



## Public Utilities Commission

**Note for the guidance of Applicants for a Spectrum Authorization under the (Licensing Classification, Authorization and Fee Structure) Regulations, 2002 as amended from time to time.**

1. Unless the Commission states otherwise, two **copies (one clearly marked CONFIDENTIAL INFORMATION which will be for PUC use only and one excluding confidential information for public scrutiny)** of the completed application form should be provided in addition to a completed soft copy submission to [telecom@puc.bz](mailto:telecom@puc.bz). The application forms should be submitted in an envelope clearly marked "Application for Spectrum Authorization" addressed to:

The Public Utilities Commission  
2<sup>nd</sup> Floor, Marina Towers  
P.O. Box 300  
Belize City, Belize  
Central America

2. If any question is considered not applicable, please mark 'N/A' with further explanation if necessary.
3. The application fee for the License, and where appropriate, for the necessary Spectrum Authorization, must accompany an application in the form of a cheque made payable to the Public Utilities Commission in accordance with the Telecommunication (Licensing Classification, Authorization and Fee Structure) Regulations 2002 as amended from time to time.
4. Please note that the applicant is required to publish a notice of this application within 14 days after the making of the application in accordance with the Telecommunication (Licensing Classification, Authorization and Fee Structure) Regulation 2002 as amended from time to time.
5. Failure to comply with any of these requirements may render the application liable to disqualification without refund of the application fee(s).

**APPLICATION FOR SPECTRUM AUTHORIZATION**

**1. PART I – THE APPLICANT**

(Please complete fully in type or block letters)

**1.1 Contact Details**

1.1.1 Name and business address of applicant

**Speednet Communications Ltd.  
2 ½ Miles Northern Highway Belize City, Belize**

1.1.2 Designated contact person **David Gibson**

1.1.3 Telephone Number **670 5585**

1.1.4 Fax Number **223 1919**

1.1.5 E-mail address (if available) **dgibson@speednet-wireless.com**

**1.2 Business Details**

1.2.1 If the applicant is a company, partnership, or other body please give the name(s) and private address (es) of each of the current directors, company secretary, or partners:

**Not Applicable**

1.2.2 Name under which applicant proposes to trade, and registered office address if different to above:

**Not Applicable**

\_\_\_\_\_  
\_\_\_\_\_

1.2.3 In the case of a company or other body corporate, please attach a copy of the company's Registration Certificate.

*Certificate included along with this application*

1.2.4 Address in Belize for service of process or other notices (in case of overseas applicant)

**Not Applicable**

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**1.3 History of the Applicant**

1.3.1 Has the applicant ever applied for a Frequency Authorization or registration under any Act in Belize and been refused?

(YES)                      (NO)  
**NO**

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1.3.2 Has the applicant ever been issued a Frequency Authorization under the Telecommunications Act 2002?

(YES)                      (NO)  
**YES**

1.3.3 If the answer to question 1.3.2 is YES, has any such Frequency Authorization been revoked?

(YES)                      (NO)  
**NO**

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1.3.4 Has any Affiliate of the applicant previously been granted a Frequency Authorization under the Telecommunications Act 2002, which was revoked?

(YES) (NO)

**NO**

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1.3.5 Is the applicant the holder of a frequency authorization in any other country? If yes, please specify the country.

(YES) (NO)

**NO**

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1.3.6 Has the applicant or any Affiliate been refused a frequency authorization mentioned in question 1.3.5 above, or had a frequency authorization revoked?

(YES) (NO)

**NO**

1.3.7 Has the applicant operated under or carried on business under any name other than in this application?

(If yes please attached company details)

(YES) (NO)

**NO**

2. **PART II- THE APPLICANT'S BUSINESS AND THE PROPOSED NETWORK AND/OR SERVICE(S)**

2.1 **The Applicant**

2.1.1 Please provide a diagrammatic representation of the applicant's group structure, including the percentage of shares held. Please indicate which affiliates have, or intend to apply for, other telecommunications licenses or frequency authorizations.

2.1.2 Does the applicant have any shareholdings in any other licensed telecommunications provider or frequency authorization holder in the Belize or elsewhere?

