



New Country

July 27, 2005

Ms Diane Rheume  
Secretary-General  
Canadian Radio-television and Telecommunications Commission  
Ottawa, Ont.  
K1A 0N2

CRTC PH 1:26 02AUG 05

Dear Ms. Rheume,

Re: Durham Radio Inc.  
Application to Change Frequency of CKDO-AM, Oshawa, Ontario

Durham Radio Inc. is filing the application attached to improve the service of CKDO-AM, Oshawa by changing its frequency from 1350 KHz to 1580 KHz. The change of frequency will allow CKDO-AM to do the following:

1. Improve its nighttime service to communities east of Oshawa which are in Durham Region and our BBM Central Area.
2. Simplify CKDO-AM's transmitter site from 5 towers to 2 towers, thus lowering the ongoing maintenance costs.
3. Utilize a frequency which is available in Oshawa and not useable further West in the GTA. It will allow 1350 to be used in the GTA if this application is approved.

This change of frequency can be accomplished efficiently and will be a great help to continue the revitalization of CKDO.

We would be pleased to answer questions you may have on this application.

10:40 AM  
 JUL 28 2005  
 RECEIVED  
 COMMUNICATIONS SECTION  
 CANADIAN RADIO-TELEVISION AND TELECOMMUNICATIONS COMMISSION

*margaret Kennedy*

Sincerely,

Durham Radio Inc.

*[Signature]*  
per Douglas E. Kirk, President

# Application for a Technical Amendment to a Broadcasting Licence for an Analog Radio Programming Undertaking

## GENERAL INSTRUCTIONS

CRTC Pt 1:35 02AUG'05

### 1. FILING

- Electronically by attaching it to the [Cover Page](#), which is available on our web site under "File or Register". One hard copy version must also be sent to the Secretary General, CRTC, Ottawa, Ontario, K1A 0N2. The onus is on the applicant/licensee to ensure that the electronic version is identical to the hard copy version.
- When filing your application electronically, please ensure that the file name of the electronic documents attached to your application form reflects the ascending order in which they should appear on the public file and that each file name include a brief description of the document content. For example, "Doc1-brief description of document"; "Doc2-brief description of document", and so forth. This will ensure that the application and all related documents are presented in the correct order once they are made available for public viewing.
- If the application is not filed electronically, one original and five copies must be filed with the Commission at the following address: Secretary General, CRTC, Ottawa, Ontario, K1A 0N2.

### 2. INSTRUCTIONS

- The following questionnaire is in HTML format and may be downloaded to the word processing software of your choice. This enables you to complete the downloaded questionnaire by inserting your response **in bold letters** immediately following the question. You may add lines to the tables if necessary but do not alter or delete any text from the questionnaire.
- You must file the Application Brief, which includes the questions and responses, and the Book of Supporting Documents, identified as Appendices in the questionnaire.
- The Application Brief, filed electronically or otherwise, must be divided into sections, and include the numbered questions, as set out in the questionnaire, each followed by the corresponding response.
- Where the Application Brief is filed electronically, all available documentation that forms part of the Book of Supporting Documents, except confidential material, must also be filed in electronic format.

- Complete the General Information section and then complete only those sections that relate to the proposed amendment(s).
- If you wish to enhance or clarify your application, such information should be filed as a **Supplementary Brief** identified as **APPENDIX 1A** in the Book of Supporting Documents.
- In the case of a proposal for a conversion from AM to FM, the licensee should obtain and complete application questionnaire CRTC 101-Application To Obtain A New Broadcasting Licence To Carry On A Commercial Radio Programming Undertaking.
- The Commission will not process the application if required technical documentation has not been filed with Industry Canada.

### 3. PUBLIC EXAMINATION FILE

- Copies of the Commission's letters requesting further information and copies of your replies form part of the application and must be available for examination by the public.

### 4. CONFIDENTIALITY REQUESTS

- Portions of the application may be treated as confidential, at your request, pursuant to section 20 of the *CRTC Rules of Procedure*.
- The onus is on the licensee to request confidentiality for the information or material and to clearly demonstrate that the public interest will best be served by treating the information as confidential. For further information, refer to Circular No. 429 dated 19 August 1998.
- The Commission has increased its security with epass authentication. The full security features of epass will be available in Summer 2004. You may choose to submit **CONFIDENTIAL** information using the electronic cover page, on diskette or cd-rom or in hard copy format. All **CONFIDENTIAL** information must clearly be marked as **CONFIDENTIAL**.

