



# MINISTRY OF COMMERCE

## RADIO FREQUENCY AUCTION

No. 1

Call for Bids

2 August 1996

ISBN 0 - 478 - 00347 - 1

# MINISTRY OF COMMERCE

## RADIO FREQUENCY AUCTION NUMBER 1

### Call For Bids

I, Hunter Macandrew Donaldson, General Manager Communications, Ministry of Commerce, acting on behalf of the Acting Secretary of Commerce and with her authority, subject to the terms and conditions specified in the First Schedule to this notice, hereby call for bids:

- i for a licence subject to special conditions to be granted pursuant to section 48 of the Radiocommunications Act 1989 in a lot as specified in the Second Schedule to this notice;
  - ii for licences to be granted pursuant to section 48 of the Radiocommunications Act 1989 in lots as specified in the Third Schedule to this notice;
  - iii for licences to be granted pursuant to section 48 of the Radiocommunications Act 1989 in lots as specified in the Fourth Schedule to this notice;
  - iv for licences to be granted pursuant to section 48 of the Radiocommunications Act 1989 as specified in the Fifth Schedule to this notice.
  - v for licences to be granted pursuant to section 48 of the Radiocommunications Act 1989 as specified in the Sixth Schedule to this notice.
- This call is made subject to the provisions of the Radiocommunications Act 1989, together with the Radiocommunications (Fees) Regulations 1993 and the Radiocommunications (Forms) Regulations 1990. Prospective bidders should familiarise themselves thoroughly with the Radiocommunications Act.

Dated at WELLINGTON this 2nd day of August 1996

(signed)

H M Donaldson, General Manager Communications Division

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# FIRST SCHEDULE

## CALL FOR BIDS FOR FREQUENCIES

### TERMS AND CONDITIONS

- 1 The terms and conditions applicable to this auction are as follows:

#### AMENDMENTS TO THIS CALL FOR BIDS

- 2 This call may be amended or revoked by the Secretary of Commerce, in whole or in part, and at any time, by notice in the New Zealand Gazette or by direct contact with registered bidders.

#### APPLICATION OF COMMERCE ACT 1986

- 3 Section 138 of the Radiocommunications Act 1989 provides for the application of the business acquisition provisions of the Commerce Act 1986 to the acquisition of management rights or of licences under the Radiocommunications Act 1989.
- 4 The contract created by the acceptance of a bid will be subject to the condition that none of its provisions relating to the acquisition of the relevant licences will come into force unless -
- a. The proposed acquisition has been given a clearance or an authorisation has been granted in accordance with Part V of the Commerce Act 1986; or
  - b. The Secretary has agreed with the relevant bidder that it is not necessary to seek clearance or authorisation for the proposed acquisition.
- 5 This paragraph shall apply where the Secretary and the bidder have not agreed under paragraph 4(b) of this Schedule that a clearance or authorisation need not be sought. In the event that -
- a. A successful bidder fails to advise the Secretary within 20 working days of being notified of provisional acceptance under paragraph 20 of this Schedule of a bid that either Commerce Commission clearance or authorisation has been sought; or
  - b. Commerce Commission clearance or authorisation was sought, but was declined -

the Secretary reserves the right to dispose of the lot as the Secretary sees fit, which may include re-auctioning the lot concerned, or offering it to the next highest bidder in accordance with paragraph 24 of this Schedule.

- 6 This call is also made subject to any other legal requirements that apply to the acquisition of licences.

#### WHO MAY BID

- 7 Any person or organisation may bid, but is required to register as a registered bidder.

#### REGISTRATION AS A BIDDER

- 8 Individuals or organisations wishing to register as a bidder in this auction must complete form RFA 1, copies of which may be obtained from Maureen Wells, telephone 04 - 474 2627 Wellington. This form must be received by the Auction Manager no later than Friday 16 August 1996. The Auction Manager will advise applicants of their registration and also issue a bidder's registration number. The bidder's registration number will be used to authenticate bids made in this auction. It is the responsibility of each registered bidder to maintain the confidentiality of their bidder's registration number

#### BIDDING RULES

- 9 Bidders will be required to lodge their initial bids with the Ministry by facsimile in accordance with the time schedule provided upon registration.
- 10 The minimum acceptable offer for any lot in the first round of bidding will be \$500 +GST.
- 11 After the close of the first round of bidding, the Ministry will provide (by facsimile) to each registered bidder details of the dollar value of the highest bids received for each lot. Where two or more bidders bid the same amount for a particular lot, the registration numbers for each bidder will be disclosed. Bidders will then be able to increase their bids if they so wish, and must do so by fax, again within a specified time frame as advised by the Auction Manager. This may be at a later time on the same day, or on the morning of the following business day.
- 12 The bidding process may be continued through further rounds, until no further bids are received for the lots concerned. In such rounds, bids for any lot may be subject to a minimum incremental increase over the highest bid(s) received for that lot in the previous round. Bidders should note that as the auction progresses, the Auction Manager may reduce the duration of bidding rounds and/or the time interval between such rounds. The Auction Manager may also set minimum bid increments for any given lot/s in any given round/s of bidding. This action will be taken as deemed necessary by the Auction Manager to maintain the efficient progress of the auction. Notification of any such changes will be given to registered bidders at the same time results of the previous round are advised.

- 13 All "highest current bids" in respect of any given lot will remain valid until such time as a winner is declared.

#### HOW TO BID

- 14 All bids must be made using the bid form prescribed ( Form RFA 2 ). Copies of this form will be provided to all registered bidders prior to commencement of the auction.
- 15 The bid form must be signed.
- 16 The bid form should be completed in accordance with the directions on the bid form. It is the responsibility of the bidder to ensure that information provided on the bid form is complete in all respects and is legible. Throughout the bidding process for each lot, all bids must clearly state the lot reference and the sum bid (exclusive of GST), together with the bidder's registration number which will be allocated to bidders prior to commencement of the first bidding round. The bidders registration number is required to ensure that bids received by the Ministry are from individuals or organisations registered as bidders as well as ensuring privacy of their bids when the "highest current bids" are made public at the end of each round of bidding during the auction.
- 17 Bids must be made by means of facsimile to the facsimile number shown on bid form RFA 2.
- 18 All bids shall be in whole New Zealand dollars (exclusive of GST).

