

At CHYM Kitchener, chief engineer Paul Firminger reviews complex frequency switch recently approved by CRTC.

Shoehorning

Frequency

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Circle #20 on Reader Service Card

A recent decision by the Canadian Radio-Television and Telecommunications Commission has brought to a successful conclusion the five-year search by CHYM Kitchener, Ont., for a new frequency.

The CRTC approved CHYM's move from 1490 to 570 kHz, with 5 kw day/10 kw night, DA-1. As part of the deal, CFOS Owen Sound will increase power from 1 to 2.5 kw on 560 kHz, and also gain a rebroadcaster at Port Elgin, utilizing CHYM's former frequency of 1490 with 1 kw day/250 watts night, omnidirectional.

The plan is largely the work of CHYM's chief engineer, Paul Firminger, who joined the station three years ago. A graduate of Bell & Howell's DeVry Institute in Toronto, Firminger was with CHIC Brampton for 10 years and CFGM Richmond Hill for three years before joining CHYM. He had also acted as a consultant for various radio stations, including CFOS, hence was familiar with that station's coverage problems. These will be largely overcome by the power increase, directed to the Georgian Bay area, with the rebroadcaster covering the Lake Huron area to the southwest.

Many proposals had been examined by CHYM over the years and rejected either because of excessive cost or incompatibility with the coverage patterns of other stations. Then, in October, 1974, general manager John Larke and Firminger met with CFOS president and manager W. N. "Bill" Hawkins. Various plans were discussed but no new frequency appeared available to CFOS, should CHYM use 560 kHz.

Firminger then proposed 570 kHz for CHYM, with CFOS increasing power on 560 to offset any overlap. Consulting engineer Gordon Elder endorsed the idea and work began in earnest-and in secrecyon a detailed plan.

There were numerous complications: "very tight" co-channel protection on 570 must be provided WKBN Youngstown, Ohio and WSYR Syracuse, N.Y.; there's a slight overlap with CBEF Windsor (540) and CKEY Toronto (590); proposals for a power increase by CKWW Windsor (580) and for a new AM station in Burlington on 560 could have killed the plan. And, when it eventually came to a hearing before the CRTC, there was a conflicting application from CHNO Sudbury, seeking to move from 550 to 570 kHz. CKOT Tillsonburg also intervened to claim 1490 at night, in addition to its present daytime-only frequency of 1510.

But gradually, the obstacles were overcome. CKEY, like CHYM, is part of the Maclean-Hunter family—but, even so, there had to be negotiations to come to an agreement. The decision of the CRTC ruled that CHYM's proposal offered more efficient management of the spectrum than that of CHNO; and CKOT had already been granted a power increase for its FM operation to provide full-time service to its market.

Land acquisition presented other hurdles. CHYM acquired a 100-acre property two years ago, but in the process ran up against the popular mythology about broadcasting: the price doubled overnight when the farmer found out who the purchaser was. The location is ideal, but other aspects are not: five Hydro towers have to be re-located; three oil pipelines go through the property; and there are three "kettle depressions"-the largest about 1500 × 800 feet and up to 40 feet deep-over which the ground system must be suspended. Cost of fill is prohibitive and having the area declared a landfill site appears to be a complex and lengthy process. Firminger, who hopes to install the entire ground system himself, proposes the use of copper-clad steel-but is open to suggestions. Flatness criteria are ±3 feet within 120 feet of the

base of any tower; ±6 feet elsewhere.

The CHYM array will require five towers. Each will have a counterpoise at its base, 70 feet in radius and 4 to 5 feet above the ground, to help stabilize the finely-tuned array. Filters will also be required to prevent interference between CHYM and CFOS.

CFOS will continue to use its existing transmitter site, but with the addition of two towers. Additional land had to be leased for the ground system. At Port Elgin, six acres have been leased for a single tower antenna. The latest state-of-theart equipment will be provided without cost to CFOS.

CHYM's John Larke, who is also vicepresident of Greatlakes Broadcasting Systems Ltd., and who was responsible for the project from its inception, says: "It took a lot of patience and negotiating". CFOS used its own consultants (Canadian General Electric) and legal advisors to check out all aspects of the proposal. Secrecy was of the utmost importance, and as few persons as possible were made aware of the details—a previous proposal being used as a "cover".

Firminger gives full credit to the Maclean-Hunter organization for its enlightened approach to spectrum management and allowing CHYM a free hand in its painstaking search for a new frequency. And, he offers a word to the wise: "Problems at many stations could be resolved if management would get off its high horse and talk to the engineering people".



Signing agreement between the two stations are John Larke, vice-president, Greatlakes Broadcasting, and general manager of CHYM, Bill Hawkins, president and manager of CFOS Owen Sound, and Paul Firminger, chief engineer of CHYM Kitchener.

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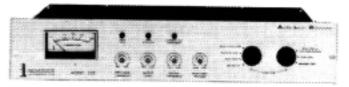
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Computer Assisted Programming System

Each year, the Canadian Association of Broadcasters presents the Col. Keith Rogers Award to a station which has made an outstanding contribution to the advance of broadcast engineering. The award, sponsored by Canadian General Electric, is in memory of one of Canada's pioneer broadcasters.