YES) (NO)

**NO**

2.1.3 Has any member of the applicant's managerial staff been bankrupt, or been a director of a company which has been insolvent?

(YES) (NO)

**NO**

If the answer is YES, please attach a certified copy of the discharge.

- 2.1.4 Has the applicant or any member of the applicant's managerial staff ever been the defendant or respondent in any proceedings in any court in any jurisdiction involving dishonesty, fraud, theft or violence, or is the applicant or any member of the applicant's managerial staff currently the subject of a charge or indictment under the law of any country for (contravention of any law or for) any conduct involving dishonesty, fraud, theft or violence?

(YES)                      (NO)  
**NO**

## 2.2 Applicant's Current Activities

Please provide answers to the following questions in relation to (a) the applicant's activities in Belize; (b) the applicant's activities elsewhere in the Caribbean; and (c) the applicant's activities elsewhere in the world.

### **Networks**

- 2.2.1 Please provide a summary of any radio-based infrastructure, which the applicant currently has in place.

*A Huawei supplied CDMA wireless network comprising a soft switch, one BSC, one packet data node, AAA platform, system management and 68 base stations that is providing Voice, SMS and EVDO Rev A services.*

*A ZTE supplied LTE wireless network comprising a EPC core, one RAN, system management and 80 base stations that is providing 4G Data services*

*A ZTE supplied UMTS wireless network comprising a core network, one RNC, system management and 95 base stations that is providing Voice, SMS and 3G Data services*

***Multiple microwave PTP licensed spectrum radio backhauls countrywide as listed in 2.2.2 below***

***A Cambium and Mimosa supplied FWA network operating in the RPUS band to provide Broadband services countrywide***

2.2.2 If the applicant is using radio frequency spectrum, please provide details of any frequency authorizations held, including the number of frequency authorizations and the reference number of each frequency authorization.

***CDMA Carriers 283, 241, 199, approved on 16<sup>th</sup> September 2004.***

***CDMA Carrier 157 approved on 15<sup>th</sup> April 2010.***

***Point to Point 7 GHz Radio Links approved 2<sup>nd</sup> August 2010 Ref PUC/TELECOM/DT/S25 (05) 2010***

***Point to Point 7 GHz Radio Links approved 4<sup>th</sup> June 2012 Ref PUC/TELECOM/DT/S25 (01) 2012***

***Point to Point 7 GHz Radio Links approved 12<sup>th</sup> October 2012 Ref PUC/TELECOM/DT/S25 (02) 2012***

***LTE Carrier approved 29<sup>th</sup> July 2013***

***Point to Point 7 GHz Radio Link approved 30<sup>th</sup> October 2013 Ref PUC/TELECOM/DT/S25 (02) 2013***

***Point to Point 7 GHz Radio Links approved 30<sup>th</sup> December 2013 Ref PUC/TELECOM/DT/S25 (03) 2013***

***Point to Point 7 GHz Radio Links approved 6<sup>th</sup> July 2015 Ref PUC/TELECOM/DT/S25 (01) 2015***

***UMTS Carrier approved 17<sup>th</sup> February 2016***

***Point to Point 7 GHz Radio Links approved 2<sup>nd</sup> October 2017 Ref PUC/TELECOM/DT/S25 (01) 2017***

***Point to Point 7 GHz Radio Links approved 7<sup>th</sup> May 2019 Ref PUC/TELECOM/DT/S25 (04) 2019***

***Point to Point 7 GHz Radio Links approved 5<sup>th</sup> August 2019 Ref PUC/TELECOM/DT/S25 (008) 2019***

***Point to Point 7 GHz Radio Links approved 7<sup>th</sup> October 2019 Ref PUC/TELECOM/DT/S25 (010) 2019***

***Point to Point 7 GHz Radio Links approved 26<sup>th</sup> March 2020 Ref PUC/TELECOM/DT/S25 (005) 2020***

***Point to Point 7 GHz Radio Links approved 19<sup>th</sup> December 2022 Ref PUC/TELECOM/DT/S25 (009) 2022***

***Point to Point 7 GHz Radio Links approved 26<sup>th</sup> September 2023 Ref PUC/TELECOM/DT/S25 (018) 2023***

## Services

2.2.3 Please provide details of the services currently being provided by the applicant through its existing radio-based infrastructure.