#### DETERMINATION OF RESULTS

- 19 The following procedure will determine the results of this auction:
- a. In respect of each lot, bids will be ranked in order of amount bid ;
  - b. Subject to paragraph 20 of this Schedule, the provisional winner for each lot will be identified as the bidder who has bid the highest amount for that lot.
- 20 The Secretary reserves the right not to complete the transaction following receipt of final bids. If the Secretary decides to complete the transaction, the highest valid bid received for each lot will then be provisionally accepted, and the winning bidders advised. A contractual obligation to buy (on the part of the bidders) and to sell (on the part of the Crown) will exist from that point in time. The successful bidders will then be required to make payment of the sum bid, plus GST, in accordance with paragraph 25 of this schedule.
- 21 At the conclusion of the process, all parties who have lodged bids with the Ministry will be advised of all results.

## PAYMENTS IN SETTLEMENT

- 22 The amount required in settlement in respect of each lot will be the amount bid for that lot plus Goods and Services Tax (GST).
- 23 Failure by the successful bidder to complete the transaction will be subject to a penalty payment. The amount of the penalty will be the difference between the amount bid and the amount eventually paid by another bidder (if that amount is lower than the original amount), plus administrative costs incurred by the Ministry in having to re-offer the lot(s) concerned.
- 24 In the event of the failure of the successful bidder to provide payment in settlement in relation to a lot as required above, the Secretary may dispose of the lot as seen fit, which may include re-auctioning the lot concerned, or offering the lot to the second highest bidder for the same amount bid by the "first highest bidder" plus GST.
- 25 Each successful bidder will be invoiced for any amount payable in settlement shortly after the requirements of paragraph 4 of this Schedule have been complied with. Full payment in settlement must be received by the Manager, Finance, Communications Division, Ministry of Commerce, in Wellington within 10 (ten) working days of the date of the invoice. Payment must be made in New Zealand dollars. Cheques are to be made payable to the Ministry of Commerce (see paragraph 28 of this Schedule).

## SUITABILITY FOR PURPOSE

- 26 It is the responsibility of bidders to ensure that lots for which they are bidding are suitable for their purpose. No representations in this respect are made by the Secretary of Commerce.

## INVALID BIDS

- 27 A bid will be declared invalid where:
- a the bid form is not received by the Auction Manager in Wellington, within the specified time frame for any given bidding round; or
  - b the bid is not made on the form prescribed under this notice (that is, form RFA 2); or
  - c a lot reference is not stated, or it does not correspond exactly with a lot reference in the Second, Third, Fourth, Fifth or Sixth Schedules to this notice; or
  - d the bid form is not signed by an authorised registered bidder; or
  - e the bidders registration number is not entered.

- 28 Where a successful bidder fails to make full payment, in New Zealand dollars in settlement, to the Manager, Finance, Communications Division, Ministry of Commerce, in Wellington, within 10 (ten) working days of the date of the invoice for any given lot(s) provisionally won then the relevant bids(s) made by that bidder will be invalid.
- 29 Any bid made by or on behalf of an employee of the Ministry of Commerce will be invalid unless the prior express consent of the Secretary is obtained to that employee participating in the auction.

#### GOODS AND SERVICES TAX ("GST" )

- 30 The Department of Inland Revenue has advised the Ministry of Commerce that GST is payable in respect of successful bids. Accordingly, for the purposes of determining the results of this auction, all bids will be considered to exclude GST. GST will be recovered from successful bidders at the time that they are invoiced for payments in settlement. GST will be additional to the amount otherwise payable by the successful bidder. Any GST exemption certificate must be supplied at bidder registration if GST is not to be included in the price to be paid by the successful bidder. If an exemption certificate is not supplied at this time, the responsibility for arranging a GST refund will rest with the successful bidder.

#### ANNOUNCEMENT OF RESULTS

- 31 A list of provisionally successful bidders and bidding information will be published on Internet after the closing of the auction. Bidders will be notified by facsimile of the results of their bid(s) on or before publication of this list. Final results will be published in detail as soon as any necessary clearances or authorisations under the Commerce Act 1986, where applicable, have been produced, and payments in settlement, by the bidders concerned, have been received. Detailed information on this auction will be published in the New Zealand Gazette .

#### UPLIFTING OF LICENCES

- 32 Licences for the purpose of registration will be available to the successful bidder within 10 working days of the successful bidder satisfying the Secretary that clearance or authorisations under the Commerce Act 1986 are not required OR any necessary clearances or authorisations have been produced, and any required payments in settlement have been received. It is the responsibility of the bidders concerned to ensure that these licences are registered in accordance with the provisions of the Radiocommunications Act 1989.

#### REGISTRATION OF LICENCES

- 33 Successful bidders will be granted licences on the condition that the licences will be registered by the successful bidder or his or her agent in accordance with the

provisions of the Radiocommunications Act 1989 within 20 working days of the date of issue of the instrument.

- 34 If the Registrar of Radio Frequencies has not received a licence for registration within 20 working days of the date of issue of the instrument, the Secretary may require the bidder to return the instrument. Notwithstanding anything in paragraph 35 of this Schedule, if the Secretary makes this requirement, the bidder has the option of registering the instrument with the Registrar of Radio Frequencies within ten working days or returning the instrument to the Secretary who will destroy the document. Note, any monies paid in settlement of the instrument will be returned, less any administrative costs incurred by the Secretary.
- 35 Bidders should be aware that instruments do not confer any rights to transmit until they are registered. Any delay in registering instruments during the twenty working day period provided for registration can result in loss of rights under a licence as a result of:
- a. loss of priority of the licence in relation to other registered licences for the purposes of the provisions of the Radiocommunications Act 1989 relating to interference caused by lawful exercise of rights (Part XII);
  - b. account not being taken of the unregistered licence in engineering of future licences.
- 36 The Secretary of Commerce accepts no responsibility for any loss that results from delay by a successful bidder in registering instruments.

