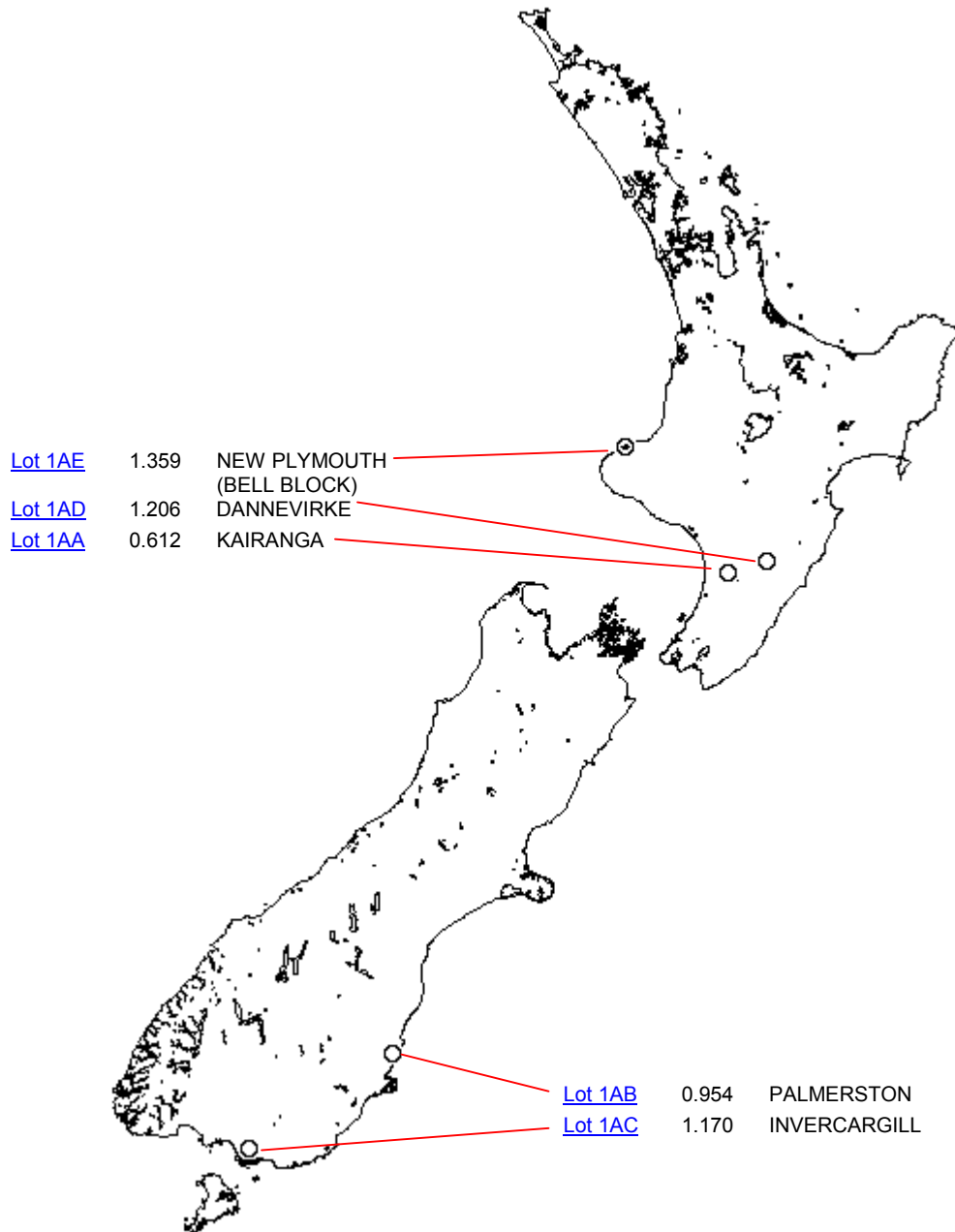


Schedule 1 - AM Broadcast

Lot Number	Location	Frequency (MHz)
1AA	Kairanga	0.612
1AB	Palmerston	0.954
1AC	Invercargill	1.170
1AD	Dannevirke	1.206
1AE	New Plymouth (Bell Block)	1.359