This year's winner is radio station CKXL Calgary, Alberta, owned by Moffat Communications Limited, for its Computer Assisted Programming System. Another submission, the development of a programmable oscillator by Corporation Telecomex of Montreal, won honorable mention—it has already been reported in BROADCAST EQUIPMENT TODAY. (March!April, 1976, page 35). The two other submissions for the 1976 award will appear in future issues.

CKXL broadcasts with 10,000 watts of power at 1140 kilohertz from a transmitter site located just south of Calgary, with studios at 804-16 Ave. S.W. CKXL first went on the air as CJCJ in 1927. The call letters were changed to CKXL in April 1950. The station now boasts a staff of 40 very active people working together to provide contemporary radio programming to the people of Calgary and surrounding district.

Here is CKXL's award-winning submission, prepared by Gordon Kyle and Greg Jardine.

It could be called a mechanical operator, or an electronic producer. Sometimes CKXL's jocks refer to it affectionately as "Igor". Gordon Kyle, disk jockey turned electronics engineer, who developed it, calls it a Computer Assisted Programming System.

Greg Haraldson, program director, explains: "I may be the only program director in the world who has adequate time to program his radio station, because I'm not required to be a music accountant as well. This has come about since the installation of our Computer Assisted Programming System. Prior to that, we were on a manual system, encountering problems that took a lot of time to overcome. These problems had to be beat before our music system could be executed properly.

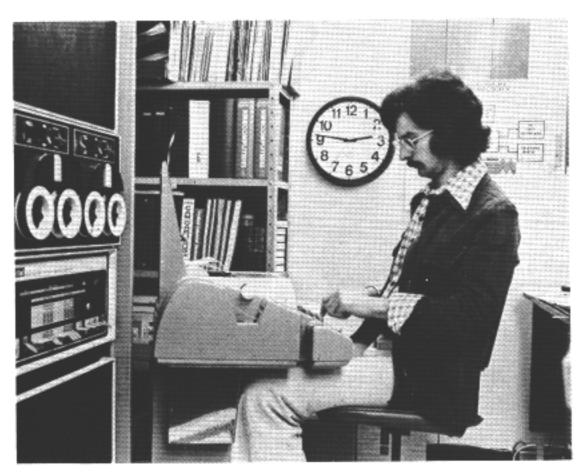
"Here at CKXL, 19 "A" records are to each be played every three hours, and about 25 "B" records are to each be played an equal number of times in a 24hour day. It's important that all records receive their precise intended exposure, and on the top it doesn't look too tough to accomplish. Unfortunately a number of factors do create problems. Day part restriction is one that takes a lot of time to control; certain records are not to be played in specific hours due to demographic appeal. The music director has to listen to his radio station to insure that those records aren't getting on when they're not supposed to.

"Another factor that requires a lot of time to control is day-to-day rotation; a record is not to be played the same hour two successive days. To police that situation properly would require listening 24 hours a day, every day. In addition we are required to play 30% Canadian recordings each hour to give us a minimum of 30% over the 18-hour period 6:00 am to 12:00 midnite. Of course we can't omit jocks playing favorites, a problem in every radio station. In short, getting the right record on the air at the proper time requires a lot of listening by the music director, and a lot of aware thinking by the jock. Unfortunately, even jocks with the best of intentions are prone to human error, resulting in improper music rotation."

CKXL announcer Jack Barry outlines the problems encountered by a jock or operator using a manual system to select his next record:

"Basically it works like this. Play the right song every time, and I'll keep the PD off my back. Let's go through the neccessary steps to reach that choice:

- I've got to locate my playlist among all the paper on the board.
- (2) What's on next, an "A" or a "B"?
- (3) What time today was it last played?
 Can I touch it now?
- (4) Was it played in this hour yesterday?
- (5) Is it restricted by day part in this hour?
- (6) Is the Canadian content up to 30%? Do I need a Canadian record to meet our obligation?
- (7) Is there another record that should be played before the one I have in mind?
- (8) Do I like that song? Might prefer one of my favorites.
- (9) Made my choice. Now to locate the record or cart, and set up the machinery.



Gordon Kyle of Moffat Communications Limited, who developed the Computer Assisted Programming System, feeds changes and additions into terminal.



CKXL's drive announcer, Johnny Walker, is seen using the computer system to select music via CRT data terminal.

continued from page 12

This sequence is repeated before each song is selected, and if I'm fast I might get a couple of seconds to prepare my rap for the next stop set.

"Our computer assisted system eliminates all the above steps, leaving me only one—to pick a song from the list it gives me. I know that all of the songs shown as available are correct for that time of day, and as a result I cannot play the wrong song at any time on my show. The computer looks after the negative decisions, leaving me the final choice which I can make in seconds, allowing me to use the time left over between songs to be creative on the air. No records to cue, or carts to handle."

CKXL drive jock, Johnny Walker adds:

"The computer assisted system gives me an opportunity to sit back and relax, perhaps do more thinking than the old way of using records or carts with a paper chart and flying by the seat of my pants. It lets me make the proper selection, giving my audience a much better play of our music."

