

VOLUME 3

SECTION 10

WIRELESS TELECOMMUNICATION



**Managed by
Spectrum Management Authority
2nd Floor VMBS Building
53 Knutsford Boulevard
Kingston5**

TABLE OF CONTENT

CHAPTER 1.....1

BACKGROUND

CHAPTER 2.....3

HOW TO APPLY

CHAPTER 3.....4

STANDARDS

CHAPTER 4.....5

TYPE APPROVAL CERTIFICATION

APPENDICES

CHAPTER I

BACKGROUND

I.0 ROLE OF THE SPECTRUM MANAGEMENT AUTHORITY

The Spectrum Management Authority (SMA) was established by the Telecommunications Act, 2000 with the specific mandate to ensure the efficient management of Jamaica's Radio Frequency (RF) Spectrum and Orbital Locations. The SMA is the sole organisation with the authority to:

- allocate frequency spectrum,
- assign radio frequency to operators, and
- license the use of frequencies by various radio frequency devices.

SMA's management of the spectrum entails:

- Managing access to the radio frequency spectrum through band planning, frequency assignment and licensing.
- Monitoring compliance with licensing agreements to protect all legal spectrum users.
- Identifying, investigating and assisting in resolving interference problems.
- Identifying and eliminating illegal use of the spectrum.
- Representing Jamaica's interests in spectrum related matters internationally.

I.1 LICENCES ISSUED BY THE SMA

Operators are prohibited from using radio frequency devices without first obtaining authorization in the form of a licence, from the SMA.

Spectrum Licences are issued for the following operations:

- Aircraft station
- Ship station
- Fixed wireless
- VSAT
- Earth station for international gateway
- Cellular radio systems
- Paging service
- Radio Relay service
- Citizens band
- Alien Amateur Permits
- Private Radio Stations: emergency and security services, amateur radio operators.

Non-spectrum Certifications are issued for:

- Radio Technicians
- Ship radio operators
- Type Approvals

CHAPTER2

HOW TO APPLY

2.0 APPLICATION FORMS

Permission to operate radio devices can be obtained by submitting an application to the SMA on prescribed forms. Devices that do not require a licence must first obtain Type Approval Certification from the SMA. Information on the requirements to obtain Type Approval certification is at Appendix I. Samples of forms are attached as Appendices I-15

Application forms and information in relation to spectrum licences and non-spectrum certifications may be obtained from the SMA offices or downloaded from the Authority's web-site - www.sma.gov.jm.

2.1 FEES

2.1.1 Spectrum Licence Fees

Spectrum Licence fees are paid annually to the Authority for the use of the frequency bands and are calculated pursuant to Regulations under the Radio and Telegraph Control Act. These fees are remitted to the Consolidated Fund.

2.1.2 Spectrum Regulatory Fees

Regulatory fees are calculated on an annual basis in order to cover the reasonable operating costs incurred by the Authority in relation to spectrum licences.

2.1.3 Processing Fees

Processing fees are to be charged in relation to each spectrum application. Processing fees are non-refundable

Information on current fees charged by the SMA is at Appendix 9. This information can also be obtained from the SMA offices or downloaded from the Authority's web-site at www.sma.gov.jm.

CHAPTER 3

STANDARDS

3.0

The SMA is guided by standards obtained from international standards organizations, viz., the International Telecommunications Union (ITU), Federal Communications Commission (FCC), American National Standards Institute (ANSI), European Telecommunication Standards Institute (ETSI), Institute of Electrical and Electronic Engineers (IEEE). In addition, local legislation and Regulations are used as regulatory tools in the day-to-day management process.

Local Legislations include:

- Telecommunications Act 2000.
- Radio and Telegraph Control Act 1973.
- Broadcasting and Radio Re-Diffusion Act.

CHAPTER 4

TYPE APPROVAL CERTIFICATION

4.0 WHAT IS TYPE APPROVAL CERTIFICATION AND WHY IS IT REQUIRED?

Type approval of radio communication equipment is the authorization of equipment which has never been granted a licence for manufacturing or importation, by verifying the compliance of the equipment against the standards which have been adopted by the SMA Administration. It ensures that the equipment from various manufacturers conform to appropriate standards and principles of product safety and will not interfere with other equipment or networks.