***Voice postpaid and prepaid (national and international), SMS, Voicemail, mobile Internet, inbound international roaming, dedicated internet, private lines and wireless broadband Internet***

## Obligations

2.2.4 Please provide details of how the applicant currently complies with any other emissions of



electromagnetic radiation from equipment of any description.

- ***Adherence to Manufacturer's recommended and documented scheduled preventative maintenance activities inclusive of:***
  - ***Antenna and Line System Sweeps***
  - ***Antenna azimuth and tilt field verifications***

### 2.3 Applicant's Proposed Activities

#### Radiocommunication Station

2.3.1 Is the frequency authorization for which the applicant is applying to be used in relation to a satellite earth station?

(YES)                      (NO)

**NO**

2.3.2 If the answer to question 2.3.1 is YES, please provide the following information: (Not Applicable)

(a) A letter from the satellite provider, indicating its contact person and any assigned frequencies for the proposed service and the station to be communicated with.

(b) A copy of the manufacturer's technical specification for the transmitter, receiver and antenna.

(c) The following information in respect of the satellite earth station receiving characteristics:

- (i) Make and model
  - (ii) Assigned frequencies
  - (downlink) (iii) Assigned frequency band
  - (iv) Date of bringing into use
  - (v) Location of station, including country and geographic coordinates
  - (vi) Class of emission
  - (vii) Antenna size, antenna gain and receive G/T
  - (viii) Horizontal elevation angle and min/max elevation angle
  - (ix) Azimuth
  - (x) Altitude
  - (xi) Polarization
  - (xii) Receive noise temperature
  - (xiii) Regular hours of operation
  - (xiv) Maintenance of system
- (d) The following information in respect of the satellite earth station transmitting characteristics:
- (i) Make and model

- (ii) Assigned frequencies
- (uplink) (iii) Assigned frequency band
- (iv) Proposed date of bringing into use
- (v) Transmitter power, including saturated transmitter power and maximum radiated power
- (vi) Antenna gain
- (vii) Polarization
- (viii) Modulation (including FDM-FM, PCM/PSK, TV, and other)
- (ix) Regular hours of operation
- (x) Agreements with satellite provider
- (xi) Operating satellite
- (xii) Name of receiving earth station
- (xiii) Location of receiving earth station.

2.3.3 Please provide a summary of the radio-based infrastructure that the applicant is planning to put in place within the next (three) years. In particular, please provide details of the proposed Radiocommunication Station, including:

**Purpose of application (what is being applied for?)**

**Speednet Communications Ltd is seeking spectrum for the**

**deployment of a radio-based infrastructure in FY 2024/25 with a focus on 5G technology within the frequency range of 3.310 to 3.390 GHz. The purpose of this application is to secure the spectrum for use on both Fixed Wireless and Mobile deployments. 5G Fixed Wireless planned for deployment in Q2 of FY 2024/25 and Mobile 5G planned for Q4 2024/25.**

**This tailored allocation between 3.310 to 3.390 GHz, centered at 3.350 GHz, is crucial for enabling the deployment of both 5G FWA and 5G Mobile services.**

**In the case of 5G Mobile, the proposed Radio Access Network (RAN) by Speednet aims to establish a robust and high-speed communication network utilizing the frequency band being applied for hereto.**

**The RAN will integrate advanced radio equipment, antennas, and other necessary components to ensure efficient spectrum utilization and optimal coverage within the specified frequency range. These services promise enhanced connectivity, faster data transfer rates, and versatile support for devices in both fixed and mobile scenarios.**

**On the Fixed Wireless side of the business, the spectrum will be used to provide high-speed internet services to urban locations, serving as an alternative to fiber optics high speed broadband connectivity.**

**This strategic move positions Speednet at the forefront of 5G technology adoption, promising improved connectivity and data transfer capabilities for both fixed and mobile communication services.**

## Target Cell Sites for 5G Mobile Deployment

(a) Geographical location (GPS Coordinates and Coverage Map )