For Commission's use

Application number

Canadian Radio-television and Telecommunications Commission

## Application for a Technical Amendment to a Broadcasting Licence for an Analog Radio Programming Undertaking

### 1. GENERAL INFORMATION

**LOCATION OF**

**UNDERTAKING:** \_\_\_\_\_ Oshawa, Ontario \_\_\_\_\_

**CALL SIGN:** \_\_CKDO-AM\_\_\_\_\_

**1.1 IDENTIFICATION OF LICENSEE**

NAME: Durham Radio Inc.  
ADDRESS: 1200 Airport Blvd, Ste 207, Oshawa, Ontario L1J 8P5  
FAX: 905-571-1150  
E-MAIL: doug@kx96.fm

**CONTACT PERSON REPRESENTING THE LICENSEE**

(if there is no appointed agent under question 1.2)

NAME: Douglas E. Kirk  
TITLE: President  
TELEPHONE: 905-571-0949 x 475

**Please indicate the E-Mail address and FAX number that should be specified in a Public Notice.**

FAX: 905-571-1150  
E-MAIL: doug@kx96.fm

**1.2 APPOINTMENT OF AGENT**

I, \_\_\_\_\_ n/a \_\_\_\_\_, the licensee, hereby appoint \_\_\_\_\_ as my agent for and on my behalf and in my name to sign, file and complete (if necessary) an application with the Canadian Radio-television and Telecommunications Commission and to sign and file a reply with respect thereto and I do hereby ratify, confirm, and adopt as my own act, such application and all replies made thereto.

Date:  
At:  
Signature:  
ADDRESS OF AGENT:  
TITLE:  
TELEPHONE:  
FAX:  
E-MAIL:

**1.3 DECLARATION OF LICENSEE OR ITS APPOINTED AGENT**

I, \_\_\_\_\_ Douglas E. Kirk \_\_\_\_\_ SOLEMNLY DECLARE THAT:

- a) I am the \_\_\_\_\_ President \_\_\_\_\_ (representative/appointed agent) of the licensee named in this Application Brief and as such have knowledge of all

matters declared therein.

- b) The statements made in this application, or any document filed pursuant to any request for further information by the Commission, are (will be) to the best of my knowledge and belief true in all respects.
- c) The opinions and estimates given in this application, or any document filed pursuant to any request for further information by the Commission, are (will be) based on facts as known to me.
- d) I have examined the provisions of the *Broadcasting Act* and the broadcasting regulations relevant to this application.

**AND I HAVE SIGNED**

Signature:

Date: July 27, 2005

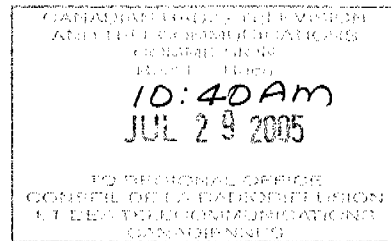
**WITNESSED BY**

Signature:

Name (Printed):

Date: July 27, 2005

At: Oshawa, Ontario



*Margaret Kennedy*

**1.4 EXAMINATION BY THE PUBLIC**

Indicate a location, within the area to be served, where the application may be examined by the general public. If several transmitters form part of your application, indicate a location within each area to be served.

**ADDRESS(ES): 1200 Airport Blvd., Ste 207, Oshawa, Ontario L1J 8P5**

**2. TECHNICAL INFORMATION**

Licenses are advised to consult with their broadcast engineering consultants when completing this section, to ensure that it is consistent with the Engineering Brief submitted to Industry Canada.

- 2.1 a)** Have all required technical documents been filed with Industry Canada?

YES ( X )

NO ( )

- b) I hereby authorize the Commission to include as part of this application any

documents or correspondence filed with Industry Canada with respect to this application.

YES ( X )

NO ( )

If NO, explain.