It is mandatory to obtain type approval for any radio equipment intended for use in Jamaica.

4.1 WHAT TYPES OF EQUIPMENT REQUIRE TYPE APPROVAL CERTIFICATION?

Radio communication equipment used in land (fixed and mobile), maritime mobile, aeronautical mobile and amateur services requires type approval.

4.2 STANDARDS

Type approval for Radio Communication equipment in Jamaica is done by recognition of type approval test reports which are prepared according to international standards. In-country testing is not required.

4.2.1 Radio Standard:

Jamaica recognises the international standards set by the following bodies:

FCC:	Federal Communications Commission (USA)
ANSI:	American National Standards Institute
ETSI:	European Telecommunications Standardisation Institute
ITU:	International Telecommunications Union

4.2.2 Electromagnetic Compatibility (EMC) Standard:

Radio communication equipment should have EMC standard in accordance with international standards.

4.2.3 Electrical Safety Standard:

Radio communication equipment should have Electrical Safety standard in accordance with international standards.

4.3 PROCEDURE FOR CERTIFICATION

Applications are accepted from:

- i Manufacturer of equipment or authorized institution.
- ii An individual user for a specific piece of equipment.

Written applications from an individual or company should be sent to:

Spectrum Management Authority
2nd Floor VMBS Building
53 Knutsford Boulevard
Jamaica, W.I.
Tel: 876 929 8550
Fax: 876 960 8981

Application forms are downloadable from the Authority's website at www.sma.gov.jm

- Provide the required technical information/documentation
- SMA will acknowledge receipt of application within two (2) working days.
- SMA will review application and request additional documentation if required.
- SMA will issue Type Approval Certificate with Type Approval ID number.

4.4 DOCUMENTATION/INFORMATION AND OTHER REQUIREMENTS

The following information and supporting documentation are required to begin processing the application for certification.

- i Name/Address of Manufacturer
- ii Authorisation from Manufacturer (in case where applicant is an authorised institution)

- iii Equipment Specification – name, type, frequency bands, output power
- iv FCC or other Standards Body Certification
- v Electromagnetic Compatibility (EMC) Report
- vi Safety Report (optional)
- vii Commissioning Report.
- viii User Manual
- ix Country of Origin verification

4.5 LABELLING/MARKING REQUIREMENTS

Labelling/marketing is the process of specifying a registration number on the radio communication equipment which is made or imported into the country. This is an optional requirement.

4.6 APPLICABLE FEE

The fee for Type Approval Certification is US\$250.00 per model. This is payable to the:

Spectrum Management Authority
2nd Floor VMBS Building
53 Knutsford Boulevard
Kingston 5
Jamaica W.I.

4.7 PROCESSING TIME

The Certificate will be processed and dispatched within 15 business days after receipt of all documentation.

4.8 TERMS AND CONDITIONS OF CERTIFICATION

- The certificate is valid under condition that the equipment being granted approval is identical to the type tested one.
- Any changes to the name or model of the type approved

equipment will require a new type approval. This involves reapplication with revised supporting documents. If the technical specifications have not been amended, reference can be made to original type approval. However, the applicant must submit a letter of declaration stating that the technical specifications for the old named/model equipment is the same as the new name/model equipment.

- The Certificate may be revoked if holders use it beyond approved scope or if it is determined to have been obtained illegally.

4.9 OTHER LICENSING REQUIREMENTS

Applicants may be required to obtain other licences to make, import or install radio communication equipment depending on the regulation governing such equipment.

Declaration: All information presented to the **SMA** will be treated as confidential and will not be disclosed to third parties.