The program required one man year to develop, and has been completely de-

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At CAB in Ottawa, Lou Spence of Canadian General Electric congratulates Gordon Kyle and Ron Mitchell of Moffat Communications Ltd., 1976 winners of the Col. Keith Rogers Award.

bugged through six months of 24-hour-aday use on the air at CKXL. Two CRT data terminals are used by staff to communicate with the computer. One is located in the control room, used by the jocks to select and play the music on their shows. The second terminal is used by the music director to enter and change the music information required by the computer. The terminals consist of a small television screen that displays the computer's replies, and a standard typewriter keyboard for entering control commands. The 12-hour clock is read by the computer, allowing it to keep track of the time of day and the day of the month. The Instacart is a 48-cart random select playback machine that holds the music carts played by the system. When commanded by the jock, the computer will start the selected cart, putting the proper song on the air. At the end of each 24-hour day, the computer prints a music list on the teletype. The list shows what songs were played in each hour, and in which hours each song was played. This paper list is filed for future use.

Greg Haraldson explains the value of the daily computer printout:

"The list is total proof of performance that our misic is being rotated properly, and as a program director always trying to remain objective, I have to have that proof. I can use the list to check the exposure given any song—but I really don't have to, because I know the system looks after everything.

"The most important thing to me is the time this system saves me—time away from being program director. In the past it literally took two to three hours each time I wanted to check the jock playlist. With this list I can check our rotation in a matter of minutes."

Keith James, Vice-President in charge of programming for Moffat Communications Limited, looks at the systems's history and future in broadcasting:

"During my 15 years as a disk jockey, I had all the hassles and made all the mis-

takes associated with working the station playlist. With this in mind during my work with Moffat, and with the help of some extremely imaginative engineers at our stations, I began eliminating the reasons behind the problems. Our first breakthrough was a one-song-at-a-time system developed by Clint Nichol and Tom Davies at CHED, Edmonton. The jock using this system did not have to handle his music carts. He made his choice from the paper playlist, dialed in the song number, and remote started the cart. We found this to be a tremendous aid to our on-air people.

"Then, during my travels and dealings with airlines using computers to select my seat, I began thinking about computers applied to radio playlists and formats. We had a fellow in our engineering department at CKXL, Gordon Kyle, who had been a disk jockey prior to becoming an electronics engineer trained in computers. We talked about it one day, and out of that conversation evolved the initial ideas for our system which is now a reality.

"Keep in mind we are not automated. The sytem is meant to assist the jock, and can be relaxed or tightened up as much as neccessary. We have a compromise situation at CKXL which suits our jocks and the type of programming we are doing. One of the main factors is psychological. I feel that our jocks in Calgary are happier on the air than any I've worked with in the past.

"We are working to include control of our Gold music, spot play in accordance with our commercial log which will be displayed on a screen before the jock, live tags, messages, etc. If it's on paper now, we'll put it on a screen before the jock's eyes, available at the push of a button.

"Keep in mind that all the mentioned features apply to operators as well. They encounter the same execution problems as an announce-operate jock."

Moffat's computer assisted programming system is now also on the air at stations CKLG Vancouver, CHED Edmonton, and CKY Winnipeg.

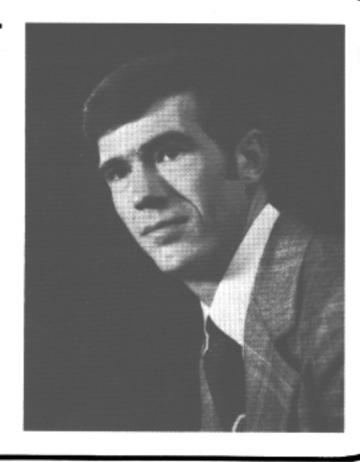
RADIO LONDON CJBK-129 APPOINTMENT JEFFREY GUY VICE-PRESIDENT

Jeffrey Guy has been appointed vice-president, engineering, of CJBK Radio in London, Ontario. This appointment is effective immediately.

Mr. Guy was formerly CJBK's chief engineer, a position he has held since 1967.

His previous broadcast/engineering experience includes another London radio station and CFCO Radio, Chatham, Ontario.

In announcing the appointment, CJBK station president, Rick Richardson, commented: "Jeff Guy is one of the broadcast industry's most seasoned engineering experts. He has continually contributed to the overall development of the station as well as the continual technical improvements of CJBK Radio. His professional guidance and leadership will continue to help CJBK grow in the future."



happenings



- Buffeted by 100 m.p.h. winds, the 465foot tower of CBK at Watrous, Sask., came crashing down on the night of June 3rd., putting the station off the air for four days. Stan Ewart of CBC Regina told BET that the tower apparently was lifted repeatedly by the winds, smashing the base insulator, then twisted and fell in three sections. None of the tower's three heavy cable guy wires broke. A temporary antenna, constructed by LeBlanc & Royle, allowed the station to return to the air on Tuesday morning, June 8th, with reduced power. Full 50 kw power was resumed later the same day. While CBK was off the air, CBC AM network service was provided via the French FM outlet in Regina and CJUS-FM in Saskatoon.
- "Planning for the Video Disc" is the subject of a July 28-30 conference at San Diego State University, sponsored by the National Association of Educational Broadcasters. Fee is \$175, and further info may be obtained from NAEB at 1346 Connecticut Avenue NW, Washington, D.C. 20036, (202) 785-1100.
- An ex-Marconi man, Michael Hargrave-Pawson, is the new chief engineer