**2.2** Please provide the following technical information:

	<b>PRESENT OPERATION</b>	<b>PROPOSED OPERATION</b>	<b>NOTE</b>
Frequency	1350 kHz	1580 kHz	kHz for AM MHz for FM
Channel and Class	B	A	
Transmitter Power (for <b>AM</b> )	10000day/5000n/Watts	10000 Watts	
<b>MAXIMUM</b> - ERP (for <b>FM</b> ) (at beam-tilt angle)	Watts	Watts	<b>ERP</b> = Effective radiated power If no beam-tilt is used, provide ERP in horizontal plane
<b>AVERAGE</b> - ERP (for <b>FM</b> ) (at beam-tilt angle)	Watts	Watts	<b>ERP</b> = Effective radiated power If no beam-tilt is used, provide ERP in horizontal plane
<b>EHAAT</b> - Effective Height Above Average Terrain	metres	metres	FM only
Antenna and Transmitter Site Coordinates	43° 52' 19"N. 78° 45' 54"W.	43° 52' 19"N. 78° 45' 54"W.	North Latitude West Longitude
Studio Location(s)	1200 Airport Blvd Oshawa, Ontario	1200 Airport Blvd Oshawa, Ontario	City and, where possible street address
Subsidiary Communications (SCMO)/Subsidiary Data	YES ( ) NO ( x )	YES ( ) NO ( x )	
Programming Feed Method(s)	Bell Broadcast Lines	Bell Broadcast Lines	Satellite, microwave, fibre optic cable, other (specify)
For Rebroadcasting Stations, identify station rebroadcast	N/A	N/A	Call Letters Frequency Location

**SUPPORTING DOCUMENT TO BE APPENDED:**

**APPENDIX 2A** A clearly legible copy of the maps required in the Engineering Brief submitted to Industry Canada, and which show the proposed coverage contours.

Additional maps must be submitted comparing the service contours of both the present and proposed operations.

In addition to the originals, the Commission encourages you to submit your proposed coverage area contours in a geographical information system (GIS) compatible file format (for example, .mid/.mif, .tab, .dxf, .dwg, .e00, .shp, .dgn). Also provide the map datum and projection used. This file can be submitted electronically or on a diskette.

**APPENDIX 2B** Documentation supporting the availability of the proposed transmitter site(s), if new site(s) involved.

### 3. FINANCIAL OPERATIONS

**This section is applicable if the proposed technical amendment results in an INCREASED COVERAGE AREA.**

NOT APPLICABLE – See Supplementary Brief

**3.1** Complete the following table for each of the first 5 years of operation under the existing and the proposed scenario.

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
<b>REVENUE (after agency commissions)</b>					
(\$000)					
Network					
National					
Local					
Other (Specify)					
<b>TOTAL</b>					
<b>OPERATING EXPENSES</b>					
(\$000)					
Programming					
Canadian Talent Development					
Technical					
Sales, Advertising and Promotion					
Administration and General					
<b>TOTAL OPERATING EXPENSES</b>					
<b>NON-OPERATING EXPENSES</b>					
(\$000)					
Depreciation					
Interest					
Other (Specify)					
<b>TOTAL NON-OPERATING EXPENSES</b>					
<b>TOTAL EXPENSES</b>					

Estimated pre-tax  
income (loss)

Provision for Income Taxes

**NET INCOME (LOSS)**

**AFTER TAXES**

(for broadcasting  
operations only)

**Questions 3.2 to 3.4 are to be completed only where the cost of the technical amendment exceeds \$100,000.**

**NOT APPLICABLE – See Supplementary Brief**

**3.2** Provide the following information regarding capital costs and facilities:

	Costs of Assets to be purchased (\$)	Value of Assets to be leased (\$)	Annual lease payment (\$)
Studio Plant			
Transmitting Plant			
Contingency			
<b>TOTAL</b>			

**3.3** Specify the funds available to finance the proposed transaction:

**Equity:**

**Debt:**

**Total:**

**3.4** a) Specify the individual sources of financing for the funds identified in question 3.3 (for example, Bank loans, share capital, other loans).

**SOURCE**

**\$**

b) Where financing is to be provided, in whole or in part, through debt securities, provide the list of proposed debt holders, including names, citizenship or jurisdiction of incorporation (or other form of constitution), designation and description of debt securities held, and the principal amount of each one.

**SUPPORTING DOCUMENTS TO BE APPENDED:**

**APPENDIX 3A** Documentation supporting the availability of each source of financing identified in question 3.4 if the cost of the technical amendment exceeds \$100,000. (NOTE:

a) Where funds are to be provided, directly or indirectly, by a third party institution such as a bank, credit union, etc., submit a signed letter on the institution's stationery containing the following information:



"We have examined the financial projections of (Name of licensee) related to the application(s) before the Commission for a (type of application) to (location(s)) and we would be prepared to provide financing in the amount of (\$) under the following terms and conditions (specify ALL the terms and conditions), subsequent to a favorable decision by the Commission, for the purpose of providing capital and operating funds related to the undertaking(s)."