4.10 CONTACT INFORMATION

For further information please contact:

Spectrum Management Authority
2nd Floor VMBS Building
53 Knutsford Boulevard
Kingston 5
Jamaica, W.I.
Telephone: (876) 929-8550/929-8520
Fax: (876) 960-8981
Web-site: www.sma.gov.jm

Appendix I**TELECOMMUNICATIONS ACT****Application for Citizens Band Radio Station Licence****PLEASE TYPE OR PRINT**

1. Name of Applicant
2. Address
.....
3. Telephone.....Fax.....E-mail.....
4. Nationality
5. Date of Birth
6. Occupation or Nature of Business
.....
.....
.....
7. Location of Base Station(s) sited within two miles radius of an aerodrome
.....
8. Number of base stations
9. Number of mobile stations
10. Who will use the Citizens Band Radio Service:

Individual
Family
Business Enterprise
Others (please specify)
11. Purpose of Application:

New Licence
Additional Licence
Amendment/Substitute

If Additional Licence or Amendment/Substitute, please indicate current licence numbers

.....

.....
Signature of Applicant

.....
Date

SMA-005

Last modified: 29/05/2006

Spectrum Management Authority, 53 Knutsford Boulevard, 2nd Floor VMBS Building, Kingston 5
Tel/fax: (876) 929-8550/8520

Appendix I

SCHEDULE TO APPLICATION FOR CITIZENS BAND RADIO STATION LICENCE

Item	Type of Location of Station	Call Sign Preferred	TRANSMITTER			
			Make Model and Serial No.	Frequency Band MHz	Emission Designation	Watts Mean Power
1	2	3	4	5	6	7

Appendix 2



THE TELECOMMUNICATIONS ACT

Application for Maritime Mobile Radio Station Licence

PLEASE TYPE OR PRINT

- 1.Name of Applicant
- 2.Address of Applicant.....
- 3.Nature of Business.....
- 4.Registered Office Address
- 5.Nationality of Applicant.....
- 6.Proposed date for start of operations.....
- 7.Class of station. Please tick appropriate box.

Coast 2
Category or Classification

Ship 3
Category or Classification

8.Class/Type of Radio Operator’s Certificate(s) held by Radio Operator(s)

.....
.....
.....
.....

9. To be completed in case of Coast Station only

- i) Address of transmitter site
- ii) Address of control point
(if different from above):.....
- iii) Geographical co-ordinates of transmitter site
- iv) Name of transmitting station
- v) Nature of service (please tick appropriate box)

Public correspondence
Port operations
Ship movement
Emergency (i.e. Distress, Urgency & Safety)
Other
Please specify

Appendix 2

10. To be completed in case of ship station only

- i) Name of vessel
- ii) Flag signal
- iii) Type of vessel. Please tick appropriate box.
- | | | |
|-----------|--------------|------------------------------------|
| Passenger | - | foreign going including home trade |
| Passenger | - | coastal |
| Cargo | - | foreign going including home trade |
| Tanker | - | foreign going including home trade |
| Tanker | - | coastal |
| Tug | | |
| Yacht | | |
| Fishing: | length..... | (ft./metres) |
| Other: | length | (ft./metres) |
- iv) Gross maximum registered tonnage
- v) Registered owner:
- Name:
- Address:
- Nationality:
- vi) Port of registryOfficial Reg. No.
- vii) Port where radio installation may be inspected:
-
-
- viii) Call sign preferred:
- ix) Technical particulars of reserve power supply :
-
-

Name of Authorised
Company Representative:

Title:

Signature: **Date:**

- Notes**
1. Where the Applicant is a Registered Company, a list of the names of the Directors and authorised Officer together with their addresses and nationalities should accompany the Application.
2. If Application is for a Private Ship Station Licence, the word “Commercial” or “Non-commercial” must be entered in the “category or classification” line.

Appendix 2

RADIO STATION TECHNICAL CHARACTERISTICS

Equipment	Make or Manufacturer	Model or Type Designation	Power (watts)	Emission Designation	Desired Frequency Bands/assigned Frequency	Coast Station in Transmitting Antenna only		
						Azimuth of Maximum Radiation	Angular Width of Radiation Main Lobe	Antenna Gain
Transmitters								
Ship's Emergency Transmitters								
Survival Craft Transmitters								
Radar								
Direction Finder								
Auto Alarm Radio-telegraph								
Other								

Appendix 3**APPLICATION FOR EARTH STATION (VSAT)**

The following must be submitted with the completed Application Form:

