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Spectrum Management and Telecommunications Policy

Radiocommunication Information Circular

Guide for Calculating Radio Licence Fees

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Comments and suggestions may be directed to the following address:

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Preface

The purpose of this Radiocommunication Information Circular (RIC) is to provide the general public with information on how to calculate their radio licence fees for radiocommunication systems operating in the following services:

- Public Information Service,
- Developmental Service,
- Fixed Service,
- Land Mobile Service, and
- Radiodetermination service.

The *Radiocommunication Regulations* exempt **mobile stations** in the aeronautical and maritime service, as well as fixed and **mobile stations** in the amateur service, from the requirement of obtaining a radio licence. A radio apparatus is exempted provided that it complies with certain exemption criteria.

More details on exemption criteria for ship and aircraft stations can be found on our internet Web site at: http://strategis.ic.gc.ca/epic/internet/insmt-gst.nsf/vwGeneratedInterE/h_sf01775e.html.

For the amateur service, details can be found on our internet Web site at: <http://strategis.ic.gc.ca/epic/internet/insmt-gst.nsf/vwGeneratedInterE/sf02088e.html>.

For information on the calculation of licence fees for radiocommunication systems operating in Fixed Radio Frequency Bands (such as microwave systems, including Space stations), please contact one of our district offices. A list of Industry Canada's district offices can be found in [Radiocommunication Information Circular 66](#) (RIC-66).

[Radiocommunication Information Circular 19](#) (RIC-19) provides Radiocommunication Service Provider licensees, and potential licensees, with information on System Licensing and how it applies to radio licences issued to service providers and their subscribers, with particular attention to the concept of High, Medium, and Low Congestion zones. System Licensing applies to both mobile dispatch systems (two-way radiocommunications) and to paging systems (one-way radiocommunications).

Introduction

Under the *Radiocommunication Act*, the Minister of Industry is responsible for the orderly establishment of radio stations as well as the orderly development and efficient operation of radiocommunication in Canada, while respecting the policy objectives set out in the *Telecommunications Act*.

The radio authorization process is one of several features of the spectrum management program, established under the authority of the Minister, to accomplish these objectives. Radio licensing provides for the operation of radio systems, according to government policies and technical requirements. Licensing also helps to prevent harmful interference between stations.

References

[Radiocommunication Act](#)

[Radiocommunication Regulations](#)

[Telecommunications Act](#)

[Department of Industry Act](#)

Under the *Radiocommunication Act* the Governor in Council may set fees for radio authorizations¹ and for services provided by Industry Canada which are related to spectrum management.

Fees for radio licences are set out in the *Radiocommunication Regulations*. The applicable fee is determined by the type of station licensed and the type of service used. In certain cases, the amount of radio frequency spectrum required or number of frequencies assigned and the location of operations are also taken into account.

This circular may be used to assist in calculating radio licence fees as prescribed in the *Radiocommunication Regulations*, Part VIII, entitled “Fees”.

For Narrowband Multipoint Communication Systems (MCS) refer to [Internal Procedure Circular 2-1-14](#) (IPC-2-1-14). A MCS consists of either a fixed or mobile master radio station communicating on a one- or two-way basis with associated remote stations. The master station controls, activates or interrogates two or more remote sites and receives communications from these remote sites or both. A MCS can be operated by a radiocommunication user or a radiocommunication service provider.

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"radio authorization" means a licence, certificate or authorization issued by the Minister under paragraph 5(1)(a) of the Radiocommunication Act .

For Fixed Wireless Access systems operating below 1 GHz refer to Internal Procedure Circular 2-1-23 (IPC-2-1-23) [To be published]. Fixed Wireless Access systems, also known as Wireless Local Loop Systems, are defined as a system that connects subscribers to the public switched telephone network (PSTN) using radio signals as a substitute for copper for all or part of the connection between the subscriber and the switch. Fixed wireless access generally refers to the use of radio to provide access to a public telecommunications network for telephone and/or data services serving residential and business communities.

Licensing Principles

A transmitter and its associated receiver are generally located at the same site, however, if they are located at different sites they shall be considered as separate stations for licence fee purposes and licensed accordingly.

Different radio sites are defined as locations that are more than 100 metres apart. In cases where the applicant has two installations on or in the same building, separated by more than 100 metres, Industry Canada will determine, on a case-by-case basis, whether one or two radio licences should be issued.

Duplicate facilities, when established at the same site for circuit protection purposes and which have the same frequency complement, shall **not** be subject to duplicate licences or fees. Facilities that are not duplicate for circuit protection but are considered to be on the same site will be charged the sum of the fees applicable to the complement of radio apparatus located at that site.

Definitions

The radio licence fee payable for new stations include both the issuance fee and the monthly fee and are calculated from the month the licence is issued to March 31.

1. **Radio licence fee**, is the fee payable for the issuance, continuance in force, renewal or reinstatement of a radio licence and is composed of the following, as applicable:

Definitions

1. Radio Licence fee

- (a) Issuance fee
- (b) Monthly fee
- (c) Renewal fee
- (d) Reinstatement fee
- (e) Short-term fee

2. Telephone Channel Equivalencies

(a) the **issuance fee** is payable for the initial issuance of a radio licence as set out in column II of the applicable item of Parts I to VII of Schedule III of the *Radiocommunication Regulations*.