#### PUBLICATION OF INFORMATION OF GENERAL INTEREST ON THE INTERNET

- 37 Information of general interest related to this auction will be published on Internet as it becomes available. This information may be found at [ [www.govt.nz/ps/min/com/rsp/auc1](http://www.govt.nz/ps/min/com/rsp/auc1) ]

## SECOND SCHEDULE

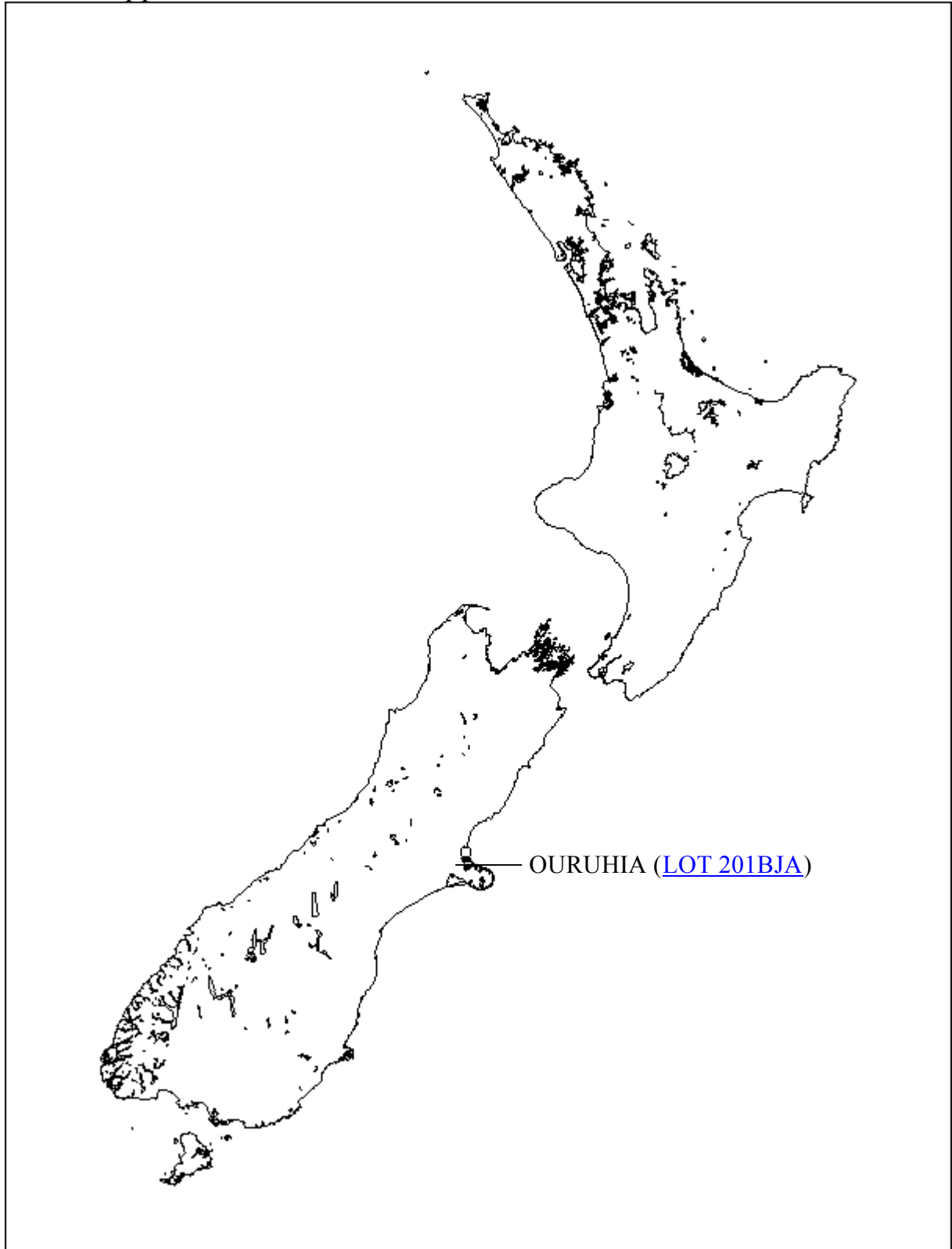
### IMPORTANT INFORMATION

- 1 The lot contained in this schedule is subject to special conditions.
- 2 There is 1 lot (referenced 201BJA) offered for auction in this Second Schedule. The lot is suitable for MF - AM sound broadcasting daylight hours only.
- 3 Terms and abbreviations used in lot descriptions have the following meanings:

The powers in this schedule are expressed in terms of eirp. The values in eirp are 5 dB higher than the value of the product of transmitter power and antenna gain when expressed in terms of effective monopole radiated power (emrp).

- Location is specified in INFOMAP 260 1:50,000 series maps.
  - Receive coverage locations are specified in INFOMAP 260 1:50,000 series maps.
  - Class of emission is given in terms of emission designations in Article 4 of the International Radio Regulations and ITU-R Recommendations.
  - dBW means decibels with reference to 1 watt.
  - eirp means equivalent isotropically radiated power as defined in section 2 of the Radiocommunications Act 1989.
  - dB $\mu$ V/m means a field strength intensity in decibels with reference to 1 microvolt per metre. Field strengths are measured in accordance with the Recommendations and Reports of the ITU-R.
- 4 The successful bidder in relation to each lot will be granted, upon payment in accordance with the First Schedule above, a registrable instrument or instruments that upon registration will authorise the bidder to transmit in accordance with the specifications set out in relation to the relevant lot and the general provisions specified on the following pages. Prospective bidders should thoroughly familiarise themselves with the Radiocommunications Act 1989. This offer, and all rights granted hereunder are subject to that Act.

Approximate locations referred to in the Second Schedule.



Index to Second Schedule.

<u>LOT</u>	<u>LOCATION</u>	<u>FREQUENCY</u>
<a href="#">201BJA</a>	OURUHIA	0.540 MHz

## SCHEDULE

### 1. Particulars of transmitters to which this licence relates:

#### (a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	M35 834512	OURUHIA	2 m Above Sea Level

#### (b) Maximum power of emissions permitted under this licence: 35.0 dBW (e.i.r.p.)

#### (c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.01 MHz above the frequencies to which this licence relates.
- Not more than 0.01 MHz below the frequencies to which this licence relates.