1. A letter stating the nature of business of the Applicant and the specific purpose(s) for which the VSAT Earth Station is required.
2. A copy of the Company's Registration Certificate
3. A copy of the Company's Articles of Association
4. A letter from the Satellite Company indicating its intent to enter into an agreement with the Applicant, the assigned frequencies, and the station to be communicated with, in respect of proposed service.
5. A copy of the manufacturer's technical specification for the transmitter, receiver and antenna.
6. A letter from the Applicant's technical representative accepting responsibility for the planning and maintenance of the station.
7. Certificate confirming that the Applicant has been granted Free Trade Zone status.
8. Processing Fee of J\$25,000
9. a copy of the Company's Domestic Carrier licence, International (Voice/Data) Carrier Licence and International (Voice/Domestic) Service Provider (issued by the OUR)

Upon grant of licence: Spectrum Fee of J\$500,000.00
Regulatory Fee of \$350,000.00

Appendix 3**APPLICATION FOR EARTH STATION LICENCE****PLEASE TYPE/PRINT**

Name of Applicant:

Address:

Nature of Business:.....

Telephone No.Fax:.....Email.....

Type of Service:

Name and Address of Satellite Provider:

.....

Earth Station Receiving Characteristics

Make and Model:

1. Assigned frequencies (Downlink):.....

2. Assigned frequency band:

3. Date of bringing into use:....

a) Location of station:

b) Country:.....

c) Geographic coordinates:

4. Class of emission:

5. a) Antenna size:

b) Antenna gain:

c) Receive G/T:

d) Elevation Angle:

6. Azimuth:

Appendix 3

SMA-007

Last modified: 2005 February 16

- 7. Altitude (a.m.s.l):
- 8. Polarization:
- 9. Receive Noise Temperature.....
- 10. Regular Hours of Operation:.....
- 11. Maintenance of System:

Earth Station Transmitting Characteristics

- Make and Model:
- 1. Assigned frequencies (uplink):
 - 2. Assigned frequency band:
 - 3. Proposed date of bringing into use:.....
 - 4. Transmitter Power
 - a) Transmitter Power (saturated):
 - b) Maximum Radiated Power:
 - 5. Antenna Gain:
 - 6. Polarization:
 - 7. Modulation
 - a) Modulation (FDM-FM)
 - b) Modulation (TV):
 - c) Modulation (other):
 - 8. Regular hours of operation:
 - 9. Operating Satellite:.....
 - 10. Name of Receiving Earth Station.....
 - 11. Location of Receiving Earth Station.....

Name of Authorized
Co. Representative:

Title:

Signature:.....Date.....

Appendix 4**The Telecommunications Act, 2000****Application for Alien Amateur Radio Station Permit****PLEASE TYPE OR PRINT**

1. Name: Tel#:.....
2. Nationality:
3. Permanent address in home country:
.....
4. Place of Birth:
Date of Birth:
5. Present Occupation:
Name of Employer:
Address of Employer:
6. Expected date of arrival in Jamaica:
Projected date of departure from Jamaica:
7. Address while in Jamaica:
.....
8. Passport or travel document number:
Place where issued:
Date of issue:
Date of expiration:
9. Amateur Radio Station Licence Number:
Date of issue Date of expiration:
Call Sign:

Signature: Date:**NOTES**

1. Where no passport is available, proof of identity is required. This is an essential requirement.
2. If normally domiciled in a country other than that for which citizenship is claimed, a valid passport must be produced as proof of citizenship.
3. If self-employed, please state name of company under which trade or profession is carried on, if other than your own.
4. A photocopy of the Amateur Radio Station Licence held must be forwarded with this application.
5. If your amateur station is to be operated at any place in Jamaica other than at the address given for period exceeding 48 hours, an itinerary showing projected places and dates must be given.

Appendix 5



RADIO AND TELEGRAPH CONTROL ACT

Application for Amateur Radio Station Licence

PLEASE TYPE OR PRINT

Name of Applicant:

Address:

.....

