yemen.

\*—Amateur operations suspended except for operation on special occasions when call sign 5B4—will be used and communication with other countries is permitted.

\*\*—Station XV5AC in Viet-Nam and XU1AA in Khmer Republic have been granted permission to communicate with stations in other countries

### THIRD PARTY TRAFFIC AGREEMENTS

Bolivia, Chile, Costa Rica, Dominican Republic, Honduras, El Salvador, Israel, Mexico, Peru, Venezuela, U.S.A. (Territories and Possessions) Trinidad and Tobago.

### RECIPROCAL LICENCING AGREEMENTS

Belgium, Brazil, Dominica, Dominican Republic, Ecuador, France, Federal Republic of Germany, Guatemala, Israel, Peru, Luxembourg, Mexico, Netherlands, Norway, Nicaragua, Portugal, Republic of Panama, Senegal, Sweden, Switzerland, U.S.A., Uruguay, Venezuela, and Denmark.

NOTE: All Commonwealth countries are eligible for reciprocal Amateur operating privileges unless evidence that a country does not grant reciprocal operating privileges to Canadian Amateurs.

### MONITORING STATIONS

If you hear serious infractions of the regulations and wish to assist in tracking them down immediately, then phone your nearest DOC monitoring station, furnishing as much information as possible as to type of infraction, mode of transmission, frequency and time of observation and if possible, tape and record it.

Here are the numbers:

	A.C.	TEL. NO.
<b>British Columbia</b>		
Ladner (near Vancouver)	(604)	946-2715
<b>Alberta</b>		
Wataskiwin (near Edmonton)	(403)	352-5625
<b>Saskatchewan</b>		
Melville (near Yorkton)	(306)	728-5997
<b>Ontario</b>		
Acton (near Guelph)	(519)	853-2840
Thunder Bay	(807)	935-2561
Almonte (near Ottawa)	(613)	257-3552
<b>Quebec</b>		
Senneterre (near Val D'Or)	(819)	737-4431
St. Lambert-De-Levis (near Quebec)	(418)	889-2552
<b>P.E.I.</b>		
Montague (near Charlottetown)	(902)	838-2451
<b>N.W.T.</b>		
Fort Smith	(operator assist call)	872-3541