- at CHIC Brampton, Ont. He replaces Walter Tillner who resigned at the end of May.
- Deadline is July 23 for those who wish to submit papers for the Audio Engineering Society fall convention in New York. Title and abstract (60 words or less) should be sent to Geoffrey M. Langdon, AKG Division, Philips Audio Video Systems, 91 McKee Drive, Mahwah, N.J., 07430, (201) 529-5900.
- Cliff Wingrove retired from CFPL-TV London, Ont., at the end of June, after 22 years. A well-known and popular figure in Canadian broadcasting, Cliff was honored by many of his friends at a dinner in Toronto on June 3rd. CFPL has appointed Bob Elsden as director of marketing, industry and community relations, while Jim Plant becomes director of operations.
- An on-air date in August is planned for Buffalo, New York's all news radio station. It's WNED—an AM arm for PBS affiliate WNED-TV (Channel 17)—and the first public radio station in the U.S. to go all news. WNED takes over the 970 kHz spot with 5 kw from WEBR, purchased from the Buffalo Courier-Express, the city's morning newspaper.
- Two broadcast engineers have moved into the equipment side recently. Neil Evans, with CFRB Toronto the past 7 years, joined Studer Revox as technical supervisor and broadcast sales representative. Also at Studer, where staff has tripled in the past two years, Don Maynard is Revox product manager. From Rogers Broadcasting, Toronto, John Mann joins M.S.C. Electronics, which is expanding its testing and service capability.
- Teledata Systems has merged with Time and Frequency Technology, Inc. of Santa Clara, California. Teledata specializes in remote control and telemetry equipment, TFT in monitoring instruments.
- Robert C. Hall has been appointed chief engineer at CKND-TV Winnipeg. A native of Manitoba, he attended the University of Manitoba and the Radio College of Canada, and worked for CKY-TV Winnipeg and CKCK-TV Regina, joining CKND-TV last summer.
- The 12th International Congress on High Speed Photography takes place at the Innon-the-Park in Toronto, August 1-7.

- At Jerrold, Larry Richards has been named supervisor of field engineering services. Formerly with Ottawa Cablevision and Lake Superior Cablevision, he joined Jerrold in 1973 as supervisor of systems design.
- Caldwell announces the sale of CCA 10 kw transmitters to CJET Smiths Falls, Ont., and CFVR Abbotsford, B.C., which also purchased a 1 kw standby. An Alice STM-10-4 audio production board goes to CJCA Edmonton. Stateside, Juan C. Chiabrando, one of CCA's founders in 1963, has rejoined the company. A native of Argentina, he designed and installed transmitters there before going to the U.S. in 1955 where he joined RCA, and later, ITA Electronics Corp. He's now v.p., operations, responsible for engineering, manufacturing, testing and quality control at CCA.
- Promotion man Gord Hume has moved from CHYM Kitchener to the Rogers organization in Toronto.
- Robert N. Hurst, a 25-year veteran with RCA in the States, will play a major role in the company's expanded instructional program. In addition to its established training seminars for customers, RCA will now sell audio-visual kits to train others personnel back at the station. Subjects will include the TK-76, digital technology, microprocessor applications and image processing. Speaking to a joint IEEE/NAB meeting in Cleveland, Hurst predicted that television signal digitizing will bring about major changes in the nature of broadcast equipment for TV, making possible functions and operational methods now considered impossible.
- Continental Electronics is constructing two "super-power" AM installations for Saudi Arabia. One will have two transmitters, each with 2-million watts carrier power output; the other with one 2-million and one 1-million watt power. Continental's contract represents \$28 million, or about 20% of the total \$150 million project, which includes power generating stations at each site.
- Recent titles from Tab Books include "Modern Guide to Digital Logic Processors, Memories & Interfaces", "Microelectronics", "impedance"—and a solution for the hard-pressed one-man operation: "Build Your Own Working Robot"!

directions

A review of current policies and decisions of the Canadian Radio-television and Telecommunications Commission

PUBLIC HEARINGS

The CRTC has scheduled the following public hearings for the coming year:

Sept. 8—Ottawa (Skyline Hotel)

Oct. 5—Halifax (Lord Nelson)

Nov. 16—Ottawa (Gov't. Conference Centre)

Dec. 7—Toronto (Sheraton Four Seasons)

Jan. 31, 1977—Regina (Regina Inn)

Mar. 1—Ottawa (Gov't Conference Centre)

Mar. 29—Montreal

May 3—Vancouver

June 7—Ottawa (Gov't Conference Centre)

WINDSOR HEARING

Applications considered at the May 19 hearing in Windsor, Ont., included:

- David Ruskin, representing a company to be incorporated (Canadian News Radio), for an FM station at London, Ont.; 100,000 watts on 93.5 MHz.
- Radio Fanshawe Inc., for FM at London;
 3,000 watts on 99.3. Fanshawe is the city's community college.
- CKNX Broadcasting Ltd., for FM at Wingham, Ont.; 22,000 watts on 101.7.
- CBC, for the following FM outlets:

City	Watts	MHz
London (English)	100,000	93.5
London (French)	22,500	99.3
Sarnia (English)	50,000	106.3
Sarnia (French)	3,000	103.9
Chatham (English)	35,500	95.1
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- Federation of Students, University of Waterloo (Ont.), for an AM carrier current operation, 20 watts on 820 kHz.
- G. Farquharson, for low-power TV rebroadcasters (English and French) at Strathcona Sound, N.W.T.
- The application of Canadian Cablesystems' London Cable TV for a rate increase was re-heard as a result of a Federal Court of Appeal decision, directing the CRTC to reconsider the matter. The increase had been appealed by the Consumers' Association of Canada, which argued that cable systems should be required to disclose financial data more fully to justify such increases. (The CRTC ruled against the CAC position and, on October 28, 1975, published its policy in the document Financial Disclosure Relating to

Cable Television Undertakings, a summary of which appears in BET, January/February, 1976, page 33.) Additional financial information has been provided by London Cable, which, besides a one dollar increase in its basic monthly fee, seeks approval for a second antenna, addition of CBC French and OECA stations to the basic service, and addition of two U.S. stations and two local origination channels to the converter service.