Contact Number:

**Nature of
Business/Profession:**

Nationality:

Date of Birth:

**Radio Operator's
Certificate Held:**

**Class of Station Licence
applied for:**

**Class of Station Licence
previously held:**

**Proposed location
of Station:**

Appendix 5

Please attach a copy of your recorded transmission over the last 12 consecutive months. (Class A Applicants only)

Signature of Applicant:

Date:

Appendix 6**APPLICATION FOR A LICENCE TO ESTABLISH
AND MAINTAIN AN AERONAUTICAL GROUND STATION**

PLEASE TYPE OR PRINT

Name of Applicant:
Address:
Nature of Business:
Name and Location of station:
Give longitude and latitude in degrees and minute:
Operating Frequency:
Class of Emission:
Make and Model No. of Transmitter:
Power Output:
Name of Authorised Company Representative:	
Title:	
Signature: Date	

Appendix 7

SCHEDULE TO APPLICATION FOR SPECTRUM LICENCE

Item	Type and Location of Station	Call Sign Preferred	Transmitter				Antenna		
			Make & Model	Frequency MHz	Emission Designation	Mean Power Watts	Height Above Ground	Polarization & Gain	Directivity



Applicant:

Telephone Number:

Place of Birth:

Permanent Home Address:

Name of Spouse:.....

National I.D. or TRN No:

<p>This application has been vetted and approved by the SMA Enforcement Division</p>	<p>DECLARATION</p> <p>I the undersigned hereby declare that the information given on this form is true.</p>
<p>Place Signature, Date and Stamp of authorised SMA officer</p>	<p>Sign.....</p> <p>Name (PRINT).....</p> <p>Date.....</p>

ii

Appendix 8

Spectrum Management Authority
Application for Type Approval of Radiocommunication Equipment

Date of Application:

Part 1. Applicant Information

Name of Applicant

Address:

.....

.....

On behalf of (if applicant is an authorized institution):.....

Telephone no:

Facsimile no:

E-mail address:

Part 2. Attached Documents and Equipment

Technical Specifications of Equipment

A copy of the test report or certification of the technical characteristics of the radio communication equipment, issued by a recognized test or certification body.

Name of test or certification institution.....

.....

Country

A copy of accreditation certificate of test or certification body

EMC Report

Safety Report

Commissioning Report

User Manual (may be optional if test procedure outlines the operations of the equipment)

Letter of Authorization (if applicant is an Authorized institution).

A physical sample of the equipment requiring type approval

Others (please state)

.....

Processing fee of US\$250.00 per model for type approval certification

Appendix 8

Part 3 Radio communication Equipment Information

3.1 Equipment: 3.2 Type:
3.3 Brand Name: 3.4 Model:.....
3.5 Manufacturer: 3.6 Country
3.7 Frequency Band Transmit: MHz
Receive: MHz
3.8 ITU Emission Designator.....
3.9 Proposed use of Equipment.....
.....
.....
.....
.....
.....
.....

I hereby certify that all information provided above and the document attached hereto are true and correct, and I shall comply with the policies and procedures on Type Approval Certification of Radio equipment and any regulation or order relevant to radio communication equipment in Jamaica.

Name (in block capitals).....
Applicant/ Authorized person

Signature

Position

Date/...../.....

All information presented to the SMA will be treated as confidential.

For Spectrum Management Authority use only

Applicant code:
Application Approved:
Date of Approval:
Type Approval ID Number:
Date sent to client:
Payment received:
Signature of Certifying Officer:

Shaping Your Future With Wireless

Appendix 9

**APPLICATION FOR A CERTIFICATE OF COMPETENCE IN
RADIO-TELEPHONY – SECTION II MERCHANT SHIPPING
(WIRELESS TELEGRAPHY) (COSTAL VESSELS) REGULATIONS, 1958**