(b) the **monthly fee**, is payable for the continuance in force of a radio licence until the radio licence has expired as set out in column III of the applicable item of Parts I to VII of Schedule III of the *Radiocommunication Regulations*.

(c) the **renewal fee** is the annual fee payable for the renewal of a radio licence, before the licence expires on March 31 of each year, and is set out in column IV of the applicable item of Parts I to VII of Schedule III of the *Radiocommunication Regulations*.

Licence Renewal Fee is the annual fee that you must pay to renew your licence. You will be mailed a renewal invoice prior to the licence expiry date of March 31.

(d) the **reinstatement fee** is payable for the reinstatement of a radio licence after the licence has expired on March 31 of any year as is set out in:

(i) column V of the applicable item of Parts I to VII of Schedule III of the *Radiocommunication Regulations*, where the fee is paid during the period beginning on April 1 and ending on April 30 of the following year; and

(ii) column VI of the applicable item of Parts I to VII of Schedule III of the *Radiocommunication Regulations*, where the fee is paid during the period beginning on May 1 and ending on March 31 of the following year.

(e) the **short-term fee**, is payable for the issuance and continuance in force of a radio licence for a term of not more than 30 days and is the sum of the issuance fee set out in column II and the monthly fee set out in column III of the applicable item of Parts I to VII of Schedule III of the *Radiocommunication Regulations*.

Short-Term Licence Fee is the fee you must pay if you require a licence that is valid for only 30 days. Short-term licences are available for all classes of radio licences.

These schedules can be found in **Appendix A** of this document.

2. Telephone Channel Equivalencies: For the purpose of calculating the radio licence fees payable for a radio licence authorizing operation on certain frequencies for radio apparatus installed in a fixed station or space station referred to in section 61 or 65 or 73 of the *Radiocommunication Regulations*, section 58.(c) applies:

58.(c) one digitally modulated channel is equivalent to the number of telephone channels calculated by dividing the modulation bit rate by 64 kilobits per second.

General Information

The following information applies to most types of radio licences:

1. All radio apparatus must be licensed under the *Radiocommunication Act* unless it is only capable of receiving broadcasting or is exempted under the applicable standard of the *Radiocommunication Regulations*.
2. There is a separate fee for each transmit and receive frequency. The total licence fee is the sum of all of the individual fees for the station. This does not apply to mobile stations.

3. Radio station licensees are to inform the Department of any changes they make to their radio station's operating parameters, such as a change of location, frequency, power level, antenna height or pattern. They may also have to submit a revised application for further review by Industry Canada.
4. There is no charge for a licence amendment if the location and type of service remain the same. If you request an amendment that results in a higher fee, the amendment fee is the difference between your original fee and the new fee.
5. The date the Department authorizes the licence, not the date the radio station application was submitted, determines the monthly fee. The fee payable for a new licence is the sum of the issuance fee and the total monthly fee.
6. Licence fees must be paid in full before the radio licence can be issued. Once issued, the licence is valid until its expiry date which, for all but short term licences, is March 31. No portion of the licence fee is refundable.

Radiocommunication Services and Stations

Part 1, section 3 of the *Radiocommunication Regulations* outlines the radiocommunication services and stations for which radio licences can be issued.

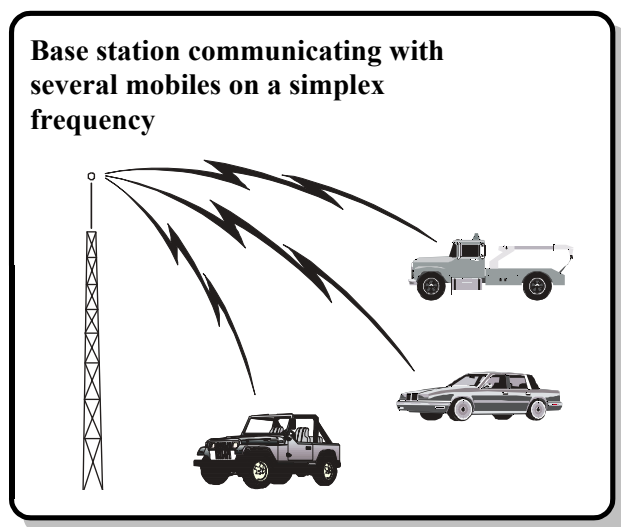
	Services	Fee Schedules	Type of Stations
(i)	Aeronautical service	Schedule III, Part I, Item 2	Mobile stations
		Schedule III, Part III, Item 1	Fixed stations
(ii)	Amateur radio service	<i>item repealed SOR/2000-78</i>	
(iii)	Public information service	Schedule III, Part I, Item 3	Mobile stations
		Schedule III, Part III, Item 2	Fixed stations
(iv)	Developmental service	Schedule III, Part I, Item 4	Mobile stations
		Schedule III, Part III, Item 1	Fixed stations
(v)	Fixed service	Schedule III, Part II	Fixed stations
		Schedule III, Part III, Item 1	Fixed stations
		Schedule III, Part III, Item 2	Fixed stations
(vi)	Intersatellite service	Schedule III, Part VI	Fixed stations
		Schedule III, Part VII, Item 1	Fixed stations
(vii)	Land mobile service	Schedule III, Part IV, Item 1(a), 1(b)	Fixed stations
		Schedule III, Part V	Fixed stations
(viii)	Maritime service	Schedule III, Part I, item 5	Mobile stations
		Schedule III, Part I, Item 2	Mobile stations
(ix)	Radiodetermination service	Schedule III, Part III, Item 1	Fixed stations
		Schedule III, Part I, Item 4	Mobile stations
		Schedule III, Part III, Item 1	Fixed stations

Example 1:

Fixed Base Station Communicating with Mobiles located in a Metropolitan Area

This example describes how to calculate your radio licence fee if the radio system you intend to use is made up of one base station communicating with 6 mobile stations. In this example, the stations are in the Land Mobile Service and **not** part of a radiocommunication service provider system. You intend to install your base station in downtown Saskatoon, Saskatchewan in April.