#### (d) Designation of emissions permitted under this licence:

20K0A3EGN

#### (e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 35.0 dBW.

#### (f) Antenna polarisation: Vertical

#### (g) Antenna height: 55 metres above ground level

### 2. Other particulars:

#### (a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	M35 864462	Queen Elizabeth II Park RCL
INFOMAP 260	M35 814577	Kaiapoi High School RCL

#### (b) Maximum permitted interfering signals applying to receive coverage location or locations:

Co-channel: 63 dB $\mu$ V/m.

#### (c) Expiry date of this licence: 2 April 2011.

- (d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

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.

This licence is for daytime hours of operation only. The hours defining daytime/night-time will be in accordance with figure 20, Chapter 3 (Annex 2) of the Final Acts of the Regional Administrative LF/MF Broadcasting Conference (Regions 1 and 3), Geneva 1975.

3. Frequency particulars:

- (a) Frequency 0.540 MHz:

- (b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

- (i) Limits applying to frequencies below the frequency:

-50.0 dBW at 0.414 MHz to -43.0 dBW at 0.456 MHz  
-43.0 dBW at 0.456 MHz to -43.0 dBW at 0.465 MHz  
-43.0 dBW at 0.465 MHz to -28.0 dBW at 0.500 MHz  
-28.0 dBW at 0.500 MHz to -10.0 dBW at 0.526 MHz  
-10.0 dBW at 0.526 MHz to 35.0 dBW at 0.530 MHz

- (ii) Limits applying to frequencies above the frequency:

35.0 dBW at 0.550 MHz to -10.0 dBW at 0.554 MHz  
-10.0 dBW at 0.554 MHz to -28.0 dBW at 0.580 MHz  
-28.0 dBW at 0.580 MHz to -43.0 dBW at 0.615 MHz  
-43.0 dBW at 0.615 MHz to -43.0 dBW at 1.677 MHz  
-43.0 dBW at 1.677 MHz to -50.0 dBW at 1.719 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

- (c) Day on which right to transmit on frequency commences: 15 September 1996.  
(d) Day on which right to transmit on frequency expires: 2 April 2011.

## THIRD SCHEDULE

### IMPORTANT INFORMATION

1 There is a total of 3 lots (referenced 301CJA to 303CJC) offered for auction in this Third Schedule. Each lot is a single licence suitable for MF - AM Sound broadcasting.

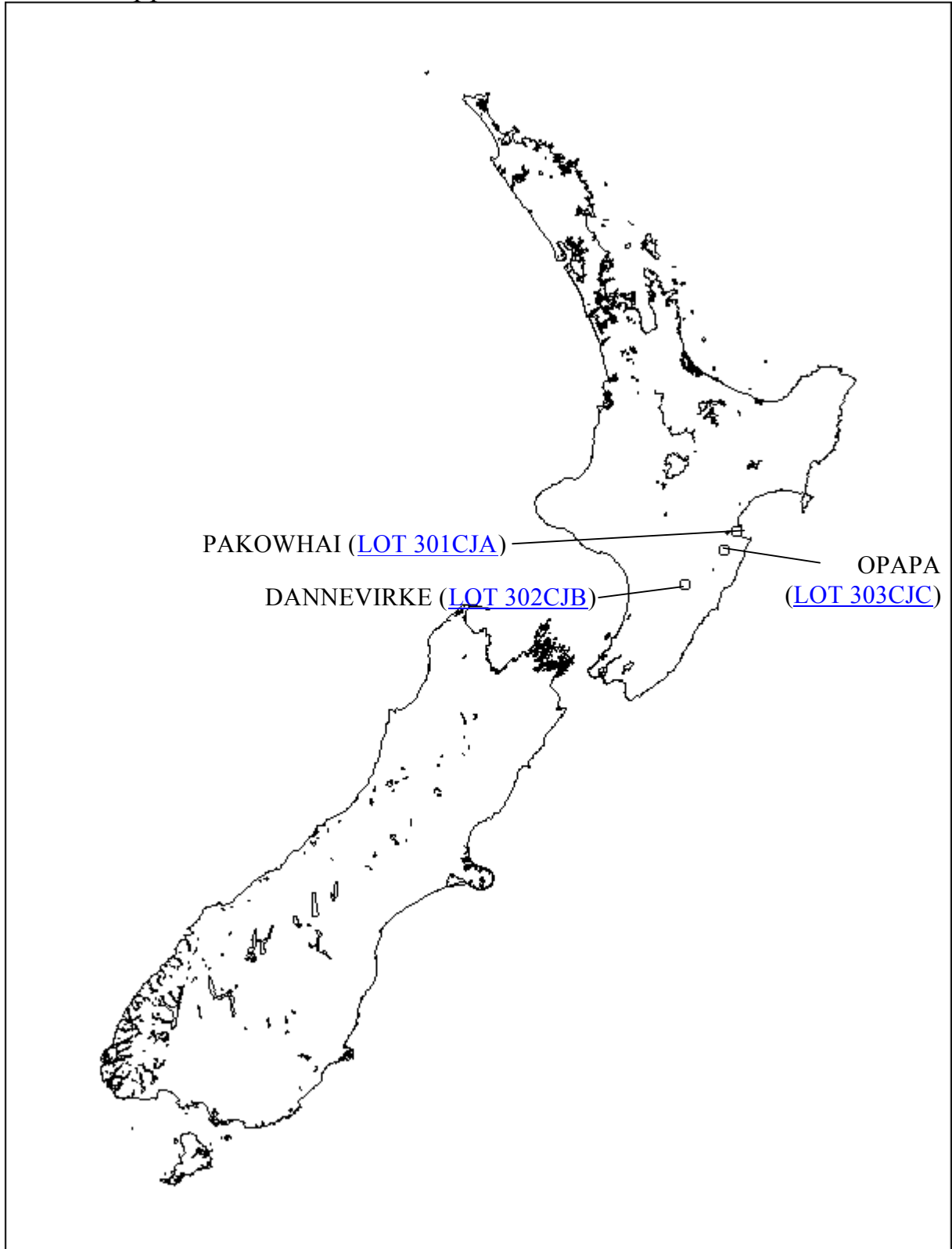
2 Terms and abbreviations used in lot descriptions have the following meanings:

The powers in this schedule are expressed in terms of eirp. The values in eirp are 5 dB higher than the value of the product of transmitter power and antenna gain when expressed in terms of effective monopole radiated power (emrp).