PLEASE TYPE OR PRINT

1. Particulars
Name of Applicant:
Address:
Telephone: Fax: Email:
Date of Birth: Place of Birth:
Nationality:
2. Personal Description
Profession or Occupation:
Height: Colour of Eyes:
Colour of Hair: Complexion:
Special Peculiarities:
3. Photographs
<p>Two copies of a recent photograph of the applicant must be included with the application. These must be taken full face without hat and must not be mounted. The size must not be more than 2 ½ inches by 2 inches or less than 2 inches by 1 ½ inches. The photograph must be certified by any Resident Magistrate, Justice of the Peace, Minister of Religion, Collector of Taxes, Clerk of the Courts, Police Officer (Gazetted Rank), Bank Manager, Medical Practitioner, Solicitor of the Supreme Court or Barrister-at-Law who is a Commonwealth Citizen, ordinarily resident in Jamaica.</p> <p>The person who certifies the photograph is required to endorse the reverse side of one copy with the words “I certify that this is a true photograph of the applicant (Mr./Mrs./Miss)...” and add his signature.</p> <p>All photographs included with an application become the property of the Postmaster General when it is lodged.</p>
4. Qualifications
Details of Operating Certificate in Radiotelephony or Radiotelegraphy now held by Applicant must be submitted with completed Application.
Applicant's Signature: Date:

Appendix 10

PLEASE TYPE OR PRINT

**THE RADIO TELEGRAPH CONTROL ACT
(Cap. 378)*****Application for Radio Technician's Licence*****Name of Applicant:****Address:****Date of Birth:****Nationality:****Radio Operator's & Other
Certificates Held:****Class of Licence Applied For:** Class A
Please tick appropriate box. Class B**Licence Fee:** \$1,200 - Class A
\$1,000 - Class B (The Licence Fee should be forwarded with Application)**Applicant's Signature:****Date:**

Appendix I I



APPLICATION FOR A LICENCE TO ESTABLISH AN AIRCRAFT
WIRELESS TRANSMITTING STATION

Call Sign
6Y-J.....

PLEASE TYPE OR PRINT

1. Name of Company	Nature of Business	
2. Call Sign (nationality) and Registration marks.	9. Nature of wireless service (insert appropriate indicator SN, CP or CR as decoded below.	
Name of Aircraft (if any).		
3. Make and type of aircraft	10. Aircraft charge per word in centimes of the Gold Franc (normal charge 40 cents). See Note I below.	
4. Customary route (or home Airport)	11. Name and address of Company to which Radiotelegram Accounts must be sent. See Note I below.	
5. Make and type of wireless transmitters or combined transmitter/receiver (including all auxillary transmitters, eg. Radio altimeters, radar).	12. Name and address (Registered Office if a Limited Company) of the Registered owner of the Aircraft.	
6. Maximum power input to aerial (in watts) of each type of transmitter listed under item 5.	13. Name and address of the Company operating the Aircraft (if not operated by the owner).	
7. Transmitting frequencies and types of emission required for use by the Aircraft	See note General (5) on page 2 and insert appropriate indication.	

SN - Communications restricted to messages respecting the safety, operation or navigation of the aircraft.
CP - Paid radiotelegram service to and from the aircraft, and messages respecting the safety, operation or navigation of the aircraft.
CR - Paid radiotelegram service from aircraft to ground only, and messages respecting the safety, operation or navigation of the aircraft.
NOTE 1 - Applicable only when paid radiotelegram service is authorised.