- b) Where funds are to be provided by an individual(s) whether for the purchase of share capital and/or the provision of debt securities, submit a signed statement of net worth from each individual, prepared and notarized within 3 months of the filing of the application.
- c) Where funds are to be provided, directly or indirectly, by a corporation or other legal entity other than the applicant or institutions in (a) or (b) above, submit the audited financial statement of the entity for its most recently completed year of operation, and interim financial statements for the period ending within six months of the filing of the application.)

#### **4. MARKETING**

**This section is applicable if the proposed technical amendment results in an INCREASED COVERAGE AREA.**

NOT APPLICABLE - See Supplementary Brief

**4.1** As a basis for revenue calculations, please specify the following:

**AVERAGE NUMBER OF COMMERCIAL MINUTES EXPECTED TO BE SOLD PER HOUR IN:**

1st YEAR:

5th YEAR:

**ESTIMATED TOTAL WEEKLY  
REACH 1st YEAR, PEOPLE 12 YEARS +**

IN CENTRAL AREA:

IN FULL COVERAGE AREA:

**ESTIMATED AVERAGE 1/4 HOUR RATINGS, CENTRAL AREA, MON - FRI, 1st YEAR  
(% Audience)**

06:00 - 10:00

10:00 - 14:00

14:00 - 19:00

19:00 - 24:00

**4.2** Provide quantitative estimates of the population within the service contours, as well as an estimate of the population within the area to which the station's principal marketing activities are/will be directed:

3 mV/m CONTOUR (FM) 15 mV/m CONTOUR (AM)	0.5 mV/m CONTOUR (FM) 5 mV/m CONTOUR (AM)	PRINCIPAL MARKETING AREA
--	---	--------------------------------

Population: Present  
 Population: Proposed  
 Households: Present  
 Households: Proposed

- 4.3 Please identify the sources from which population data has been obtained.
- 4.4 Indicate to which of the communities the station's principal marketing activities will be directed.

## BOOK OF SUPPORTING DOCUMENTS

APPENDIX NUMBER AND NAME	APPENDED (Yes or No)	E-FILED (Yes or No)
<b>SECTION 1: GENERAL INFORMATION</b>		
1A Supplementary Brief	Yes	
<b>SECTION 2: TECHNICAL INFORMATION</b>		
2A Maps - Proposed Coverage Contours	Yes	
2B Documentation Supporting the Availability of the Proposed Transmitter Site(s)	No	
<b>SECTION 3: FINANCIAL OPERATIONS</b>		
3A Documentation Supporting Availability of each Source of Financing	No	

This document is available in alternative format upon request.  
 CRTC 128 (2005-02-17) - Radio - Technical Amendment (Analog)  
 version française disponible

\*\*\*End of Document\*\*\*

## APPENDIX IA

### SUPPLEMENTARY BRIEF TO AN APPLICATION BY DURHAM RADIO INC. FOR A TECHNICAL AMENDMENT TO CKDO-AM, Oshawa, Ont.

Durham Radio Inc. owns and operates CKDO-AM, Oshawa, Ontario. CKDO-AM operates on 1350 KHz with 10,000 watts daytime and 5000 watts nighttime. The station uses two different antenna patterns- one for the daytime signal and a different more complex pattern for the night pattern. These patterns utilize 5 towers in different configurations for the day and night patterns.

While the day pattern on 1350 provides good coverage of most of Durham Region, the night pattern is very restricted to the east and west of Oshawa. The coverage to the west of Oshawa was supplemented by the addition of a 250 watt repeater on 107.7 MHz in early 2005. However, CKDO loses coverage to growing communities of Clarington (Bowmanville, Orono and Newcastle) which are an important part of Durham Region and included in the Oshawa CMA, our central BBM market.

In May 2005 the CRTC approved (Decision 2005-205) the conversion of CHUC-AM, Cobourg from the AM band to FM. The move of CHUC released the 1580 KHz channel for use on the east side of Toronto. A newly licenced station, CHHA-AM, on 1610 KHz in Toronto precludes the use of 1580 KHz in Toronto. Therefore, Durham Radio is proposing to use 1580 KHz in Oshawa to improve the service of CKDO-AM in the Oshawa CMA.