Schedule 1 - AM Broadcast



[Return to Map](#)**SCHEDULE**

Details of spectrum licence:

1. The commencement date of this licence is: 1 January 2004
2. The expiry date of this licence is: 2 April 2011
3. The frequencies that apply to this licence are as follows:
 - (a) the characteristic frequency is: 0.612000 MHz
 - (b) the frequency band is: 0.602000 MHz to 0.622000 MHz
4. Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of those emissions):
 - (a) Limits applying to frequencies below the lower boundary frequency:

-50.0 dBW at 0.414000 MHz	to	-43.0 dBW at 0.456000 MHz
-43.0 dBW at 0.456000 MHz	to	-43.0 dBW at 0.537000 MHz
-43.0 dBW at 0.537000 MHz	to	-28.0 dBW at 0.572000 MHz
-28.0 dBW at 0.572000 MHz	to	-10.0 dBW at 0.598000 MHz
-10.0 dBW at 0.598000 MHz	to	35.0 dBW at 0.602000 MHz
 - (b) Limits applying to frequencies above the upper boundary frequency:

35.0 dBW at 0.622000 MHz	to	-10.0 dBW at 0.626000 MHz
-10.0 dBW at 0.626000 MHz	to	-28.0 dBW at 0.652000 MHz
-28.0 dBW at 0.652000 MHz	to	-43.0 dBW at 0.687000 MHz
-43.0 dBW at 0.687000 MHz	to	-43.0 dBW at 1.677000 MHz
-43.0 dBW at 1.677000 MHz	to	-50.0 dBW at 1.719000 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range must be determined in accordance with the following formula: $y = mx + C$

where $y = \text{dBW}$, $x = \text{MHz}$, $m = dy/dx$ $C = \text{the value of } y \text{ where } x = 0 \text{ (the } y \text{ intercept).]$

5. The maximum power, designation of emissions, and horizontal radiation pattern permitted under this licence are as follows:
 - (a) maximum power of emissions: 35.0 dBW eirp
 - (b) designation of emissions: 20K0A3EGN
 - (c) horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]:

000.0 degrees up to 360.0 degrees: 35.0 dBW
6. The location of the transmitter, the antenna polarisation, and the antenna height are as follows:
 - (a) the location of the transmitter:

Map	Easting	Northing	Altitude	Site Name
NZMS260 S24	284.00	929.00	20 m	KAIRANGA
 - (b) the antenna polarisation is: Vertical
 - (c) the antenna height is: 53.0 metres above ground level

7. The protection location or locations or protection area that apply under this licence are described as follows:

(a),(b) the protected location or locations or protection area and the maximum permitted interfering signal that apply to those location(s) are:

Map	Easting	Northing	Site Name	Maximum Permitted Interfering Signals
NZMS260 T24	340.00	996.00	BUNNYTHORPE SCHOOL RCL	47 dBµV/m
NZMS260 S24	270.00	880.00	WALKERS ROAD RCL	47 dBµV/m

8. The authorities that apply to this licence are as follows:
- (a) this licence may be transferred by the RightHolder acting alone.
 - (b) this licence may be cancelled by the RightHolder acting alone.
 - (c) this licence may be modified by agreement between the Manager and the RightHolder.
9. The conditions applying to the exercise of the rightholder's rights under this licence are:

The rightholder shall not transfer the rightholder's interest in this licence to any foreign government, or to any party on behalf of any foreign government, without first obtaining the written approval of the Chief Executive of the Ministry of Economic Development.

Maximum permitted interfering signals shall be measured at a height of 2 metres above ground level.

This licence right is constrained by and subject to international agreements on medium frequency (MF) broadcasting, in particular the Final Acts of the Regional Agreement on LF/MF Broadcasting, Geneva 1975, including any revision, amendment or agreement in substitution for such Final Acts.

The time periods during which broadcasting may occur are continuous.

The Chief Executive or any inspector duly authorised by him shall be granted by the licenceholder at all reasonable times entry to any place, premises or building for the purposes of ensuring compliance with this licence.