Appendix II

NOTES REGARDING FREQUENCIES AND TYPES OF EMISSION		FREQUENCY BANDS
GENERAL		
1. Transmitting frequencies authorised for use by civil aircraft are normally selected from the frequency bands specified below. Certain other frequencies are also selected from frequency bands above 136 Mc/s, mainly for radio navigation purposes.		1. Frequencies in the Civil Aeronautical Mobile Bands between 2850 and 22000 kc/s.
2. The precise frequencies and types of emission so authorised in respect of the main radio facilities are notified in publication issued by the International Civil Aviation Organisation.		2. Frequencies in the Band 118 to 136 Mc/s.
3. Regarding frequencies in use in other countries, similar information to that outlined above and any relative instructions are usually promulgated by the responsible authorities of those countries. Jamaican registered aircraft may therefore utilise such frequencies, as appropriate, without the prior permission of the Jamaican authorities.		3. Miscellaneous a) 500 kc/s - International Distress and Calling Frequency (telegraphy) b) 2182 kc/s - Int'l Distress and Calling Frequency (radiotelephony) c) 8364 kc/s - Survival Craft Frequencies d) 121.5 Mc/s - Aeronautical Emergency Frequency (World-wide)
4. Operators of Jamaican registered aircraft wishing to use transmitting frequencies not covered by the above arrangements should give full details of their requirements by letter accompanying their application.		4. Public Correspondence Service: 4182 kc/s, 6273 kc/s, 8364 kc/s, 12546 kc/s, 16728 kc/s, 22245 kc/s
5. Types of emission should be referred to by the following symbols: Continuous Wave Telegraphy A1 Interrupted or Modulated Continuous Wave Telegraphy A2 Radiotelephony y A3 Pulse P		
Requirements		
1. The Licence Fee of \$25,000.00 should be forwarded with the application.		The Managing Director Spectrum Management Authority 2 nd Floor, VMBS Building 53 Knutsford Boulevard Kingston 5
2. Processing fee of \$2,500.00 should accompany application.		Application is hereby made for a wireless transmitting licence for the aircraft 6Y-J
3. A letter from the Civil Aviation Authority confirming that the aircraft is legally registered in Jamaica, make & model of aircraft and has been assigned the relevant marking i.e. 6Y-J.....		A separate application has been made to the Civil Aviation Department for inspection of the aircraft, for approval by the Director of Civil Aviation of the aircraft's radio station.
		Name of authorised Company Representative..... Title..... Address..... Nationality..... Signature..... Date.....

Appendix 12

SCHEDULE OF FEES FOR OBTAINING SPECTRUM LICENCES AND CERTIFICATIONS

Adopted from the Radio & Telegraph Control Act - Regulations 1998

CITIZEN BAND RADIO SERVICE

Fee payable	\$600
Annual Renewal	\$600
Substitute Licence	\$100

RADIO OPERATORS AND TECHNICIANS

First Class Radio Telegraph Operator's Certificate	\$800
Second Class Radiotelegraph Operator's Certificate	\$600
Radiotelegraph Operator's Special Certificate	\$500
General Radiotelephone Certificate	
General Operator's Certificate (GMDSS)	\$1,000
Radio communication Operator's Special Certificate (Maritime)	\$700
Restricted radiotelephone Operator's Certificate	\$500
Amateur Radio Operator's Certificate Classes A,B,C	\$500

Radio Technicians Licence	
Class A	\$1,200
Class B	\$1,000

Radiotelegraph Operator's Certificate All classes	\$500
General radiotelephone Operator's Certificate	\$500
Radio communication Operator's Special Certificate (Maritime)	\$500
Restricted Radiotelephone Operator's Certificate	\$500
Amateur Radio Operator's Certificate Classes A,B,C	\$200
Radio Technician's Licence Classes A,B	\$200

SPECTRUM LICENCE

Private Radio Station

Annual fee for transmitter(s) operating single frequency mode above 30 Mhz, but not exceeding 470 Mhz.

i) With mean power up to but not exceeding one watt	\$1,200
ii) With mean power not exceeding 100 watts	\$4,000
iii) With mean power exceeding 100 watts	\$7,500

For two frequency (duplex not exceeding 470 MHz serving single Licensee.

i) with mean power up to but not exceeding 1 watt	\$ 7,500
ii) with mean power up to but not exceeding 100 watts	\$10,000
iii) with mean power exceeding 100 watts	\$15,000

Appendix I2**Radio paging transmitter at a site serving more than one organizations**

\$15,000

Frequency exceeding 470 Mhz, but less than 900 MHz, not including cellular radio and mobile trunking services in the 806-890 MHz band with bandwidth < 25 KHz

i) with mean power up to but not exceeding one watt	\$1,200
ii) with a mean power up to but not exceeding 100 watts.	\$4,000
iii) with a mean power exceeding 100 watts.	\$7,500

Two frequency duplex as above serving single Licensee.

i) with a mean power up to but not exceeding one watt.	\$ 7,500
ii) with a mean power up to but not exceeding 100 watts	\$10,000
iii) with a mean power exceeding 100 watts	\$15,000

For two frequencies serving multiple users in a community service mode

i) with a mean power up to but not exceeding one watt.	\$20,000
ii) with a mean power up to but not exceeding 100 watts.	\$30,000
iii) with a mean power exceeding 100 watts	\$50,000