The change of frequency of CKDO-AM will provide many improvements for the station.

- i) It will allow CKDO-AM to operate with 10,000 watts day and night.
- ii) It will allow CKDO-AM to use the same antenna pattern day and night to provide more consistent coverage, particularly to communities east of Oshawa.
- iii) The coverage can be achieved with 2 towers instead of 5. This will simplify the CKDO-AM site and will lower ongoing maintenance costs of the site.
- iv) It will utilize a frequency that is limited in its ability to be used in Toronto. However, it will free up 1350 KHz which could be used in the Toronto area.

Our broadcast construction engineer estimates the change of frequency of CKDO-AM can be accomplished for \$60,000 to \$70,000. Durham Radio Inc. is prepared to invest this capital to accomplish the benefits noted for CKDO-AM. By the way, CKDO-FM-1 will continue to fill in areas where CKDO-AM's signal is below 5 mV/m in the Durham Region areas of Ajax, Pickering and parts of Uxbridge on the western side of Oshawa. These are areas where CKDO's signal may be weak for good reception.

We are excited about this plan for CKDO-AM in that it provides another positive step in the revitalization of this radio station. It utilizes a frequency that may be lost to American stations if it is not utilized in Canada. It provides improved service at lower cost for CKDO and opens up a frequency (1350 KHz) for possible re-use in the Greater Toronto Area. We look forward to the Commission's approval of this application.