(System Configuration)



Base Station

1. From **Schedule IV**, Saskatoon is a metropolitan area.
2. From **Schedule III, Part IV, Item 1(a)**, under “Metropolitan Area”, the radio licence fee for a fixed station communicating with a mobile station in a metropolitan area is the sum of the issuance fee (**Column II**), \$35 plus the monthly fee (**Column III**) \$9.70 times 12 months (April 1 to March 31); for each assigned transmit or received frequency.
3. Since the fee is based on the number of transmit and receive frequencies, and there is one transmit frequency and one receive frequency required, the total fee for the base station is \$302.80: $(\$35 + (12 \text{ months} \times \$9.70)) \times 2 \text{ (frequencies)} = \302.80
4. For a short term licence (**one month duration**), the licence fee would be the issuance fee (**Column II**) plus the monthly fee (**Column III**): $(\$35 + \$9.70) \times 2 \text{ (frequencies)} = \89.40
5. The renewal fee (**Column IV**) for the following year will be: $2 \text{ (frequencies)} \times \$116 = \$232.$

Frequency (MHz)		Communicating with	Channel ²		Licence Fee Calculation		
Transmit (TX)	Receive (RX)		TX	RX	Issuance	Renewal	Monthly / Short-term
160.000	160.000	mobile stations	1	1	\$35 + \$35	\$116 + \$116	\$9.70 + \$9.70

² Channel means the number of transmit and/or receive frequencies assigned.

Mobile Stations

1. From **Schedule III, Part I, Item 5**, under the “Mobile station in the Land Mobile service”, the radio licence fee for each mobile is the sum of the issuance fee (**Column II**) \$12 plus the monthly fee (**Column III**) which is \$3.40 times 12 months (April 1 to March 31), for a total of \$52.80 per mobile stations.
2. Multiply the licence fee per unit by the number of mobile stations involved (6) to give you the total licence fee for the mobile stations.

6 mobiles x \$52.80 = \$316.80

3. For a short-term licence (**one month duration**) the licence fee would be the issuance fee plus the monthly fee:

\$12 + \$3.40 = \$15.40 for a single mobile station

4. The renewal fee (**Column IV**) for the following year will be: 6 mobiles x \$41 = \$246.

Frequency (MHz)		Communicating with	Channel		Licence Fee Calculation		
Transmit (TX)	Receive (RX)		TX	RX	Issuance	Renewal	Monthly / Short-term
160.000	160.000	base stations	1	1	\$12	\$ 41	\$ 3.40

Total System Fee Calculation:

Base Station \$ 302.80
 Mobile Stations \$ 316.80

Total Fee: \$ 619.60 (Initial radio licence)

The total renewal fee (**Column IV**) for the following year will be:

Base Station \$ 232
 Mobile Stations \$ 246

Total Fee: \$ 478 (Renewal)

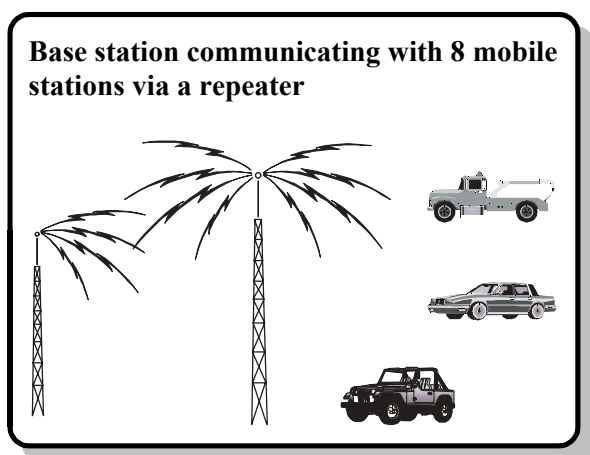
For a station located in a non-metropolitan area, refer to **Schedule III, Part IV, Item 1(b)** under “Other Area”. The same calculations applies.

Example 2:

Base Station Communicating with Mobile Stations via a Repeater

This example describes how to calculate your radio licence fee if the radio system that you intend to use is made up of a base station communicating with 8 mobile stations via a repeater. In this example, the stations are in the Land Mobile Service and **not** part of a radiocommunication service provider system. You intend to install your base station in June in an area that is **not** considered metropolitan under **Schedule IV**.