For transmitters operating point to point microwave links

- with bandwidth not exceeding 1000 kHz	\$100,000
- with bandwidth not exceeding 5000 kHz	\$200,000
- with bandwidth not exceeding 10,000 kHz	\$500,000
- with bandwidth not exceeding 15,000 kHz	\$700,000
- with bandwidth not exceeding 20,000 kHz	\$850,000
- with bandwidth not exceeding 25,000 kHz	\$1,000,000
- with bandwidth not exceeding 30,000 kHz	\$1,200,000
- with bandwidth not exceeding 35,000 kHz	\$1,400,000
- with bandwidth not exceeding 45,000 kHz	\$1,600,000
- with bandwidth not exceeding 55,000 kHz	\$1,800,000
- with bandwidth exceeding 55,000 kHz	\$2,000,000

OTHER SERVICES

- Non-commercial broadcast	\$30,000
- Aeronautical Mobile (Aircraft) Station	\$25,000
- Aeronautical Ground Station	\$10,000
- Aeronautical Special Ground Station	\$1,000,000
- Private Satellite Earth Station	\$1,000,000
- VSAT	\$500,000
- Short-term VSAT (3 months)	\$65,000
- Maritime Mobile (4 years)	US\$280
- Short-term Maritime Mobile (3 months)	US\$70

Appendix I2**PROCESSING FEES FOR SPECTRUM LICENCES AND CERTIFICATIONS**

Processing fees are to be charged in relation to each spectrum application as follows:

Private Radio Station

1 relay	-\$ 2,000.00
2-3 relays	-\$ 5,000.00
4 and over relays	-\$10,000.00
VSAT/ Earth Station	-\$25,000.00
Aeronautical	-\$ 2,500.00
Alien Permits	- US\$10.00

Processing fees are also charged for each non-spectrum application as follows:

Type Approval Certification	- US\$250.00
Ship Station Survey & Certification	-US\$150.00/hr
Ship Station Inspection	- \$2,000.00
Customs Clearance Authorization	
Detention Notice	- \$1,000.00
Entry C-78	- \$2,000.00

Processing fees are non-refundable.

Processing fees are not applicable for renewals unless an amendment has been made to the service, in which case, it is treated as a new application.

Exceptions

Amateur Radio Operators

Maritime Mobile Operators

Citizens Band Radio Operators

All Security and Emergency Services

All accredited tertiary institutions.

Appendix 12**REGULATORY FEES**

Regulatory fees are calculated on an annual basis in order to cover the reasonable operating costs incurred by the Authority in relation to spectrum licences.

Regulatory fees are charged to existing licensees as follows:

Group 1 – These are holders of spectrum licences only, and would include Private Radio Stations. These individuals/companies will pay 35 per cent of spectrum licence fees.

Group 2 relates to holder of Carrier and/or Service Provider licences, and is further broken down into two categories.

Level 1 – All cellular companies - a proportion of the annual budget as determined by formula set out in The Telecommunications Act (Spectrum Regulatory Fees) Regulations 2003, Gazette No.33.

Group 2, Level 11 – All VSAT users and Commercial Data Service Providers will pay 70 per cent of spectrum licence fees.

Exemptions

The following spectrum users are exempt from paying annual Regulatory fees:

Jamaica Constabulary Force

Jamaica Defense Force

Jamaica Fire Brigade

ODPEM

Red Cross

All Accredited Tertiary institutions

All Amateur Radio Operators

All Citizens Band Radio Operators

Regulatory fees for new licences issued during the year and temporary licences are charged on a pro-rata basis for the year.

All existing licensees who require new spectrum during the year are required to pay Regulatory fees in relation to the additional spectrum on a pro-rata basis.

Appendix I2

For further information on spectrum licence fees and regulatory fees, please see the following documents:

- The Radio and Telegraph Control Act, Regulations 1998, (www.sma.gov.jm)
- The Telecommunications Act 2000 (www.sma.gov.jm)
- Financing the SMA, A Consultative document (www.sma.gov.jm)
- The Telecommunications Act (Spectrum Regulatory Fees) Regulations 2003, Gazette No. 33