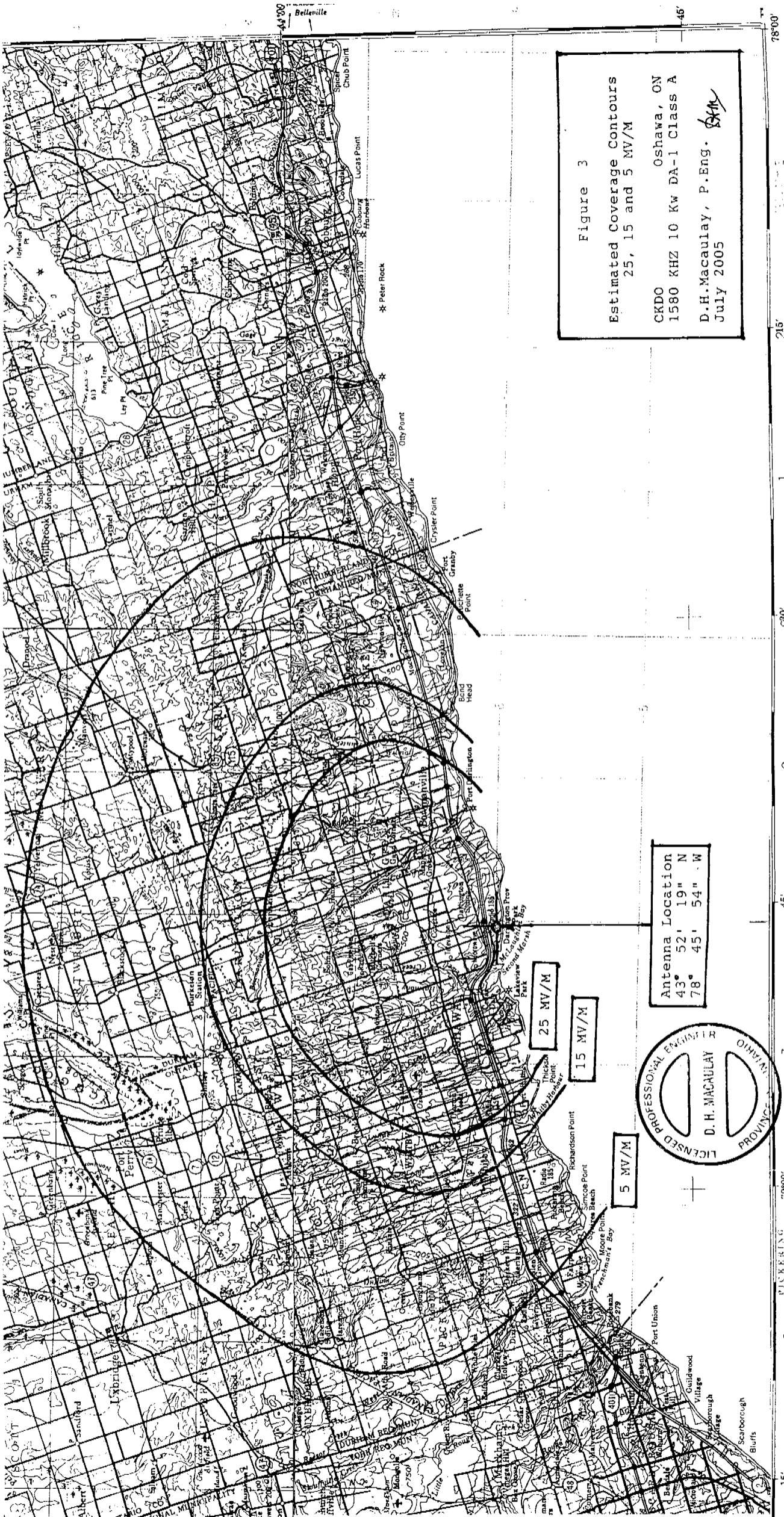


Figure 3  
 Estimated Coverage Contours  
 25, 15 and 5 MV/M  
 CKDO Oshawa, ON  
 1580 KHZ 10 Kw DA-1 Class A  
 D.H. Macaulay, P.Eng. *DHM*  
 July 2005

Antenna Location  
 43° 52' 19" N  
 78° 45' 54" W



25 MV/M  
 15 MV/M  
 5 MV/M

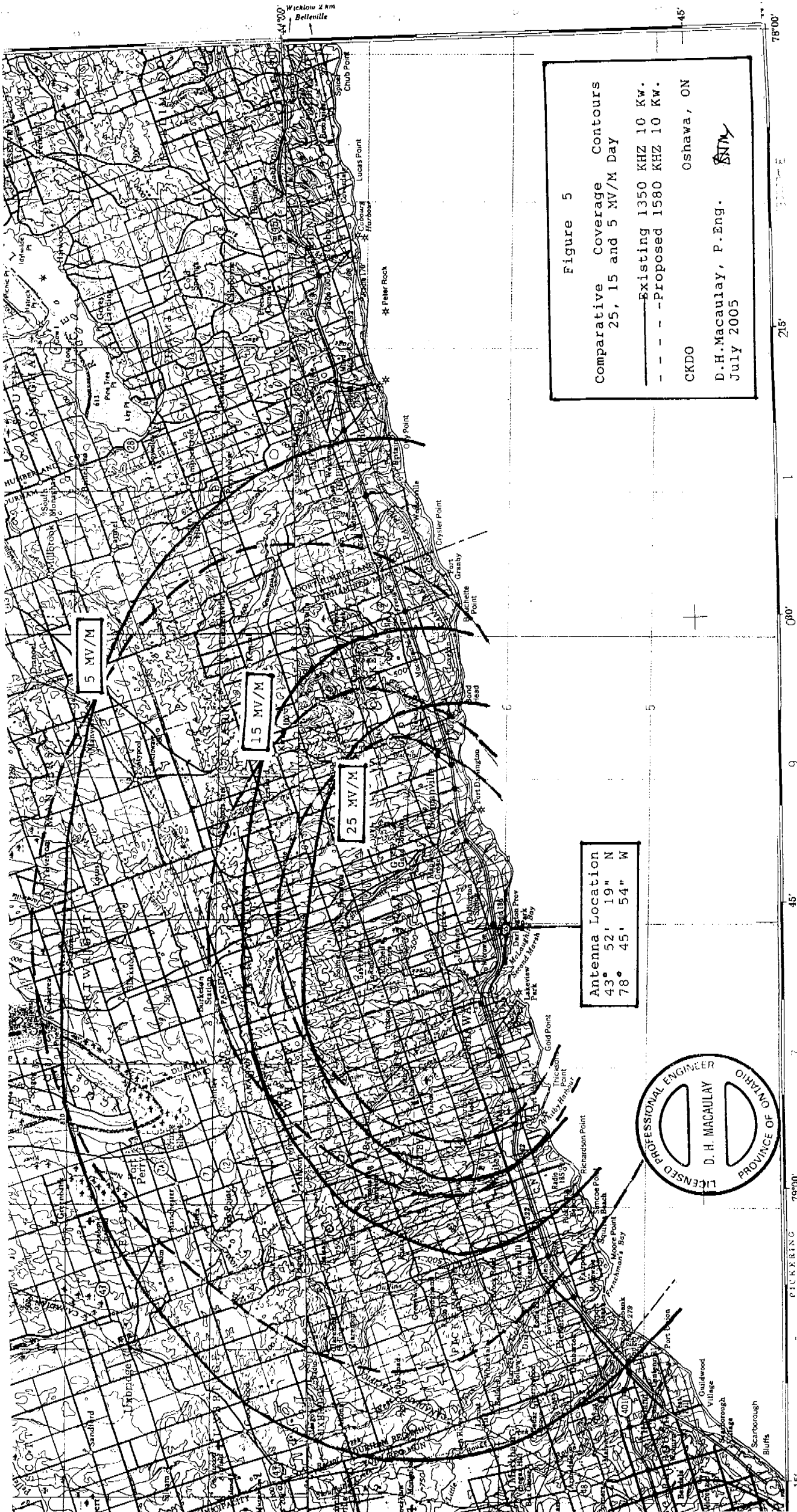
15' 5 5 PICKERING 79°00' 7 45' 9 080' 1 215' 78°00'