(System Configuration)



Base Station

1. From **Schedule III, Part II, Item 1**, the fee for a fixed station communicating with another fixed station is the sum of the issuance fee or \$10 plus the monthly fee of \$2.80 times 10 months, which covers the period from June to March the following year.
2. Since the fee is based on the number of assigned transmit and receive frequencies, and there is one transmit and one receive required, the total fee for the base station is:

$$(\$10 \times 2) + ((\$2.80 \times 2) \times 10 \text{ months}) = \$76.00$$

Frequency (MHz)		Communicating with	Channel		Licence Fee Calculation		
Transmit (TX)	Receive (RX)		TX	RX	Issuance	Renewal	Monthly / Short-term
160.000	161.000	mobile stations via repeater	1	1	\$10 + \$10	\$34 + \$34	\$2.80+ \$2.80

3. For a short-term licence (**one month duration**) the licence fee would be the issuance fee plus the monthly fee: $(\$10 + \$2.80) \times 2 = \$25.60$
4. The renewal fee for the following year will be \$68.00

Repeater Station

The repeater is made up of the following two components *a* and *b* below:

- a. a fixed station communicating with another fixed station;

1. From **Schedule III, Part II, Item 1**, the fee for a fixed station communicating with another fixed station is the sum of the issuance fee (**Column II**) or \$10 plus the monthly fee (**Column III**) of \$2.80 times 10 months, which covers the period from June to March the following year.
2. Since the fee is based on the number of assigned transmit and receive frequencies, and there is one transmit and one receive required, the total fee for the base station is:

$$(\$10 \times 2) + ((\$2.80 \times 2) \times 10 \text{ months}) = \$76.00$$

b. a fixed station communicating with a mobile station.

1. From **Schedule III, Part IV, Item 1(b)**, under “Other Area”, the fee for a fixed station communicating with mobile stations, is the sum of the issuance fee (**Column II**) or \$16 plus the monthly fee (**Column III**) of \$4.40 times 10 months, which covers the period from June to March the following year.
2. Since the fee is based on the number of assigned transmit and receive frequencies, and there is one transmit and one receive required, the total fee for the base station is:

$$(\$16 \times 2) + ((\$4.40 \times 2) \times 10 \text{ months}) = \$120.00$$

$$\text{Total licence fee for the repeater station is: } \$76.00 + \$120.00 = \$196.00$$

Mobile Station

1. From **Schedule III, Part I, Item 5**, under the “Mobile station in the Land Mobile service”, the licence fee for each mobile is the issuance fee (**Column II**), \$12 plus the monthly fee (**Column III**) which is \$3.40 times 10 months, for a total of \$46 per mobile station..
2. Multiply the fee by the number of mobile stations involved (8) to get the fee for the mobiles

$$8 \text{ mobiles} \times (\$12 + (\$3.40 \times 10)) = \$368.$$
3. For a short-term licence (**one month duration**) the licence fee would be the issuance fee plus the monthly fee:

$$\$12 + \$3.40 = \$15.40$$
4. The renewal for the following year will be: 8 mobiles x \$41 = \$328.

Frequency (MHz)		Communicating with	Channel		Licence Fee Calculation		
Transmit (TX)	Receive (RX)		TX	RX	Issuance	Renewal	Monthly / Short-term
160.000	161.000	base station via repeater	1	1	\$12	\$41	\$ 3.40

Total System Licence Fee Calculation:

- 1. Base Station \$ 76
 - 2. Repeater Station
 - Fixed to fixed (transmit & receive) \$ 76
 - Fixed to mobile (transmit & receive) \$ 120
 - 3. Mobile Stations: 8 \$ 368
- Total Fee: \$ 640**

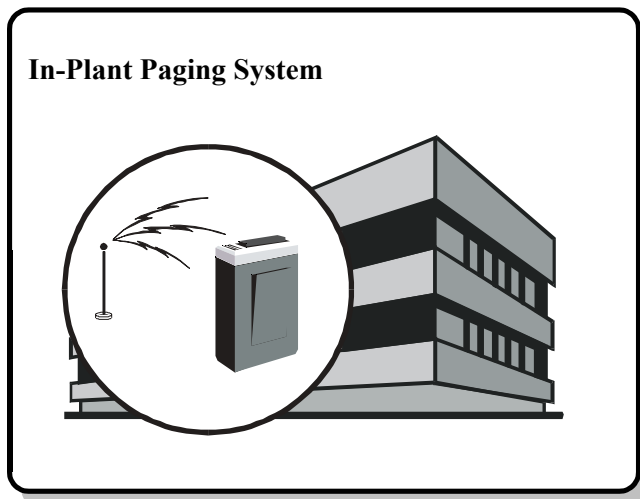
Note: When there are no base stations communicating via the repeater i.e. mobiles only, the “fixed station communicating with another fixed station” component does not apply.

Example 3:

In-Plant Paging System

This example describes how to calculate your licence fees if you intend to install an in-plant paging system for your business. Your business is located in downtown Saint John, New Brunswick and you would like an authorization starting in April.