- Location is specified in INFOMAP 260 1:50,000 series maps.
- Receive coverage locations are specified in INFOMAP 260 1:50,000 series maps.
- Class of emission is given in terms of emission designations in Article 4 of the International Radio Regulations and ITU-R Recommendations.
- dBW means decibels with reference to 1 watt.
- eirp means equivalent isotropically radiated power as defined in section 2 of the Radiocommunications Act 1989.
- dB $\mu$ V/m means a field strength intensity in decibels with reference to 1 microvolt per metre. Field strengths are measured in accordance with the Recommendations and Reports of the ITU-R.

3 The successful bidder in relation to each lot will be granted, upon payment in accordance with the First Schedule above, a single registrable instrument that upon registration will authorise the bidder to transmit in accordance with the specifications set out in relation to the relevant lot and the general provisions specified on the following pages. Prospective bidders should thoroughly familiarise themselves with the Radiocommunications Act 1989. This offer, and all rights granted hereunder are subject to that Act.

Approximate locations referred to in the Third Schedule.



Index to Third Schedule.

<u>LOT</u>	<u>LOCATION</u>	<u>FREQUENCY</u>
<a href="#"><u>301CJA</u></a>	PAKOWHAI	0.909 MHz
<a href="#"><u>302CJB</u></a>	DANNEVIRKE	1.206 MHz
<a href="#"><u>303CJC</u></a>	OPAPA	1.368 MHz

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 V21	421754	PAKOWHAI	15 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 34.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.01 MHz above the frequencies to which this licence relates.

- Not more than 0.01 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

20K0A3EGN

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 34.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 41 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 V21	438636	Hereworth School RCL
INFOMAP 260 V21	430893	Patene Domain RCL
INFOMAP 260 V21	303710	Roys Hill RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations:

Co-channel: 52 dBµV/m.

(c) Expiry date of this licence: 2 April 2011.

- (d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

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.

3. Frequency particulars:

- (a) Frequency 0.909 MHz:

- (b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

- (i) Limits applying to frequencies below the frequency:

-50.0 dBW at 0.414 MHz to -43.0 dBW at 0.456 MHz  
 -43.0 dBW at 0.456 MHz to -43.0 dBW at 0.834 MHz  
 -43.0 dBW at 0.834 MHz to -29.0 dBW at 0.869 MHz  
 -29.0 dBW at 0.869 MHz to -11.0 dBW at 0.895 MHz  
 -11.0 dBW at 0.895 MHz to 34.0 dBW at 0.899 MHz

- (ii) Limits applying to frequencies above the frequency:

34.0 dBW at 0.919 MHz to -11.0 dBW at 0.923 MHz  
 -11.0 dBW at 0.923 MHz to -29.0 dBW at 0.949 MHz  
 -29.0 dBW at 0.949 MHz to -43.0 dBW at 0.984 MHz  
 -43.0 dBW at 0.984 MHz to -43.0 dBW at 1.677 MHz  
 -43.0 dBW at 1.677 MHz to -50.0 dBW at 1.719 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

- (c) Day on which right to transmit on frequency commences: 15 September 1996.  
 (d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	U23 740060	DANNEVIRKE	200 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 25.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.01 MHz above the frequencies to which this licence relates.

- Not more than 0.01 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

20K0A3EGN

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 25.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 60 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	T23 673002	Oringi RCL
INFOMAP 260	U23 791134	Matamau RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations:

Co-channel: 53 dBµV/m.

(c) Expiry date of this licence: 2 April 2011.

- (d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

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.

3. Frequency particulars:

- (a) Frequency 1.206 MHz:

- (b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

- (i) Limits applying to frequencies below the frequency:

-50.0 dBW at 0.414 MHz to -43.0 dBW at 0.456 MHz  
 -43.0 dBW at 0.456 MHz to -43.0 dBW at 1.131 MHz  
 -43.0 dBW at 1.131 MHz to -38.0 dBW at 1.166 MHz  
 -38.0 dBW at 1.166 MHz to -20.0 dBW at 1.192 MHz  
 -20.0 dBW at 1.192 MHz to 25.0 dBW at 1.196 MHz

- (ii) Limits applying to frequencies above the frequency:

25.0 dBW at 1.216 MHz to -20.0 dBW at 1.220 MHz  
 -20.0 dBW at 1.220 MHz to -38.0 dBW at 1.246 MHz  
 -38.0 dBW at 1.246 MHz to -43.0 dBW at 1.281 MHz  
 -43.0 dBW at 1.281 MHz to -43.0 dBW at 1.677 MHz  
 -43.0 dBW at 1.677 MHz to -50.0 dBW at 1.719 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

- (c) Day on which right to transmit on frequency commences: 15 September 1996.  
 (d) Day on which right to transmit on frequency expires: 2 April 2011.

## SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 V22	246499	OPAPA	35 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 30.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.01 MHz above the frequencies to which this licence relates.
- Not more than 0.01 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

20K0A3EGN

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 30.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 55 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 V21	359606	Cnr Stock Rd and Mutiny Rd Pakipaki RCL
INFOMAP 260 V22	199394	Otane RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations:

Co-channel: 58 dB $\mu$ V/m.

(c) Expiry date of this licence: 2 April 2011.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

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.