#	Site Name	Location	Coordinates
1	Regent St.	Belize City	17°29'33.32"N 88°11'13.74"W
2	Bennys	Belize City	17°30'31.45"N 88°12'55.78"W
3	Racoon St.	Belize City	17°29'38.43"N 88°12'13.10"W
4	Belize Friends School	Belize City	17°29'0.23"N 88°12'2.34"W
5	Renaissance Bldg	Belize City	17°30'21.74"N 88°11'22.77"W
6	Gabourel Ln	Belize City	17°29'48.86"N 88°11'1.62"W
7	West Landivar	Belize City	17°30'51.51"N 88°12'14.21"W
8	Matalon	Belize City	17°30'30.65"N 88°12'17.11"W
9	Usher Bldg	Belize City	17°30'3.30"N 88°11'45.89"W
10	Palm Grove	Belize City	17°31'47.76"N 88°14'23.29"W
11	Warrie St.	Belize City	17°29'27.58"N 88°11'42.40"W
12	Belize Dry Cleaners	Belize City	17°29'38.64"N 88°11'40.05"W
13	Kings Park	Belize City	17°30'28.28"N 88°11'47.43"W
14	Marion Jones Stadium	Belize City	17°30'48.68"N 88°11'47.43"W
15	Print Belize	Belmopan	17°15'5.67"N 88°46'37.52"W
16	Tiger Town	Belmopan	17°13'40.49"N 88°46'12.78"W
17	More FM	Belmopan	17°15'15.77"N 88°45'43.76"W
18	Maya Mopan	Belmopan	17°14'40.26"N 88°45'1.02"W
19	San Pedro North	San Pedro	18° 0'27.87"N 87°54'46.96"W
20	San Pedro Village Creek	San Pedro	17°56'8.63"N 87°57'14.13"W
21	San Pedro Reef Radio	San Pedro	17°55'12.66"N 87°57'43.26"W
22	San Pedro Hurricane St.	San Pedro	17°54'42.88"N 87°58'12.86"W

23	San Pedro DFC	San Pedro	17°54'21.65"N 87°58'48.14"W
24	San Pedro South	San Pedro	17°53'28.40"N 87°58'53.60"W
25	Caye Caulker	Caye Caulker	17°44'36.17"N 88° 1'34.62"W
26	Caye Caulker 2	Caye Caulker	17°44'16.37"N 88° 1'48.51"W
27	Independence	Independence	16°32'11.95"N 88°24'37.55"W
28	Placencia	Placencia	16°30'53.75"N 88°22'8.25"W
29	Turtle Inn	Placencia	16°31'50.91"N 88°21'41.66"W
30	Dangriga	Dangriga Town	16°57'39.69"N 88°13'43.25"W
31	Dangriga Rooftop	Dangriga Town	16°58'13.45"N 88°13'20.44"W
32	OW Centaur	Orange Walk Town	18° 5'36.04"N 88°33'55.36"W
33	Centaur Rooftop	Orange Walk Town	18° 4'44.20"N 88°33'40.48"W
34	Palmar	Orange Walk Town	18° 3'40.17"N 88°34'7.24"W
35	OW San Francisco St.	Orange Walk Town	18° 5'6.04"N 88°33'44.84"W
36	OW Louisiana	Orange Walk Town	18° 4'17.18"N 88°33'57.54"W
37	Corozal Town	Corozal Town	18°23'57.05"N 88°23'37.03"W
38	Corozal Rooftop	Corozal Town	18°23'26.14"N 88°23'11.94"W
39	San Ignacio	San Ignacio Town	17° 8'50.93"N 89° 4'30.37"W
40	Bedran	San Ignacio Town	17° 9'22.76"N 89° 4'11.20"W
41	San Ignacio North	San Ignacio Town	17° 9'26.46"N 89° 4'39.31"W
42	Hode's	San Ignacio Town	17° 9'47.18"N 89° 4'12.97"W
43	Santa Elena	Santa Elena Town	17° 9'25.26"N 89° 2'52.98"W
44	Benque Viejo	Benque Viejo	17° 4'49.74"N 89° 7'50.82"W
45	Western Border	Benque Viejo	17° 3'27.88"N 89° 8'57.44"W
46	PG VOA	Punta Gorda Town	16° 5'25.60"N 88°48'45.46"W
47	PG North	Punta Gorda Town	16° 6'7.69"N 88°48'12.79"W

48	Ladyville	Ladyville	17°33'10.27"N 88°17'54.71"W
49	PGIA	Ladyville	17°32'7.42"N 88°18'29.75"W

- (b) Type of equipment and system (including manufacturer, model number, FCC Certificate & Current/Valid Type Approval).