 Another Cablesystems company, Pine Ridge Cable TV, Oshawa, Ont., seeks to add five U.S. and three Canadian FM stations to its FM service.

Cable TV for Windsor?

At the Windsor, Ont., hearing, the CRTC heard discussion on the future of cable television for that city. Applications have been received and the commission invited comment on the state of broadcasting in the region and the possible impact of cable. Among the problems which make Windsor unique:

- The area receives 13 television signals (2 Canadian) and 34 radio signals (10 Canadian).
- There is no CTV outlet.
- The CBC cannot carry many of its programs on CBET Windsor because program contracts protect the Detroit market; this includes many hockey games and even some Canadian productions considered suitable for distribution in the U.S.
- Global Television is also required to delete some programming on its Cottam transmitter, near Windsor, although reception in Detroit is only marginal.

VICTORIA CABLE

A special hearing was held on May 26 in Victoria, B.C., to consider a rate increase and changes in channel distribution for Victoria Cablevision Ltd. The matter had been in abeyance since February 2, 1976, when a federal court judge ordered the CRTC to hear a competing application for the licence from Capital Cable Co-operative. On April 12, the Federal Court of Appeal set aside this order. However, a further appeal by Capital Cable Co-op may take the case to the Supreme Court of Canada for a final decision. In the meantime, the CRTC, which had been renewing Victoria Cablevision's licence on a month-to-

month basis, has now renewed it to October 31, 1976. The proposed rate increase is from \$4.50 to \$6.00 monthly and distribution changes include the addition of CKVU-TV (channel 7) and CBC French (channel 3).

OTTAWA HEARING

A hearing in Ottawa, which commenced June 8th, included the following applications:

AM Radio

- CKSO Sudbury, for a power increase from 10 kw day, 5 kw night, to 50 kw day and night on 790 kHz with a change of antenna site.
- Radio Cote-Nord Inc. (CHLC Hauterive) for a rebroadcaster at Forestville, Que., 1,000 watts on 620 kHz.
- CBC, for a rebroadcaster at Bella Bella,
 B.C., 40 watts on 630.
- CFRB Limited, for a network to carry the 1976 Argonaut football games, consisting of CFRB Toronto, CFCO Chatham and CHOK Sarnia.
- Eastern Broadcasting Co. Ltd. (85%) and Gordon V. Marratto (15%) seek to purchase control of five Ontario stations—CKAR Huntsville/Parry Sound (87.9%), CKMP Midland (51%), CFOR Orillia (100)%, CJCS Stratford (100%) and CKOX Woodstock (100%)—from Countryside Holdings Ltd. and T. G. Ferris. Eastern owns CKCW Moncton, CFAN Newcastle and CJCW Sussex, N.B., CFCY Charlottetown, P.E.I., and has a major interest in the Northern Broadcasting group in Ontario.
- Radio Acadie Ltée, licensee for CJVA Caraquet, N.B., seeks to transfer ownership to R. Landry (50%), A. Lebouthillier and A. Michaud, as well as a renewal. The station has not yet begun operations.
- Radio CFDA, Victoriaville, Que., for a power increase from 1 kw to 10 kw, with a change of antenna site.
- Radio Megantic, for a power increase for CKLD Thetford Mines, now 1,000 watts day, 250 night on 1230, to 10,000 watts on 1330 kHz; and for a new station at Disraeli, Que., which would use the present CKLD power and frequency.
- Co-operative Agro-Forestier, for a 50 watt daytime station on 1300 at Rang St-Gregoire, Que.

New FM Stations

Applicants for FM include:

• The CBC, for seven Ontario outlets;

City	Watts	MHz
Brockville (English)	100,000	100.3
Brockville (French)	3,000	102.1
Penetang (English)	15,300	107.5
Penetang (French)	15,300	96.5
Peterboro (French)	31,000	106.3
Cobourg (English)	100,000	103.1
Orillia (English)	8,640	105.9
The CBC also request	s SCMO on Cl	BL-FM
Toronto to transmit	programming	to the
proposed Orillia statio	on.	