3. Frequency particulars:

(a) Frequency 1.368 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 0.414 MHz to -43.0 dBW at 0.456 MHz  
-43.0 dBW at 0.456 MHz to -43.0 dBW at 1.293 MHz  
-43.0 dBW at 1.293 MHz to -33.0 dBW at 1.328 MHz  
-33.0 dBW at 1.328 MHz to -15.0 dBW at 1.354 MHz  
-15.0 dBW at 1.354 MHz to 30.0 dBW at 1.358 MHz

(ii) Limits applying to frequencies above the frequency:

30.0 dBW at 1.378 MHz to -15.0 dBW at 1.382 MHz  
-15.0 dBW at 1.382 MHz to -33.0 dBW at 1.408 MHz  
-33.0 dBW at 1.408 MHz to -43.0 dBW at 1.443 MHz  
-43.0 dBW at 1.443 MHz to -43.0 dBW at 1.677 MHz  
-43.0 dBW at 1.677 MHz to -50.0 dBW at 1.719 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

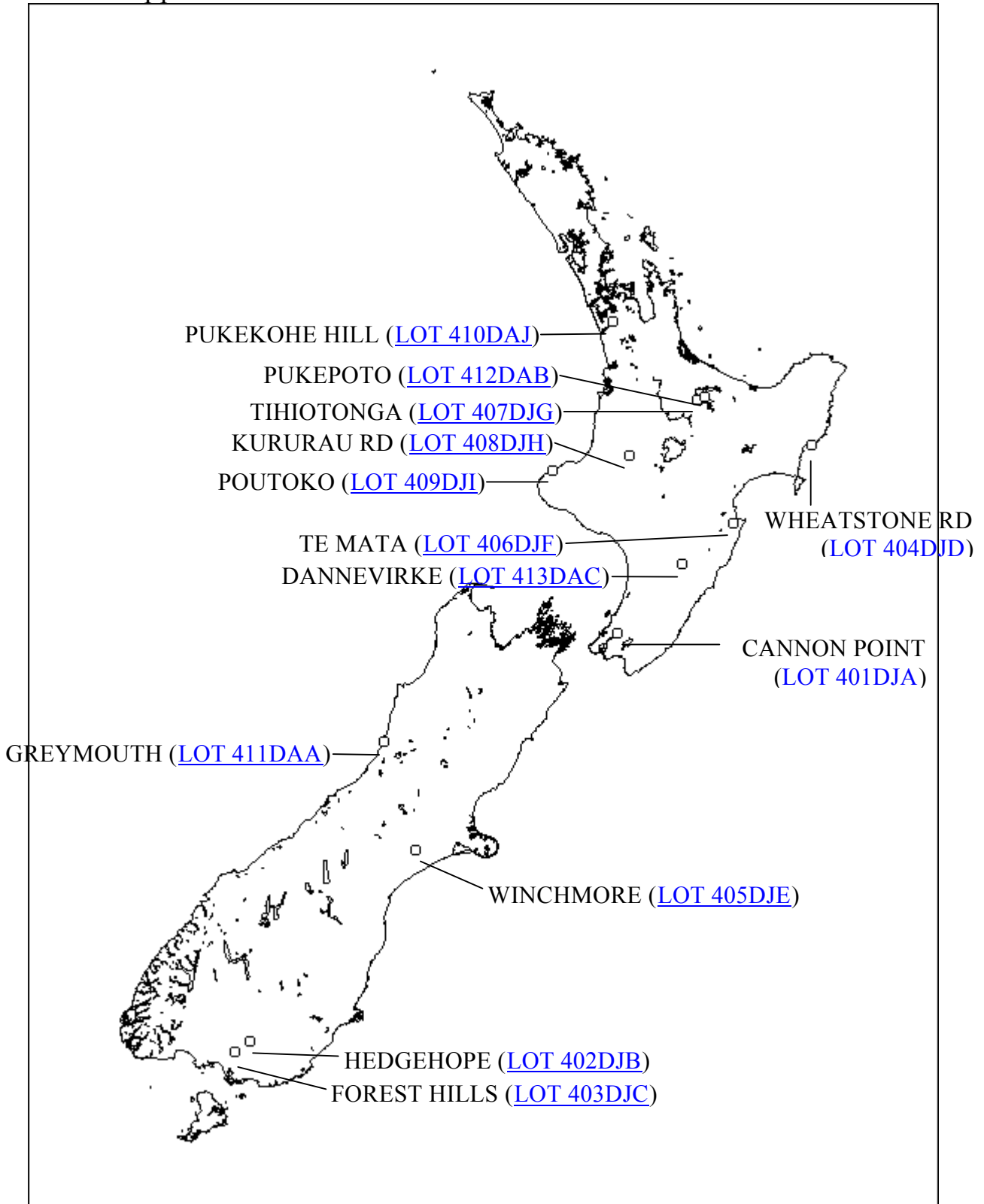
(d) Day on which right to transmit on frequency expires: 2 April 2011.

## FOURTH SCHEDULE

### IMPORTANT INFORMATION

- 1 There is a total of 13 lots (referenced 401DJA to 413DAC) offered for auction in this Fourth Schedule. Each lot is a single licence suitable for VHF - FM Sound broadcasting.
- 2 Terms and abbreviations used in lot descriptions have the following meanings:
  - Location is specified in INFOMAP 260 1:50,000 series
  - Receive coverage locations are specified in INFOMAP 260 1:50,000 series maps.
  - Class of emission is given in terms of emission designations in Article 4 of the International Radio Regulations and ITU-R Recommendations
  - dBW means decibels with reference to 1 watt.
  - eirp means equivalent isotropically radiated power as defined in section 2 of the Radiocommunications Act 1989.
  - dB $\mu$ V/m means a field strength intensity in decibels with reference to 1 microvolt per metre. Field strengths are measured in accordance with the Recommendations and Reports of the ITU-R.
- 3 The successful bidder in relation to each lot will be granted, upon payment in accordance with the First Schedule above, a single registrable instrument that upon registration will authorise the bidder to transmit in accordance with the specifications set out in relation to the relevant lot and the general provisions specified on the following pages. Prospective bidders should thoroughly familiarise themselves with the Radiocommunications Act 1989. This offer, and all rights granted hereunder are subject to that Act.

Approximate locations referred to in the Fourth Schedule.