(System Configuration)



Base Station

- 1. From **Schedule IV**, Saint John is a metropolitan area.
- 2. From **Schedule III, Part IV, Item 1(a)**, the licence fee for a fixed station communicating with a mobile station in a metropolitan area is the sum of the issuance fee (**Column II**), \$35 plus the monthly fee (**Column III**) which is \$9.70 times 12 months (April 1 to March 31) for each assigned transmit or receive frequency.
- 3. Since there is no receive frequency, the total

fee for the paging transmitter is:

$$\$35 + (\$9.70 \times 12 \text{ months}) = \$151.40$$

4. For a short-term licence (**one month duration**) the licence fee would be the issuance fee plus the monthly fee:

$$(\$35 + \$9.70) = \$44.70$$

5. The renewal fee (**Column IV**) for the following year will be: \$116.

Frequency (MHz)		Communicating with	Channel		Licence Fee Calculation		
Transmit (TX)	Receive (RX)		TX	RX	Issuance	Renewal	Monthly / Short-term
149.000	-	paging receivers	1	-	\$35	\$116	\$9.70

Total System Fee Calculation:

1. Base Station	\$151.40
2. Paging Receivers	exempt*
Total Fee:	\$151.40

***Note:** Paging Receivers, under the *Radiocommunication Regulations*, are exempt from licensing, so there is no licence fee.

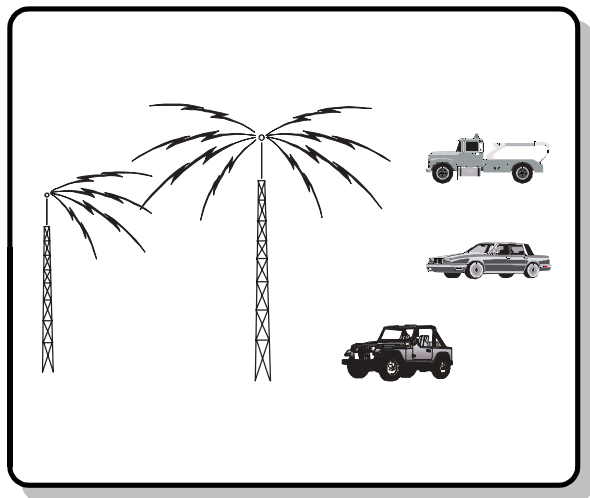
The radio licence fee applicable to radiocommunication service providers providing paging services is outlined in Schedule III, Part V, item 3.

Example 4:

Repeater System for a Radiocommunication Service Provider

This example describes how to calculate your radio licence fee for a repeater system if you are a radiocommunication service provider in the Land Mobile Service. You intend to put the system in operation in April. The station is located downtown Ottawa, Ontario.

(System Configuration)



Repeater Station

1. From **Schedule VI**, Ottawa is considered as a medium congested zone.
2. From **Schedule III, Part V, Item 2(b)**, under Dispatch, the licence fee for a fixed station in the Land Mobile Service installed in a medium congested zone is the sum of the issuance fee (**Column II**), \$158 plus the monthly fee for one year (**Column III**) \$43.80 for each assigned transmit or received frequency.

Total Fee Calculation:

$$(\$158 \times 2) + ((\$43.80 \times 2) \times 12) = \$1367.20$$

3. The renewal fee for the following year will be \$1052.00 as there are no issuance fees:

$$\$526.00 \times 2 = \$1052.00$$

4. For a short-term licence (**one month duration**) the licence fee would be the issuance fee plus the monthly fee:

$$(\$158 \times 2) + (\$43.80 \times 2) = \$403.60$$

Total Fee: \$403.60

Frequency (MHz)		Communicating with	Channel		Licence Fee Calculation		
Transmit (TX)	Receive (RX)		TX	RX	Issuance	Renewal	Monthly / Short-term
460.0375	465.0375	subscribers	1	1	\$158+\$158	\$526+\$526	\$43.80+\$43.80

In the case where a radiocommunication service provider would be using radio links between stations, **Schedule III, Part II** would apply since the function of the links is **not for dispatch purposes** but for Point-to-Point communications between fixed stations.

Appendix A

Schedule III

Part I

"(Sections 55, 56 and 60)

Fee Schedule Applicable for a Mobile Station in any Service other than the Amateur Radio Service" SOR/2000-78

Item	Column I Type of Station, for all Authorized Transmit and Receive Frequencies	Column II Issuance Fee	Column III Monthly Fee	Column IV Renewal Fee	Column V Reinstatement Fee (April)	Column VI Reinstatement Fee (May)
1.	"Item repealed." SOR/2000-78					
2.	Mobile station in the aeronautical or maritime services	\$11.00	\$3.00	\$36.00	\$38.00	\$41.00
3.	Mobile station in the public information service	11.00	3.00	36.00	38.00	41.00
4.	Mobile station in the developmental or radiodetermination service	12.00	3.40	41.00	43.00	46.00
5.	Mobile station in the land mobile service	12.00	3.40	41.00	43.00	46.00
6.	Mobile station communicating with a space station	12.00	3.40	41.00	43.00	46.00
7.	Other mobile station	12.00	3.40	41.00	43.00	46.00

Schedule III (continued)

Part II

(Sections 55, 56, 58, 61 and 65)

Fee Schedule Applicable to Radiocommunication Users for Fixed Stations that Communicate with other Fixed Stations or Space Stations