- Radio CHUC Coburg, also proposes a station on 103.1, with 117,000 watts.
- Radio CKPT, Peterboro, for 50,000 watts on 105.1.
- Ralph T. Snelgrove and Andrew F. Markle, each requesting 100,000 watts on 93.1 for Barrie, Ont., on behalf of companies to be incorporated.
- Radio Rogers Ltd., for 100,000 watts on 98.7 at Gravenhurst, Ont.
- Claude Pepin, representing a company to be incorporated (Radio Lanaudiere Inc.), for 4,000 watts on 103.1 at Joliette, Quebec.
- Louis Martel, representing a company to be incorporated, for 28,800 watts on 93.9 at Trois-Rivieres, Que.
- Humber Valley Broadcasting, Cornerbrook, Nfld., for an English FM station at Fermont, Que., 8.3 watts on 97.9.
- Radio Nord Inc., for 51,000 watts on 96.5 at Rouyn-Noranda and 52,000 watts on 97.3 at Lithium Mines, Que.
- Claude Germain (Club Social La Grande) for 116 watts on 100.5 at Camp LG3, James Bay, Que.
- CBC, for English-language FM rebroadcasters in various communities in western Canada:

City	Watts	MHZ
Stanley Mission, Sask.	216	95.5
Pinehouse Lake, Sask.	85.5	94.1
Canmore, Alta.	70	97.9
Pincher Creek, Alta.	43.7	97.5
Exshaw, Alta.	138	100.7
Hope, B.C.	136	101.7
Alert Bay, B.C.	77	105.1
Woss, B.C.	125	92.9
Vanderhoof, B.C.	118	96.7
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 The Lytton & District TV Assoc., for 4.8 watts on 106.1 to rebroadcast CFFM-FM Kamloops, B.C. CINQ-FM Montreal, seeks a power increase to 36 watts on 99.3.

Television

- Cambrian Broadcasting (CKSO-TV Sudbury), for acquisition of CKNY-TV North Bay, and to establish a studio at Timmins, Ont.
- CBC, for low power rebroadcasters at Driftwood, Ont., Stanley Mission, Sask., Cardston, Alta., and in British Columbia at Wokas Lake, Gold River, Woss, Tahsis, Port McNeill, Nimpkish, Holberg, Port Alice, Coal Harbour, Port Hardy and Alert Bay; with a power increase at Campbell River, B.C.
- Skeena Broadcasters, for a rebroadcaster of CFTK-TV Terrace, B.C., at Gribbell Island.
- Canadian Forces Station Holberg, San Josef, B.C. for a rebroadcaster of CHEK-TV Victoria.
- A community association at Peters River, Nfld., for a rebroadcaster of CJON-TV St. John's.
- An employees' association, for both English and French rebroadcasters at Putuniq (Asbestos Hill), Nouveau-Quebec, receiving programming from the CBC via satellite.

Cable TV

- Fergus-Elora Cable T.V. Limited,
 Fergus, and Fred Lang T.V. Limited,
 Kirkland Lake, Ont., for authority to continue local advertising on the community
- Northshore Cable Services, Sudbury, for licences to serve Sturgeon Falls, Cache Bay, Espanola, Elliot Lake and Blind River, Ont.
- Timmins Cable Services, Sudbury, for a licence to serve Smooth Rock Falls, Kapuskasing and Hearst, Ont.
- Both companies propose microwave importation of OECA, Global, CBS and NBC signals from the Toronto area, and CFVO-TV Hull (TVA network).
- Community Video, North West Community Video and Express Cable Television Ltd. of North Vancouver, for transfer of ownership (100%) to Microwave Cablevision sion Ltd. The ownership of nine systems in B.C. and Alberta is involved. A previous transfer was denied by the CRTC.
- Cable Service Ltd., Moncton, N.B., for

- a change of antenna site.
- Cablevision Warwick Inc., for a licence to serve Kinsey Falls, Que.
- Cablevision du Nord de Quebec, Inc. for a licence to serve La Sarre, Que.
- National Cablevision Ltd., for a cable TV network to be known as Microbec Inc., with head-ends at four locations to relay signals via microwave to a dozen communities in the lower St. Lawrence and Lac St-Jean areas.

DECISIONS RADIO

- All three applications for an AM station at Vernon, B.C., have been denied. The CRTC said that Dennis J. Gerein failed to offer new programming for the area and that, with regard to Nick Frost, it preferred local control by persons whose primary interest is broadcasting. While the application of Gilway Enterprises was impressive, the Commission considers the market not ready to support a new commercial station. The application by Interior Broadcasters Ltd. (CJIB Vernon) for FM was also denied.
- At Kamloops, CHNL was denied a power increase to 50 kw. The CRTC ruled that it would adversely affect the marketing balance of Okanagan stations.
- CBC FM stations approved:

	Watts	MHz
Port Radium, N.W.T.	82	105.1
Golden, B.C.	130	101.7
Kamloops, B.C.	4,750	94.1
Kelowna, B.C.	4,700	95.7
Pentiction, B.C.	1,840	93.3
Vernon, B.C.	1,880	105.5
Calgary, Alta. (F)	10,000	103.9
Lethbridge, Alta. (F)	1,660	104.3
Lethbridge, Alta.	100,000	100.1
Regina, Sask.	100,000	96.9
Fond du Lac, Sask.	779	100.1
Stony Rapids/		
Black Lake, Sask.	1,360	93.3
Brandon, Man.	100,000	97.9
Baldy Mtn., Man.	95,000	105.3
Fairford, Man.	11,800	104.3
Fisher Branch, Man.	5,400	95.7
Jackhead, Man.	33,000	92.7
Trois-Rivieres, Que.	4,326	

• In a number of cities, (e.g. Brandon, Kingston, Sudbury) where CBC FM out-

lets are being licensed to carry AM or a mixture of AM FM network service, modified affiliation agreements will continue with private stations until FM receiver penetration is sufficient to discontinue such affiliation.