## Index to Fourth Schedule.

<u>LOT</u>	<u>LOCATION</u>	<u>FREQUENCY</u>
<a href="#"><u>401DJA</u></a>	CANNON POINT	89.40 MHz
<a href="#"><u>402DJB</u></a>	HEDGEHOPE	90.80 MHz
<a href="#"><u>403DJC</u></a>	FOREST HILLS	92.40 MHz
<a href="#"><u>404DJD</u></a>	WHEATSTONE RD	92.50 MHz
<a href="#"><u>405DJE</u></a>	WINCHMORE	92.50 MHz
<a href="#"><u>406DJF</u></a>	TE MATA	93.50 MHz
<a href="#"><u>407DJG</u></a>	TIHIOTONGA	94.30 MHz
<a href="#"><u>408DJH</u></a>	KURURAU RD	95.90 MHz
<a href="#"><u>409DJI</u></a>	POUTOKO	96.40 MHz
<a href="#"><u>410DAJ</u></a>	PUKEKOHE HILL	96.50 MHz
<a href="#"><u>411DAA</u></a>	GREYMOUTH	97.10 MHz
<a href="#"><u>412DAB</u></a>	PUKEPOTO	98.30 MHz
<a href="#"><u>413DAC</u></a>	DANNEVIRKE	99.40 MHz

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 R27 841093		CANNON POINT	280 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 22.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 22.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 10 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 R27 810053		Trentham Racecourse RCL
INFOMAP 260 R27 834079		Riverbank Park RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 21 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  100kHz): 34 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  200kHz): 59 dB $\mu$ V/m.

(c) Expiry date of this licence: 2 April 2011.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

(a) Frequency 89.40 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 88.80 MHz  
 -13.0 dBW at 88.80 MHz to -13.0 dBW at 89.16 MHz  
 -3.0 dBW at 89.16 MHz to -3.0 dBW at 89.28 MHz

(ii) Limits applying to frequencies above the frequency:

-3.0 dBW at 89.52 MHz to -3.0 dBW at 89.64 MHz  
 -13.0 dBW at 89.64 MHz to -13.0 dBW at 90.00 MHz  
 -43.0 dBW at 90.00 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	F45 783485	HEDGEHOPE	644 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 46.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.

- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	175 degrees:	40.0 dBW.
Over 175 degrees up to	265 degrees:	46.0 dBW.
Over 265 degrees up to	360 degrees:	40.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 63 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	E45 483420	Winton School RCL
INFOMAP 260	E46 545132	Waverley Park RCL
INFOMAP 260	F45 960476	Gore Showgrounds RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel:	21 dB $\mu$ V/m.
Adjacent channel ( $\pm$ 100kHz):	33 dB $\mu$ V/m.
Adjacent channel ( $\pm$ 200kHz):	59 dB $\mu$ V/m.

(c) Expiry date of this licence: 2 April 2011.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

(a) Frequency 90.80 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 90.20 MHz  
 11.0 dBW at 90.20 MHz to 11.0 dBW at 90.56 MHz  
 21.0 dBW at 90.56 MHz to 21.0 dBW at 90.68 MHz

(ii) Limits applying to frequencies above the frequency:

21.0 dBW at 90.92 MHz to 21.0 dBW at 91.04 MHz  
 11.0 dBW at 91.04 MHz to 11.0 dBW at 91.40 MHz  
 -43.0 dBW at 91.40 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	E46 578331	FOREST HILLS	203 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 39.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	020 degrees:	37.0 dBW.
Over 020 degrees up to	340 degrees:	39.0 dBW.
Over 340 degrees up to	360 degrees:	37.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 30 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	E46 531158	Cnr Bainfield Rd & Queens Drive RCL
INFOMAP 260	E47 526089	Cnr Kew Rd & Bluff Rd RCL
INFOMAP 260	E46 473206	Wallacetown RCL
INFOMAP 260	E46 672186	Woodlands RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 21 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  100kHz): 33 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  200kHz): 59 dB $\mu$ V/m.

(c) Expiry date of this licence: 2 April 2011.

- (d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

- (a) Frequency 92.40 MHz:

- (b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

- (i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 91.80 MHz  
 4.0 dBW at 91.80 MHz to 4.0 dBW at 92.16 MHz  
 14.0 dBW at 92.16 MHz to 14.0 dBW at 92.28 MHz

- (ii) Limits applying to frequencies above the frequency:

14.0 dBW at 92.52 MHz to 14.0 dBW at 92.64 MHz  
 4.0 dBW at 92.64 MHz to 4.0 dBW at 93.00 MHz  
 -43.0 dBW at 93.00 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

- (c) Day on which right to transmit on frequency commences: 15 September 1996.  
 (d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	Y18 509682	WHEATSTONE RD	160 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 22.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 22.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 20 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	Y18 435704	Gisborne Airport RCL
INFOMAP 260	Y18 451723	Lytton High School RCL
INFOMAP 260	Y18 487688	Kaiti Memorial Park RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 21 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  100kHz): 33 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  200kHz): 59 dB $\mu$ V/m.

(c) Expiry date of this licence: 2 April 2011.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

(a) Frequency 92.50 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 91.90 MHz  
 -13.0 dBW at 91.90 MHz to -13.0 dBW at 92.26 MHz  
 -3.0 dBW at 92.26 MHz to -3.0 dBW at 92.38 MHz

(ii) Limits applying to frequencies above the frequency:

-3.0 dBW at 92.62 MHz to -3.0 dBW at 92.74 MHz  
 -13.0 dBW at 92.74 MHz to -13.0 dBW at 93.10 MHz  
 -43.0 dBW at 93.10 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	K36 058109	WINCHMORE	162 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 39.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 39.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 90 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	K37 077983	Tinwald Sportsground RCL
INFOMAP 260	L37 106015	Ashburton Racecourse RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 24 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  100kHz): 33 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  200kHz): 59 dB $\mu$ V/m.