During night-time hours, the maximum EIRP will be restricted to 36dBW. The hours defining daytime/night time operation will be in accordance with Chapter 3 (Annex 2) of the Final Acts of the Regional Administrative LF/MF Broadcasting conference (Regions 1 and 3) Geneva, 1975.

[Return to Map](#)**SCHEDULE**

Details of spectrum licence:

1. The commencement date of this licence is: 1 January 2004
 2. The expiry date of this licence is: 2 April 2011
 3. The frequencies that apply to this licence are as follows:
 - (a) the characteristic frequency is: 0.954000 MHz
 - (b) the frequency band is: 0.944000 MHz to 0.964000 MHz
 4. Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of those emissions):
 - (a) Limits applying to frequencies below the lower boundary frequency:

-50.0 dBW at 0.414000 MHz	to	-43.0 dBW at 0.456000 MHz
-43.0 dBW at 0.456000 MHz	to	-43.0 dBW at 0.879000 MHz
-43.0 dBW at 0.879000 MHz	to	-37.0 dBW at 0.914000 MHz
-37.0 dBW at 0.914000 MHz	to	-19.0 dBW at 0.940000 MHz
-19.0 dBW at 0.940000 MHz	to	26.0 dBW at 0.944000 MHz
 - (b) Limits applying to frequencies above the upper boundary frequency:

26.0 dBW at 0.964000 MHz	to	-19.0 dBW at 0.968000 MHz
-19.0 dBW at 0.968000 MHz	to	-37.0 dBW at 0.994000 MHz
-37.0 dBW at 0.994000 MHz	to	-43.0 dBW at 1.029000 MHz
-43.0 dBW at 1.029000 MHz	to	-43.0 dBW at 1.677000 MHz
-43.0 dBW at 1.677000 MHz	to	-50.0 dBW at 1.719000 MHz
- [Note: The unwanted emission limits applicable to frequencies within each specified range must be determined in accordance with the following formula: $y = mx + C$
- where $y = \text{dBW}$, $x = \text{MHz}$, $m = dy/dx$ $C = \text{the value of } y \text{ where } x = 0 \text{ (the } y \text{ intercept).]$
5. The maximum power, designation of emissions, and horizontal radiation pattern permitted under this licence are as follows:
 - (a) maximum power of emissions: 26.0 dBW eirp
 - (b) designation of emissions: 20K0A3EGN
 - (c) horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]:

000.0 degrees up to 360.0 degrees: 26.0 dBW
 6. The location of the transmitter, the antenna polarisation, and the antenna height are as follows:
 - (a) the location of the transmitter:

Map	Easting	Northing	Altitude	Site Name
NZMS260 J43	307.00	236.00	40 m	PALMERSTON

- (b) the antenna polarisation is: Vertical
- (c) the antenna height is: 30.0 metres above ground level

7. The protection location or locations or protection area that apply under this licence are described as follows:

(a),(b) the protected location or locations or protection area and the maximum permitted interfering signal that apply to those location(s) are:

Map	Easting	Northing	Site Name	Maximum Permitted Interfering Signals
NZMS260 J43	309.00	224.00	PALMERSTON RECREATION GROUND RCL	52 dBµV/m

8. The authorities that apply to this licence are as follows:

- (a) this licence may be transferred by the RightHolder acting alone.
- (b) this licence may be cancelled by the RightHolder acting alone.
- (c) this licence may be modified by agreement between the Manager and the RightHolder.

9. The conditions applying to the exercise of the rightholder's rights under this licence are:

The rightholder shall not transfer the rightholder's interest in this licence to any foreign government, or to any party on behalf of any foreign government, without first obtaining the written approval of the Chief Executive of the Ministry of Economic Development.

Maximum permitted interfering signals shall be measured at a height of 2 metres above ground level.

This licence right is constrained by and subject to international agreements on medium frequency (MF) broadcasting, in particular the Final Acts of the Regional Agreement on LF/MF Broadcasting , Geneva 1975, including any revision, amendment or agreement in substitution for such Final Acts.

The time periods during which broadcasting may occur are continuous.