La détermination magnétique pour 1971, valeur de 24°18' Ouest au centre de la feuille est à l'usage de référence de la feuille. La détermination magnétique pour 1983 est de 24°11' Ouest.

Quatrième édition mise à jour par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES, à partir des photos aériennes prises en 1953-58. Vérification des ouvrages en 1982, 1988-1970, imprimé en 1974.

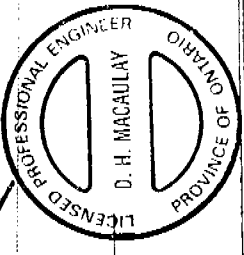
LAKE SIMCOE  
 ONTARIO

HURON  
 EGBERDURY  
 41° N  
 45° W  
 80° W  
 84° W

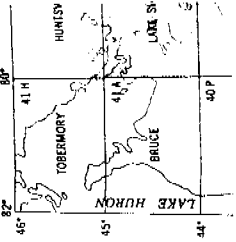


**Figure 5**  
**Comparative Coverage Contours**  
**25, 15 and 5 MV/M Day**  
 - - - Existing 1350 KHZ 10 KW.  
 - - - Proposed 1580 KHZ 10 KW.  
 CKDO Oshawa, ON  
 D.H. Macaulay, P. Eng.  
 July 2005

**Antenna Location**  
 43° 52' 19" N  
 78° 45' 54" W



Quatrième édition mise à jour par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, LE MINISTÈRE DES MINES ET DES RESSOURCES, d'après des photos aériennes prises en 1963, 1966. Vérification des ouvrages en 1963, 1968, 1970, imprimée en 1974.  
 La déclinaison magnétique pour 1971 varie de 08°18' Ouest au centre de la limite Ouest à 10°28' Ouest au centre de la limite Est. Variation moyenne annuelle 3,7' Ouest.



78°00' 215' 080' 45' 7 9 15 20 Miles

Scale 1:250,000 Échelle 1:250,000

20 Miles

Roads: 1. 2. hausses séparées plus de 2000'