Item	Column I Number of Telephone Channels per Radio Frequency Assigned to each Transmitter or Receiver	Column II Issuance Fee	Column III Monthly Fee	Column IV Renewal Fee	Column V Reinstatement Fee (April)	Column VI Reinstatement Fee (May)
1.	From 1 to 24	\$10.00	\$ 2.80	\$ 34.00	\$ 36.00	\$ 39.00
2.	From 25 to 60	13.00	3.50	42.00	44.00	48.00
3.	From 61 to 120	15.00	4.20	50.00	53.00	57.00
4.	From 121 to 300	27.00	7.60	91.00	96.00	103.00
5.	From 301 to 600	45.00	12.60	151.00	159.00	171.00
6.	From 601 to 960	64.00	17.80	213.00	224.00	241.00
7.	From 961 to 1,200	83.00	23.10	277.00	291.00	314.00
8.	1,201 or more	\$83.00, plus \$19.00 per 300 telephone channels or portion thereof in excess of 1,200	\$23.10, plus \$5.30 per 300 telephone channels or portion thereof in excess of 1,200	\$277.00, plus \$63.00 per 300 telephone channels or portion thereof in excess of 1,200	\$291.00, plus \$66.00 per 300 telephone channels or portion thereof in excess of 1,200	\$314.00, plus \$71.00 per 300 telephone channels or portion thereof in excess of 1,200

Schedule III (continued)

Part III

(Sections 55, 56, 62 and 72)

Fee Schedule Applicable to Radiocommunication Users for Fixed Stations Operating in Certain Services

	Column I	Column II	Column III	Column IV	Column V	Column VI
Item	Type of Station, for all Authorized Transmit and Receive Frequencies	Issuance Fee	Monthly Fee	Renewal Fee	Reinstatement Fee (April)	Reinstatement Fee (May)
1.	Fixed station referred to in subsection 62(1) or section 72 of these Regulations	\$12.00	\$3.40	\$41.00	\$43.00	\$46.00
2.	Fixed station in the public information service	11.00	3.00	36.00	38.00	41.00

Schedule III *(continued)*

Part IV

(Sections 55, 56, 63 and 64)

**Fee Schedule Applicable to Radiocommunication Users for Fixed Stations
in the Land Mobile Service**

	Column I	Column II	Column III	Column IV	Column V	Column VI
	For each Assigned Transmit or Receive Frequency	Issuance Fee	Monthly Fee	Renewal Fee	Reinstatement Fee (April)	Reinstatement Fee (May)
Item						
1.	(a) Metropolitan Area	\$35.00	\$9.70	\$116.00	\$122.00	\$131.00
	(b) Other Area	16.00	4.40	53.00	56.00	60.00

Schedule III *(continued)***Part V***(Sections 55, 56 and 66 to 71)***Fee Schedule Applicable to Radiocommunication Service Providers for Fixed Stations
in the Land Mobile Service**

Item	Column I Type of Operation, and Area, Congestion Zone or Coverage Area	Column II Issuance Fee	Column III Monthly Fee	Column IV Renewal Fee	Column V Reinstatement Fee (April)	Column VI Reinstatement Fee (May)
1.	For each assigned transmit or receive frequency					
	(a) Metropolitan Area	\$ 35.00	\$ 9.70	\$ 116.00	\$ 122.00	\$ 131.00
	(b) Other Area	16.00	4.40	53.00	56.00	60.00
2.	Dispatch					
	For each assigned transmit or receive frequency					
	(a) High Congestion Zone	315.00	87.60	1,051.00	1,104.00	1,191.00
	(b) Medium Congestion Zone	158.00	43.80	526.00	552.00	596.00
	(c) Low Congestion Zone	79.00	21.80	262.00	275.00	297.00
3.	Paging					
	For each assigned transmit or receive frequency					
	(a) High Congestion Zone	110.00	30.70	368.00	386.00	417.00
	(b) Medium Congestion Zone	95.00	26.30	316.00	332.00	358.00
	(c) Low Congestion Zone	79.00	21.80	262.00	275.00	297.00
4.	Cellular Mobile Radio Frequencies					
	For each assigned transmit or receive frequency	142.00	39.40	473.00	497.00	536.00

Item	Column I Type of Operation, and Area, Congestion Zone or Coverage Area	Column II Issuance Fee	Column III Monthly Fee	Column IV Renewal Fee	Column V Reinstatement Fee (April)	Column VI Reinstatement Fee (May)
5.	Broadband Personal Communications Services Radio Frequencies					
	For each 10 MHz assigned block of transmit or receive frequencies					
	(a) Coverage Area radius is \geq 1 km	2,700.00	750.00	9,000.00	9,450.00	10,200.00
	(b) Coverage Area radius is < 1 km	27.00	7.50	90.00	95.00	102.00
6.	Narrowband Personal Communications Services Radio Frequencies					
	For each 12.5 kHz assigned block of transmit or receive frequencies	158.00	43.80	525.00	551.00	595.00

Schedule III *(continued)***Part VI***(Sections 55, 56, 58 and 73)***Fee Schedule Applicable for Space Stations that Communicate
with Fixed Stations or Space Stations**