The Chief Executive or any inspector duly authorised by him shall be granted by the licenceholder at all reasonable times entry to any place, premises or building for the purposes of ensuring compliance with this licence.

[Return to Map](#)**SCHEDULE**

Details of spectrum licence:

1. The commencement date of this licence is: 24 July 2003
2. The expiry date of this licence is: 2 April 2011
3. The frequencies that apply to this licence are as follows:
 - (a) the characteristic frequency is: 1.170000 MHz
 - (b) the frequency band is: 1.160000 MHz to 1.180000 MHz
4. Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of those emissions):
 - (a) Limits applying to frequencies below the lower boundary frequency:

-50.0 dBW at 0.414000 MHz	to	-43.0 dBW at 0.456000 MHz
-43.0 dBW at 0.456000 MHz	to	-43.0 dBW at 1.095000 MHz
-43.0 dBW at 1.095000 MHz	to	-28.0 dBW at 1.130000 MHz
-28.0 dBW at 1.130000 MHz	to	-10.0 dBW at 1.156000 MHz
-10.0 dBW at 1.156000 MHz	to	35.0 dBW at 1.160000 MHz
 - (b) Limits applying to frequencies above the upper boundary frequency:

35.0 dBW at 1.180000 MHz	to	-10.0 dBW at 1.184000 MHz
-10.0 dBW at 1.184000 MHz	to	-28.0 dBW at 1.210000 MHz
-28.0 dBW at 1.210000 MHz	to	-43.0 dBW at 1.245000 MHz
-43.0 dBW at 1.245000 MHz	to	-43.0 dBW at 1.677000 MHz
-43.0 dBW at 1.677000 MHz	to	-50.0 dBW at 1.719000 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range must be determined in accordance with the following formula: $y = mx + C$

where $y = \text{dBW}$, $x = \text{MHz}$, $m = dy/dx$ $C = \text{the value of } y \text{ where } x = 0 \text{ (the } y \text{ intercept).]$

5. The maximum power, designation of emissions, and horizontal radiation pattern permitted under this licence are as follows:
 - (a) maximum power of emissions: 35.0 dBW eirp
 - (b) designation of emissions: 20K0A3EGN
 - (c) horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]:

000.0 degrees up to 030.0 degrees:	35.0 dBW
030.0 degrees up to 040.0 degrees:	33.0 dBW
040.0 degrees up to 360.0 degrees:	35.0 dBW
6. The location of the transmitter, the antenna polarisation, and the antenna height are as follows:
 - (a) the location of the transmitter:

Map	Easting	Northing	Altitude	Site Name
NZMS260 E46	623.00	114.00	25 m	INVERCARGILL
 - (b) the antenna polarisation is: Vertical
 - (c) the antenna height is: 67.0 metres above ground level

7. The protection location or locations or protection area that apply under this licence are described as follows:

(a),(b) the protected location or locations or protection area and the maximum permitted interfering signal that apply to those location(s) are:

Map	Easting	Northing	Site Name	Maximum Permitted Interfering Signals
NZMS260 E47	530.00	910.00	BLUFF	47 dB μ V/m
NZMS260 E46	520.00	150.00	INVERCARGILL	47 dB μ V/m

8. The authorities that apply to this licence are as follows:
- (a) this licence may be transferred by the RightHolder acting alone.
 - (b) this licence may be cancelled by the RightHolder acting alone.
 - (c) this licence may be modified by agreement between the Manager and the RightHolder.

9. The conditions applying to the exercise of the rightholder's rights under this licence are:

The rightholder shall not transfer the rightholder's interest in this licence to any foreign government, or to any party on behalf of any foreign government, without first obtaining the written approval of the Chief Executive of the Ministry of Economic Development.

Maximum permitted interfering signals shall be measured at a height of 2 metres above ground level.

This licence right is constrained by and subject to international agreements on medium frequency (MF) broadcasting, in particular the Final Acts of the Regional Agreement on LF/MF Broadcasting, Geneva 1975, including any revision, amendment or agreement in substitution for such Final Acts.

The time periods during which broadcasting may occur are continuous.