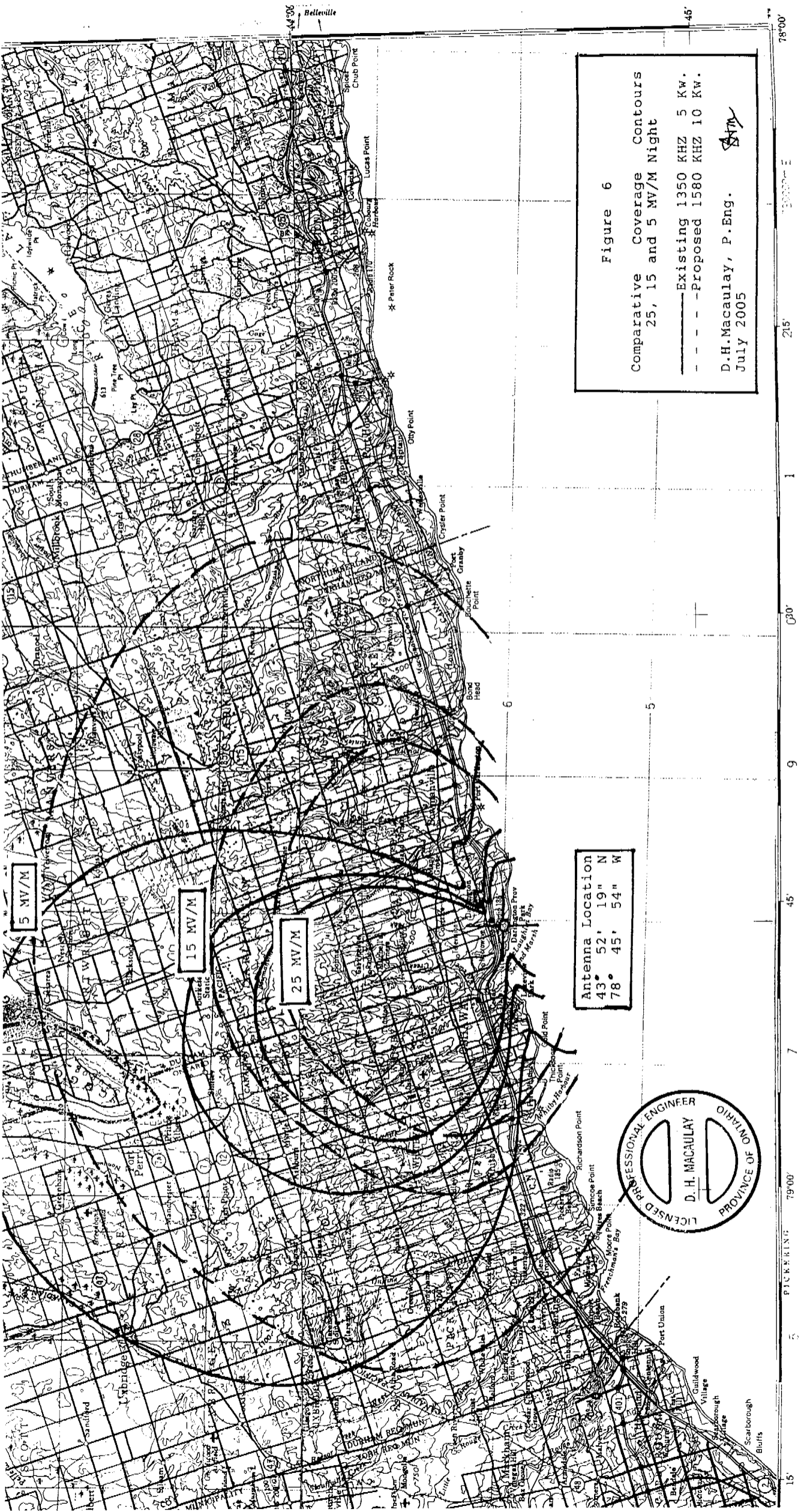
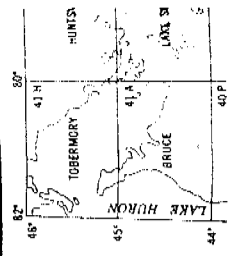
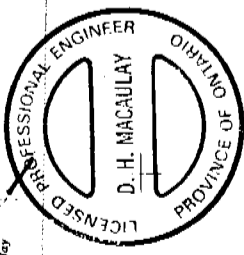


Figure 6  
 Comparative Coverage Contours  
 25, 15 and 5 MV/M Night  
 - - - Existing 1350 KHZ 5 KW.  
 - - - Proposed 1580 KHZ 10 KW.  
 D.H. Macaulay, P. Eng.  
 July 2005

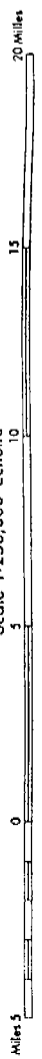
Antenna Location  
 43° 52' 19" N  
 78° 45' 54" W



Quatrième édition mise à jour par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES NATURELLES en 1974. Les données géométriques sont basées sur les données de la carte de référence au centre de la ligne Ouest à 10728 Ouest au centre de la latitude Est. Variation moyenne annuelle 0,7 Ouest.

LAKE SIMCOE  
 ONTARIO

Scale 1:250,000 Échelle



Routes

2 caractères à parties plus de 2 zones