Brand and Model of radio unit.

**Note: Applicant must include in soft copy the Vendor provided Technical Description Documentation of the equipment and system.**

- (c) Radio frequency and direction of frequency (whether link applied for is uni-directional or bi-directional, and relevant transmission details?)

*Note: Request for Point-to-Point authorizations must conform to the 2020 Order: Belize Radio Frequency Channelization for Point-to-Point links.*  
<https://www.puc.bz/2020-belize-radio-frequency-channelization-for-point-to-point-links/>

**For the AAU, the Operating frequency band is**  
**3.300-3.520 GHz**  
**The Operational Bandwidth is 220MHz.**

**The Filter Passband is 3.300-3.520 GHz,  
Instantaneous Bandwidth (IBW):220MHz  
Maximum Occupied Bandwidth(OBW):140MHz  
X-POL**

**NR,**

(1TNR:100+1TNR:40)(UNI-V5.35.30.10)

(1TNR:80+1TNR:20)(UNI-V5.45.20.20P30)

*Applicant is required to identify the Lower and Upper edge frequencies applicable to requested range, transmitter location name and coordinates.*

**Lower Edge: 3.310 GHz**

**Center: 3.350 GHz**

**Upper Edge:3.390 GHz**

- (d) Transmission power level

**The Transmit power is 280W.**

- (e) Preferred polarization of emissions  
(i.e. vertical, horizontal, co-channel  
dual polar)

**See (h)**

- (f) Preferred equipment carrier frequency  
range for channel assignment  
Equipment tuning range: lower frequency  
to upper frequency

**Equipment can operate within the following range:  
Operating frequency band is 3.300-3.520 GHz.**



- (g) Is system intended to be duplicated? (If Yes, please Specify)

**Same as (a)**

- (h) Type of antenna, including details of antenna height

**Note: Applicant must include in soft copy the Vendor provided Technical Specifications for the proposed antenna(s)**

- (i) Station ID (if applicable)

*Not Applicable*

- (j) Address of location from where equipment is to be operated (if different from Radiocommunication Station's location).

**Same as (a)**

- (k) Radio frequency feeder loss and hot-standby loss, rounded up to nearest dB. Any radio frequency feeder loss over 10 dB or hot-standby loss over 4 dB must be justified.

*Not Applicable*

- (l) Guaranteed maximum boresight gain relative to an isotropic radiator for any antenna specified rounded up to nearest dB.

*Not Applicable*

- (m) Path profile for the proposed point-to-point link(s).

*Not Applicable*

(n) Throughput capacity for the proposed link(s).

**The DL throughput capacity is about 2.696 Gbps,  
UL is 332 Mbps.**

**Target Locations for 5G Fixed Wireless**

(b) Geographical location (GPS Coordinates and Coverage Map )

#	Site Name	Location	Coordinates
1	Regent St.	Belize City	17°29'33.32"N 88°11'13.74"W
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Brand and Model of radio unit.

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- (c) Radio frequency and direction of frequency (whether link applied for is uni-directional or bi-directional, and relevant transmission details?)

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**NR**,

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(1TNR:80+1TNR:20)(UNI-V5.45.20.20P30)

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(e) Preferred polarization of emissions  
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**See (h)**

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Equipment tuning range: lower frequency to upper frequency

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**Same as (a)**

- (h) Type of antenna, including details of antenna height

**Note: Applicant must include in soft copy the Vendor provided Technical Specifications for the proposed antenna(s)**

- (ii) Station ID (if applicable)

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- (j) Address of location from where equipment is to be operated (if different from Radiocommunication Station's location).

**Same as (a)**

- (k) Radio frequency feeder loss and hot-standby loss, rounded up to nearest dB. Any radio frequency feeder loss over 10 dB or hot-standby loss over 4 dB must be justified.

***Not Applicable***

- (l) Guaranteed maximum boresight gain relative to an isotropic radiator for any antenna specified rounded up to nearest dB.