The Chief Executive or any inspector duly authorised by him shall be granted by the licenceholder at all reasonable times entry to any place, premises or building for the purposes of ensuring compliance with this licence.

[Return to Map](#)**SCHEDULE**

Details of spectrum licence:

1. The commencement date of this licence is: 11 July 2003
 2. The expiry date of this licence is: 2 April 2011
 3. The frequencies that apply to this licence are as follows:
 - (a) the characteristic frequency is: 1.206000 MHz
 - (b) the frequency band is: 1.196000 MHz to 1.216000 MHz
 4. Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of those emissions):
 - (a) Limits applying to frequencies below the lower boundary frequency:

-50.0 dBW at 0.414000 MHz	to	-43.0 dBW at 0.456000 MHz
-43.0 dBW at 0.456000 MHz	to	-43.0 dBW at 1.131000 MHz
-43.0 dBW at 1.131000 MHz	to	-38.0 dBW at 1.166000 MHz
-38.0 dBW at 1.166000 MHz	to	-20.0 dBW at 1.192000 MHz
-20.0 dBW at 1.192000 MHz	to	25.0 dBW at 1.196000 MHz
 - (b) Limits applying to frequencies above the upper boundary frequency:

25.0 dBW at 1.216000 MHz	to	-20.0 dBW at 1.220000 MHz
-20.0 dBW at 1.220000 MHz	to	-38.0 dBW at 1.246000 MHz
-38.0 dBW at 1.246000 MHz	to	-43.0 dBW at 1.281000 MHz
-43.0 dBW at 1.281000 MHz	to	-43.0 dBW at 1.677000 MHz
-43.0 dBW at 1.677000 MHz	to	-50.0 dBW at 1.719000 MHz
- [Note: The unwanted emission limits applicable to frequencies within each specified range must be determined in accordance with the following formula: $y = mx + C$
- where $y = \text{dBW}$, $x = \text{MHz}$, $m = dy/dx$ $C = \text{the value of } y \text{ where } x = 0 \text{ (the } y \text{ intercept).]$
5. The maximum power, designation of emissions, and horizontal radiation pattern permitted under this licence are as follows:
 - (a) maximum power of emissions: 25.0 dBW eirp
 - (b) designation of emissions: 20K0A3EGN
 - (c) horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]:

000.0 degrees up to 360.0 degrees: 25.0 dBW
 6. The location of the transmitter, the antenna polarisation, and the antenna height are as follows:
 - (a) the location of the transmitter:

Map	Easting	Northing	Altitude	Site Name
NZMS260 U23	740.00	060.00	200 m	DANNEVIRKE

- (b) the antenna polarisation is: Vertical
 (c) the antenna height is: 80.0 metres above ground level

7. The protection location or locations or protection area that apply under this licence are described as follows:

(a),(b) the protected location or locations or protection area and the maximum permitted interfering signal that apply to those location(s) are:

Map	Easting	Northing	Site Name	Maximum Permitted Interfering Signals
NZMS260 U23	791.00	134.00	MATAMAU RCL	53 dB μ V/m
NZMS260 T23	673.00	002.00	ORINGI RCL	53 dB μ V/m

8. The authorities that apply to this licence are as follows:

- (a) this licence may be transferred by the RightHolder acting alone.
 (b) this licence may be cancelled by the RightHolder acting alone.
 (c) this licence may be modified by agreement between the Manager and the RightHolder.

9. The conditions applying to the exercise of the rightholder's rights under this licence are:

The rightholder shall not transfer the rightholder's interest in this licence to any foreign government, or to any party on behalf of any foreign government, without first obtaining the written approval of the Chief Executive of the Ministry of Economic Development.

Maximum permitted interfering signals shall be measured at a height of 2 metres above ground level.

This licence right is constrained by and subject to international agreements on medium frequency (MF) broadcasting, in particular the Final Acts of the Regional Agreement on LF/MF Broadcasting, Geneva 1975, including any revision, amendment or agreement in substitution for such Final Acts.

The time periods during which broadcasting may occur are continuous.

The Chief Executive or any inspector duly authorised by him shall be granted by the licenceholder at all reasonable times entry to any place, premises or building for the purposes of ensuring compliance with this licence.