	Column I	Column II	Column III	Column IV	Column V	Column VI
Item	Number of Telephone Channels per Radio Frequency Assigned to each Transmitter or Receiver	Issuance Fee	Monthly Fee	Renewal Fee	Reinstatement Fee (April)	Reinstatement Fee (May)
1.	From 1 to 24	\$ 353.00	\$ 98.10	\$1,177.00	\$ 1,236.00	\$ 1,334.00
2.	From 25 to 60	441.00	122.60	1,471.00	1,545.00	1,667.00
3.	From 61 to 120	530.00	147.10	1,765.00	1,853.00	2,000.00
4.	From 121 to 300	946.00	262.70	3,152.00	3,310.00	3,572.00
5.	From 301 to 600	1,608.00	446.60	5,359.00	5,627.00	6,074.00
6.	From 601 to 960	2,269.00	630.30	7,564.00	7,942.00	8,573.00
7.	From 961 to 1200	2,931.00	814.30	9,771.00	10,260.00	11,074.00
8.	1201 or more	\$2,931.00, plus \$662.00 per 300 telephone channels or portion thereof in excess of 1,200	\$814.30, plus \$183.90 per 300 telephone channels or portion thereof in excess of 1,200	\$9,771.00, plus \$2,207.00 per 300 telephone channels or portion thereof in excess of 1,200	\$10,260.00, plus \$2,317.00 per 300 telephone channels or portion thereof in excess of 1,200	\$11,074.00, plus \$2,501.00 per 300 telephone channels or portion thereof in excess of 1,200

Schedule III *(concluded)*

Part VII

(Sections 55, 56 and 74)

Fee Schedule Applicable to Radiocommunication Service Providers for Space Stations that Communicate with Mobile Stations

	Column I	Column II	Column III	Column IV	Column V	Column VI
Item	For Each Assigned Transmit or Receive Frequency	Issuance Fee	Monthly Fee	Renewal Fee	Reinstatement Fee (April)	Reinstatement Fee (May)
1.	Space Station	\$142.00	\$39.40	\$473.00	\$497.00	\$536.00

Schedule IV*(Sections 55, 63, 66 and 79)***Metropolitan Areas**

Item	Column I Metropolitan Area	Column II North Latitude	Column III West Longitude	Column IV	Column V
1.	Calgary, Alta.	50° 51'	113° 50'	51° 13'	114° 18'
2.	Chicoutimi-Jonquière, Que.	48° 22'	70° 55'	48° 27'	71° 13'
3.	Edmonton, Alta.	53° 19'	113° 10'	53° 45'	113° 45'
4.	Halifax, N.S.	44° 35'	63° 29'	44° 43'	63° 40'
5.	Hamilton, Ont.	43° 09'	79° 43'	43° 24'	80° 00'
6.	Kitchener, Ont.	43° 20'	80° 16'	43° 32'	80° 36'
7.	London, Ont.	42° 54'	81° 08'	43° 03'	81° 21'
8.	Montréal, Que.	45° 21'	73° 18'	45° 45'	74° 00'
9.	Oshawa, Ont.	43° 50'	78° 45'	43° 57'	78° 55'
10.	Ottawa-Hull, Ont., Que.	45° 17'	75° 30'	45° 30'	75° 55'
11.	Québec, Que.	46° 41'	71° 06'	46° 52'	71° 25'
12.	Regina, Sask.	50° 22'	104° 29'	50° 33'	104° 43'
13.	Saint John, N.B.	45° 13'	66° 00'	45° 18'	66° 10'
14.	Saskatoon, Sask.	52° 04'	106° 23'	52° 15'	106° 47'
15.	St. Catharines-Niagara, Ont.	43° 03'	79° 02'	43° 17'	79° 20'
16.	St. John's, Nfld.	47° 30'	52° 32'	47° 38'	52° 48'
17.	Sudbury, Ont.	46° 25'	80° 46'	46° 34'	81° 02'
18.	Thunder Bay, Ont.	48° 18'	89° 09'	48° 29'	89° 20'
19.	Toronto, Ont.	43° 24'	78° 55'	43° 55'	79° 43'
20.	Vancouver, B.C.	49° 00'	122° 31'	49° 23'	123° 17'
21.	Victoria, B.C.	48° 24'	123° 15'	48° 45'	123° 32'
22.	Windsor, Ont.	42° 13'	82° 50'	42° 21'	83° 07'
23.	Winnipeg, Man.	49° 42'	96° 57'	50° 00'	97° 30'

Schedule V

(Sections 55, 67, 68 and 78)

High Congestion Zones

Item	Column I	Column II		Column III		Column IV		Column V		Column VI		Column VII		Column VIII		Column IX		Column X	
	Regional Area	Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates	
		North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.
1.	Calgary, Alta.	51° 06'	114° 13'	51° 06'	113° 58'	50° 57'	113° 58'	50° 57'	114° 13'	-	-	-	-	-	-	-	-	-	-
2.	Edmonton, Alta.	53° 36'	113° 37'	53° 36'	113° 23'	53° 28'	113° 23'	53° 28'	113° 37'	-	-	-	-	-	-	-	-	-	-
3.	Montréal, Que.	45° 24'	74° 00'	45° 41'	73° 44'	45° 42'	73° 27'	45° 31'	73° 24'	45° 24'	73° 27'	-	-	-	-	-	-	-	-
4.	Toronto, Ont.	44° 08'	79° 40'	44° 00'	78° 45'	43° 02'	78° 45'	43° 02'	79° 30'	43° 10'	80° 00'	43° 40'	80° 00'	-	-	-	-	-	-
5.	Vancouver, B.C.	49° 23'	123° 25'	49° 23'	122° 08'	49° 00'	122° 08'	49° 00'	123° 20'	49° 19'	123° 25'	-	-	-	-	-	-	-	-
6.	Victoria, B.C.	49° 20'	124° 30'	49° 20'	124° 00'	48° 50'	123° 00'	48° 18'	123° 15'	48° 18'	123° 45'	48° 35'	123° 45'	-	-	-	-	-	-