- FM stations at Peace River and Grande Prairie, both 100 kw, have been licensed to the Alberta Educational Communications Corporation.
- Burlington Broadcasting Inc. (CING-FM) is the successful applicant for FM in that community, with 50 kw on 107.9 MHz. The applications of McMaster Students Union and Upper Canada Broadcasting Inc. are denied. While the CRTC was impressed by the McMaster proposal, it was unwilling to assign a Class B Channel for a low power, specialized station.
- A similar objection was made to the FM proposal of Radio Communitaire de Jonquiere Inc. (423 watts on 93.7). While approving it in principle, the CRTC told the applicant to select another frequency.
- CFML Hawkesbury, Ont., received approval for a 250 w rebroadcaster on 1110 kHz.
- CJME Regina and CHCM Marystown have been granted power increases to 10 kw, day and night.
- An FM station (28.9 w on 99.9 MHz) has been licensed for Povungnituk, Que. It will broadcast largely in the Inuit language.
- CHYM Kitchener will move to 570 kHz, while CFOS Owen Sound, Ont. increases power and gains a rebroadcaster at Port Elgin on the present CHYM frequency, 1490. (See article in this issue of BET.) A competing application by CHNO Sudbury for 570 was denied.
- Power increases have been approved for CJSS-FM Corwall (to 9,500 watts) and CBKF-FM Regina (to 13,700 watts).
- A change of studio location has been approved for CFLD Burns Lake, B.C.; and the CBC will add local studios at Le Ronge, Sask., Eskimo Point and Igloolik, N.W.T.
- Overnight radio service will be provided to northwestern Ontario by a feed to CJRL Kenora, CKDR Dryden and DFOB Ft.
 Frances from CJOB-FM Winnipeg, Man.
- A number of AM stations have been renewed with admonitions to improve local news service: they include CKBS St. Hya-

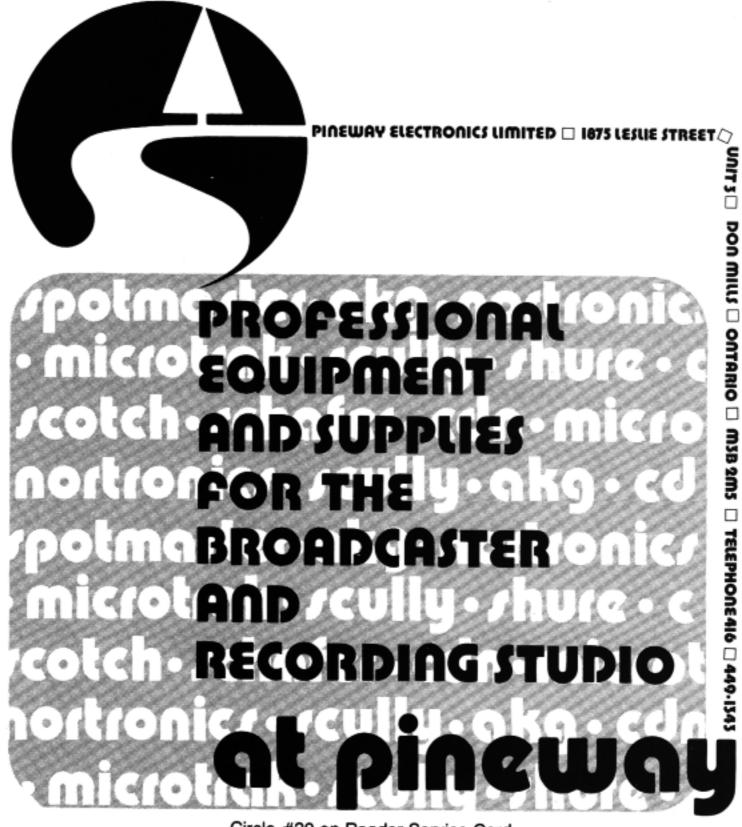
cinthe, Que., CJNW Musgravetown and CKVO Clarenville, Nfld.,

 Reseau Telemedia may expand its programming categories but stations must give precedence to CBC affiliation, and programs consisting principally of pre-recorded music are not permitted.

Television

• A French CBC station has been approved for Vancouver, 104,400 Watts ERP on channel 26. Its carriage on the basic service of all cable TV systems in the area is mandatory, but the CRTC is permitting it to be carried phase-locked on ch. 2 and 8 for an interim period. The Commission accepted the CBC's explanation of its purchase and installation of equipment for ch. 26 prior to licensing; i.e., economy in time and cost, and ability to use it elsewhere if denied or deferred.

- French-language CBC-TV outlets have also been approved for Barrie (7 kw on ch. 55) and Penetang, Ont. (11.3 kw on ch. 34); Calgary (2,590 watts on ch. 16) and Lethbridge, Alta. (620 watts on ch. 23).
- CKRS-TV Jonquiere will increase power from 20 to 208 kw (video), with a change of antenna site. Rebroadcasters at Pt. Alfred, Chicoutimi and Alma, Que., will cease operation.
- CKCK-TV will provide CTV service to Swift Current, Sask., with a rebroadcaster on ch. 12, 13 kw. The Regina station will not solicit advertising in Swift Current, and



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the CRTC has called for discussion on the inadequacy of service in the area.