[Return to Map](#)**SCHEDULE**

Details of spectrum licence:

1. The commencement date of this licence is: 1 January 2004
2. The expiry date of this licence is: 2 April 2011
3. The frequencies that apply to this licence are as follows:
 - (a) the characteristic frequency is: 1.359000 MHz
 - (b) the frequency band is: 1.349000 MHz to 1.369000 MHz
4. Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of those emissions):
 - (a) Limits applying to frequencies below the lower boundary frequency:

-50.0 dBW at 0.414000 MHz	to	-43.0 dBW at 0.456000 MHz
-43.0 dBW at 0.456000 MHz	to	-43.0 dBW at 1.284000 MHz
-43.0 dBW at 1.284000 MHz	to	-31.0 dBW at 1.319000 MHz
-31.0 dBW at 1.319000 MHz	to	-13.0 dBW at 1.345000 MHz
-13.0 dBW at 1.345000 MHz	to	32.0 dBW at 1.349000 MHz
 - (b) Limits applying to frequencies above the upper boundary frequency:

32.0 dBW at 1.369000 MHz	to	-13.0 dBW at 1.373000 MHz
-13.0 dBW at 1.373000 MHz	to	-31.0 dBW at 1.399000 MHz
-31.0 dBW at 1.399000 MHz	to	-43.0 dBW at 1.434000 MHz
-43.0 dBW at 1.434000 MHz	to	-43.0 dBW at 1.677000 MHz
-43.0 dBW at 1.677000 MHz	to	-50.0 dBW at 1.719000 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range must be determined in accordance with the following formula: $y = mx + C$

where $y = \text{dBW}$, $x = \text{MHz}$, $m = dy/dx$ $C = \text{the value of } y \text{ where } x = 0 \text{ (the } y \text{ intercept).]$
5. The maximum power, designation of emissions, and horizontal radiation pattern permitted under this licence are as follows:
 - (a) maximum power of emissions: 32.0 dBW eirp
 - (b) designation of emissions: 20K0A3EGN
 - (c) horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]:

000.0 degrees up to 360.0 degrees: 32.0 dBW
6. The location of the transmitter, the antenna polarisation, and the antenna height are as follows:
 - (a) the location of the transmitter:

Map	Easting	Northing	Altitude	Site Name
NZMS260 P19	081.00	407.00	20 m	BELL BLOCK
 - (b) the antenna polarisation is: Vertical
 - (c) the antenna height is: 53.0 metres above ground level

7. The protection location or locations or protection area that apply under this licence are described as follows:

(a),(b) the protected location or locations or protection area and the maximum permitted interfering signal that apply to those location(s) are:

Map	Easting	Northing	Site Name	Maximum Permitted Interfering Signals
NZMS260 Q19	129.00	271.00	INGLEWOOD SCHOOL	45 dB μ V/m
NZMS260 P19	982.00	341.00	OMATA SCHOOL	45 dB μ V/m
NZMS260 Q19	214.00	448.00	VISITORS CAR PARK MOTUNUI	45 dB μ V/m

8. The authorities that apply to this licence are as follows:
- (a) this licence may be transferred by the RightHolder acting alone.
 - (b) this licence may be cancelled by the RightHolder acting alone.
 - (c) this licence may be modified by agreement between the Manager and the RightHolder.
9. The conditions applying to the exercise of the rightholder's rights under this licence are:

The rightholder shall not transfer the rightholder's interest in this licence to any foreign government, or to any party on behalf of any foreign government, without first obtaining the written approval of the Chief Executive of the Ministry of Economic Development.

Maximum permitted interfering signals shall be measured at a height of 2 metres above ground level.

This licence right is constrained by and subject to international agreements on medium frequency (MF) broadcasting, in particular the Final Acts of the Regional Agreement on LF/MF Broadcasting, Geneva 1975, including any revision, amendment or agreement in substitution for such Final Acts.

The time periods during which broadcasting may occur are continuous.

The Chief Executive or any inspector duly authorised by him shall be granted by the licenceholder at all reasonable times entry to any place, premises or building for the purposes of ensuring compliance with this licence.