Schedule VI
(Sections 55, 67, 68 and 78)
Medium Congestion Zone

Item	Column I Regional Area	Column II		Column III		Column IV		Column V		Column VI		Column VII		Column VIII		Column IX		Column X		Column XI	
		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates		Geographical Coordinates	
		North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.	North Lat.	West Long.
1	Calgary, Alta.	51° 13'	114° 18'	51° 13'	113° 50'	50° 51'	113° 50'	50° 51'	114° 18'	-	-	-	-	-	-	-	-	-	-	-	-
2	Chicoutimi, Que.	48° 23'	71° 18'	48° 28'	71° 18'	48° 38'	70° 48'	48° 33'	70° 48'	48° 23'	71° 00'	-	-	-	-	-	-	-	-	-	-
3	Chilliwack, B.C.	49° 23'	122° 08'	49° 23'	121° 30'	49° 00'	121° 30'	49° 00'	122° 08'	-	-	-	-	-	-	-	-	-	-	-	-
4	Edmonton, Alta.	53° 45'	113° 45'	53° 45'	113° 10'	53° 19'	113° 10'	53° 19'	113° 45'	-	-	-	-	-	-	-	-	-	-	-	-
5	Halifax, N.S.	44° 48'	63° 46'	44° 48'	63° 25'	44° 33'	63° 25'	44° 33'	63° 46'	-	-	-	-	-	-	-	-	-	-	-	-
6	London, Ont.	43° 08'	81° 26'	43° 08'	81° 03'	42° 54'	81° 03'	42° 54'	81° 26'	-	-	-	-	-	-	-	-	-	-	-	-
7	Montréal, Que	45° 36'	74° 31'	46° 03'	73° 28'	46° 03'	73° 04'	45° 32'	72° 52'	45° 21'	72° 10'	45° 30'	71° 45'	45° 20'	71° 45'	45° 12'	72° 10'	45° 12'	74° 07'	-	-
8	Ottawa, Ont.	45° 35'	76° 00'	45° 35'	75° 25'	45° 12'	75° 25'	45° 12'	76° 00'	-	-	-	-	-	-	-	-	-	-	-	-
9	Québec, Que	46° 49'	71° 32'	46° 40'	71° 22'	46° 40'	71° 13'	46° 49'	71° 06'	46° 55'	71° 10'	46° 55'	71° 20'	-	-	-	-	-	-	-	-
10	Regina, Sask.	50° 33'	104° 43'	50° 33'	104° 29'	50° 22'	104° 29'	50° 22'	104° 43'	-	-	-	-	-	-	-	-	-	-	-	-
11	Saint John, N.B.	45° 18'	66° 12'	45° 24'	66° 00'	45° 10'	66° 00'	45° 10'	66° 12'	-	-	-	-	-	-	-	-	-	-	-	-
12	Saskatoon, Sask.	52° 12'	106° 45'	52° 12'	106° 23'	52° 05'	106° 23'	52° 05'	106° 45'	-	-	-	-	-	-	-	-	-	-	-	-
13	St. John's, Nfld.	47° 38'	52° 50'	47° 38'	52° 36'	47° 29'	52° 36'	47° 29'	52° 50'	-	-	-	-	-	-	-	-	-	-	-	-
14	Sudbury, Ont.	46° 36'	81° 07'	46° 36'	80° 46'	46° 25'	80° 46'	46° 25'	81° 07'	-	-	-	-	-	-	-	-	-	-	-	-
15	Thunder Bay, Ont.	48° 29'	89° 20'	48° 29'	89° 09'	48° 18'	89° 09'	48° 18'	89° 20'	-	-	-	-	-	-	-	-	-	-	-	-
16	Toronto, Ont.	44° 16'	79° 20'	44° 07'	78° 30'	42° 53'	78° 30'	42° 53'	80° 00'	43° 20'	80° 45'	43° 40'	80° 45'	43° 40'	80° 22'	44° 02'	80° 00'	44° 40'	80° 00'	44° 40'	79° 20'
17	Trois-Rivières, Que.	46° 32'	72° 42'	46° 32'	72° 35'	46° 23'	72° 27'	46° 18'	72° 35'	-	-	-	-	-	-	-	-	-	-	-	-
18	Vancouver, B.C.	49° 50'	124° 50'	50° 00'	124° 30'	49° 23'	123° 10'	49° 23'	123° 25'	49° 19'	123° 25'	49° 00'	123° 20'	49° 20'	124° 00'	-	-	-	-	-	-
19	Victoria, B.C.	49° 50'	125° 20'	49° 50'	124° 50'	49° 20'	124° 00'	49° 20'	124° 30'	48° 35'	123° 45'	48° 18'	123° 45'	49° 20'	125° 20'	-	-	-	-	-	-
20	Windsor, Ont.	42° 21'	83° 07'	42° 21'	82° 45'	42° 05'	82° 45'	42° 05'	83° 07'	-	-	-	-	-	-	-	-	-	-	-	-
21	Winnipeg, Man.	50° 02'	97° 22'	50° 02'	96° 51'	49° 44'	96° 51'	49° 44'	97° 22'	-	-	-	-	-	-	-	-	-	-	-	-