*Not Applicable*

- (m) Path profile for the proposed point-to-point link(s).

*Not Applicable*

- (n) Throughput capacity for the proposed link(s).

**The DL throughput capacity is about 2.696 Gbps, UL is 332 Mbps.**

## Services

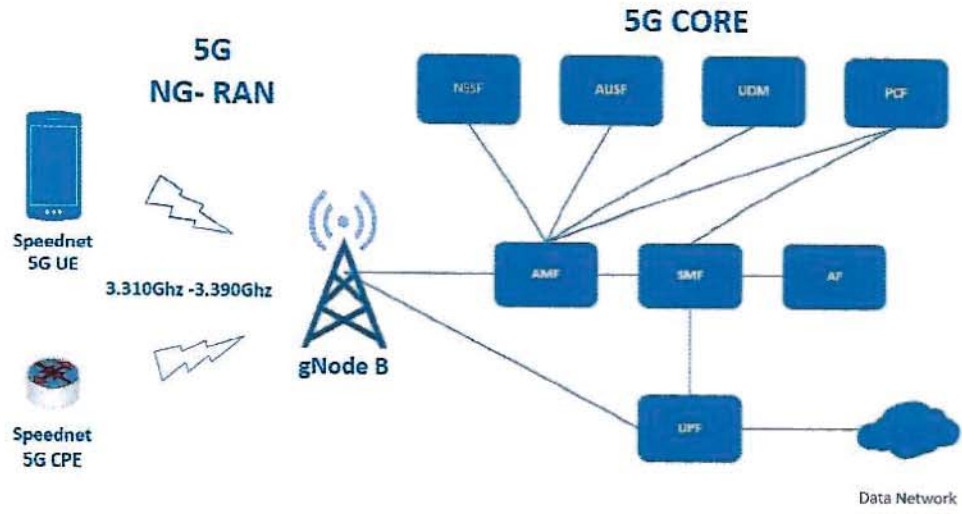
### 2.3.4

Please provide a description of the service, which the applicant proposes to provide using the frequency band for which it is applying. (Including an Architectural Diagram).

*The 5G mobile network will deliver the full scope of the Company's mobile services , including postpaid and prepaid, SMS and high-speed mobile data.*

*The 5G FWA network will deliver home broadband services at very high speeds targeted at corporate and residential clients.*

### **5G Mobile & FWA Architecture**





## Obligations

- 2.3.5 Please provide details of how the applicant proposes to comply with the obligations in the frequency authorization (and in the Frequency Authorization Regulations) in respect of harmful interference, and any other technical regulations in respect of emissions of electromagnetic radiation from equipment of any description.

***The Frequency assignments being applied for are based on the national spectrum plan. Speednet as a Licensed operator will operate the spectrum to comply with the Telecommunications (Licensing Classification, Authorization and Fee Structure) Regulations and its Amendment No. 2 of 2022.***

***Compliance with equipment technical specifications and PUC mandated requirements will drastically reduce harmful interference to other systems operating in the same or adjacent bands.***

PART III

**DECLARATION BY THE APPLICANT**

Application is hereby made on behalf of Speednet Communications Ltd.  
(Name of individual or company) for the issue of a Authorization to  
install, hold and use wireless sending and receiving apparatus – as  
detailed above – for the purposes stated.

In accordance with the Belize Telecommunications Act, 2002 and any  
other Regulations thereunder, I accept responsibility for the  
installation, maintenance and operation of the system if approved.

I confirm that no change will be made in any of the foregoing without  
prior approval of The Public Utilities Commission.

Signature of applicant: D. Gibson

Name in Block Letters: DAVID GIBSON

Date: March 14<sup>th</sup>, 2024

THE APPLICANT/LICENSEE SHOULD BE AWARE THAT HE/SHE IS  
RESPONSIBLE IN LAW FOR THE RADIO SYSTEM AND ITS  
OPERATION REGARDLESS OF WHO SUPPLIES THE EQUIPMENT OR  
WHO OPERATES IT ON HIS/HER BEHALF

The completed Application Form and the appropriate fee should be  
submitted to: Office of the Chairman of Public Utilities Commission, P.  
O. Box 300, Belize City, Belize.