- September 1st is on-air date for a CBC outlet at Lethbridge, Alta., 123 kw (video) on ch. 10. CJOC-TV will disaffiliate on the same date, deriving some programming from CFAC-TV Calgary. The CBC is to make "significant changes" in its commercial rates and policies so as not to compete unfairly with private stations in the area.
- Similar policies are to come into effect in Newfoundland, where CJON-TV objected to the CBC's commerical practices. The CRTC, in renewing CJON-TV, noted it operates 22 transmitters and also provides CTV service to five community-owned transmitters.
- A power increase has been granted to CBRT rebroadcaster CBRT-5 Rosemary, Alta., from 25,300 to 125,450 watts ERP.
 Also approved is a low power CBC rebroadcaster at Fort Chipewyan, Alta.
- A change of antenna site was approved for CHEM-TV Trois-Rivieres, Que.
- In renewing the licence of CFVO-TV Hull for a two-year period, the CRTC imposed a number of conditions on the financially-troubled station, requiring it to submit a progress report twice yearly.
- Low power rebroadcasters have been licensed at St. Pamphile, Que. Que. (CBC, ex CKRT Riviere-du-Loup); at seven locations in the West Kootenays area of B.C. (CHAN-TV, Vancouver); and at Mildred Lake, Alta. (Muskeg Club).

Ownership Changes

- The purchase of CKDA and CFMS-FM Victoria, B.C. by CHQT Broadcasting Ltd. of Edmonton has been denied. The CRTC criticized the proposal for its lack of local ownership or participation. Meanwhile, it renewed CFMS for only 18 months, calling for improved programming and an explanation of how planned automation equipment will contribute.
- Approval has been given to the purchase of CKRD, CKRD-FM and CHCA-TV Red Deer, Alta., by Monarch Broadcasting (CHAT), Medicine Hat.
- Also approved is the purchase of CKKC Nelson and CFKC Creston, B.C., by J. David Schmidt. The new owners plan to live in Nelson and to add local studios at Creston.

- The re-organization of the Maclean-Hunter companies (16 cable systems and the CFCN/Shoreacres/Great Lakes broadcasting group) has been approved by the CRTC. Reservations were expressed regarding the nearly 10% equity of the Toronto-Dominion Bank in the new company, Maclean-Hunter Holdings Ltd.,
- The second bid by the Waters family to purchase CKLC Kingston, Ont., has been approved. The new licensee company is owned equally by James and Ronald Waters and Sheryl Bourne. Terry French is to remain as president and managing director for a term of at least five years.
- The sale of CKBM Montmagny, Que., to Louis Paquin, has also been approved.

Cable TV

- A number of recent decisions have underlined CRTC policies: for example, the allocation of a channel for community programming is mandatory for all cable TV licensees; and carriage of FM signals on TV channels, especially the community channel and carriage of distant FM signals, both Canadian and U.S., is rarely permitted. Educational stations must be assigned as exclusive channel: where technically feasible, channel 2 uniformly in Ontario (OECA) and channel 8 uniformly for Radio-Quebec.
- Canadian Wirevision of Vancouver has been told to provide its community channel with adequate resources to serve its eight destinctive communities. North West Community Video of Nanaimo was also told that its community programming efforts were inadequate. Meanwhile, La Belle Vision of Trois-Rivieres and Shawinigan intends to use bi-directional facilities to decentralize community program production and make a larger choice of equipment available.
- Systems in the Toronto area have been denied duplicate carriage of U.S. stations.
 In decisions involving all three major Buffalo stations, the CRTC ruled that they could not be carried phase-locked on an impaired basic channel and also on a channel on the converter service.
- Hamilton area systems received approval for changes in distribution; they allow CBLFT to be carried phase-locked until October, 1977.

- Nor-Video Services of Atikokan, Ont., is to improve technical quality and community programming, reporting to the CRTC every three months.
- New cable systems have been licensed for Midway, B.C., and Tring Junction, Que.
- Urban Cablevision of Langford/Sooke,
 B.C., was denied a rate increase, the
 CRTC noting that the licensee had failed to
 meet community programming requirements imposed at renewal time last year.
- District 69 Cablevision Inc. of Parksville/Qualicum Beach, B.C., won approval for changes in its head-end sites.
- The plan of Rogers Cable TV to move its head-end from the T-D Centre to the Bank of Montreal tower (First Canadian Place) and relay signals to its three systems in the Toronto area was approved. The use of VHCM—Very High Capacity Microwave—is subject to DOC authorization. The CRTC also requested other cable operators, if interested, to co-operate with Rogers developing the new site as a common head-end.
- Cranbrook (B.C.) Television Ltd. was given an interim monthly rate increase to \$5.50, which will enable it to improve community programming, increasing to \$6.50 when microwave facilities are added to imporve Canadian signals. The facilities are to be available to other systems in the East Kootenay area.
- Augmented channel (converter) service is approved for Grimsby, (Ont.) Cable TV Ltd.,
- In approving rate increases for Creston (B.C.) Cable-Video Ltd., the CRTC noted that residents of a nearby area have undertaken to collect \$116.00 per home to assist in extending service to the area.
- Four systems serving the Ottawa area have won approval for a rate increase to \$6.50 monthly, effective with the operation of microwave to import signals from three Rochester, N.Y., stations. Commercial deletion and substitution will be required, and the licensees are to provide a progress report by April 1, 1977.

APPLICATIONS

The CRTC has set a deadline of August 20, 1976, for cable TV applications to serve Leeds County, Ontario.