(c) Expiry date of this licence: 2 April 2011.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

(a) Frequency 92.50 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 91.90 MHz  
 4.0 dBW at 91.90 MHz to 4.0 dBW at 92.26 MHz  
 14.0 dBW at 92.26 MHz to 14.0 dBW at 92.38 MHz

(ii) Limits applying to frequencies above the frequency:

14.0 dBW at 92.62 MHz to 14.0 dBW at 92.74 MHz  
 4.0 dBW at 92.74 MHz to 4.0 dBW at 93.10 MHz  
 -43.0 dBW at 93.10 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	V21 449603	TE MATA	280 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 20.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	194 degrees:	20.0 dBW.
Over 194 degrees up to	254 degrees:	4.0 dBW.
Over 254 degrees up to	360 degrees:	20.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 10 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	V21 400670	King St Hastings RCL
INFOMAP 260	V21 449629	Fulford Rd Havelock North RCL
INFOMAP 260	V21 355689	Flaxmere School RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 44 dBµV/m.  
 Adjacent channel (± 100kHz): 33 dBµV/m.  
 Adjacent channel (± 200kHz): 59 dBµV/m.

(c) Expiry date of this licence: 2 April 2011.

- (d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

- (a) Frequency 93.50 MHz:

- (b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

- (i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 92.90 MHz  
 -15.0 dBW at 92.90 MHz to -15.0 dBW at 93.26 MHz  
 -5.0 dBW at 93.26 MHz to -5.0 dBW at 93.38 MHz

- (ii) Limits applying to frequencies above the frequency:

-5.0 dBW at 93.62 MHz to -5.0 dBW at 93.74 MHz  
 -15.0 dBW at 93.74 MHz to -15.0 dBW at 94.10 MHz  
 -43.0 dBW at 94.10 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

- (c) Day on which right to transmit on frequency commences: 15 September 1996.

- (d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
	INFOMAP 260 U16 9323 13	TIHIOTONGA	435 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 23.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	090 degrees:	23.0 dBW.
Over 090 degrees up to	140 degrees:	20.0 dBW.
Over 140 degrees up to	265 degrees:	13.0 dBW.
Over 265 degrees up to	310 degrees:	20.0 dBW.
Over 310 degrees up to	360 degrees:	23.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 50 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 U16 945357		Kuirau Park RCL
INFOMAP 260 U16 944332		Arikikapakapa Golfcourse RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 21 dBµV/m.  
 Adjacent channel (± 100kHz): 33 dBµV/m.  
 Adjacent channel (± 200kHz): 59 dBµV/m.

(c) Expiry date of this licence: 2 April 2011.

- (d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

- (a) Frequency 94.30 MHz:

- (b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

- (i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 93.70 MHz  
 -12.0 dBW at 93.70 MHz to -12.0 dBW at 94.06 MHz  
 -2.0 dBW at 94.06 MHz to -2.0 dBW at 94.18 MHz

- (ii) Limits applying to frequencies above the frequency:

-2.0 dBW at 94.42 MHz to -2.0 dBW at 94.54 MHz  
 -12.0 dBW at 94.54 MHz to -12.0 dBW at 94.90 MHz  
 -43.0 dBW at 94.90 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

- (c) Day on which right to transmit on frequency commences: 15 September 1996.  
 (d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 S18 014553		KURURAU RD	528 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 26.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 26.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 10 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 S18 067550		Sports Ground RCL
INFOMAP 260 S18 103554		Motor Camp RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 36 dBµV/m.  
 Adjacent channel (± 100kHz): 33 dBµV/m.  
 Adjacent channel (± 200kHz): 59 dBµV/m.

(c) Expiry date of this licence: 2 April 2011.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

(a) Frequency 95.90 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as a maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 95.30 MHz  
 -9.0 dBW at 95.30 MHz to -9.0 dBW at 95.66 MHz  
 1.0 dBW at 95.66 MHz to 1.0 dBW at 95.78 MHz

(ii) Limits applying to frequencies above the frequency:

1.0 dBW at 96.02 MHz to 1.0 dBW at 96.14 MHz  
 -9.0 dBW at 96.14 MHz to -9.0 dBW at 96.50 MHz  
 -43.0 dBW at 96.50 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
	INFOMAP 260 P19 954335	POUTOKO	83 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 25.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 25.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 10 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
	INFOMAP 260 P19 915315	Oakura Motor Camp RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 21 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  100kHz): 33 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  200kHz): 59 dB $\mu$ V/m.

(c) Expiry date of this licence: 2 April 2011.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

(a) Frequency 96.40 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 95.80 MHz  
 -10.0 dBW at 95.80 MHz to -10.0 dBW at 96.16 MHz  
 0.0 dBW at 96.16 MHz to 0.0 dBW at 96.28 MHz

(ii) Limits applying to frequencies above the frequency:

0.0 dBW at 96.52 MHz to 0.0 dBW at 96.64 MHz  
 -10.0 dBW at 96.64 MHz to -10.0 dBW at 97.00 MHz  
 -43.0 dBW at 97.00 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 R12	783397	PUKEKOHE HILL	222 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 17.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	340 degrees:	17.0 dBW.
Over 340 degrees up to	360 degrees:	7.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 25 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 R12	859359	Whangarata School RCL
INFOMAP 260 R12	783487	Wesley College RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 25 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  100kHz): 37 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  200kHz): 59 dB $\mu$ V/m.

(c) Expiry date of this licence: 2 April 2011.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

(a) Frequency 96.50 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 95.90 MHz  
 -18.0 dBW at 95.90 MHz to -18.0 dBW at 96.26 MHz  
 -8.0 dBW at 96.26 MHz to -8.0 dBW at 96.38 MHz

(ii) Limits applying to frequencies above the frequency:

-8.0 dBW at 96.62 MHz to -8.0 dBW at 96.74 MHz  
 -18.0 dBW at 96.74 MHz to -18.0 dBW at 97.10 MHz  
 -43.0 dBW at 97.10 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	J31 626605	GREYMOUTH	10 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 18.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 18.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 20 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	J31 622600	Victoria Park RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 22 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  100kHz): 33 dB $\mu$ V/m.  
 Adjacent channel ( $\pm$  200kHz): 59 dB $\mu$ V/m.

(c) Expiry date of this licence: 2 April 2011.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

(a) Frequency 97.10 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 96.50 MHz  
 -17.0 dBW at 96.50 MHz to -17.0 dBW at 96.86 MHz  
 -7.0 dBW at 96.86 MHz to -7.0 dBW at 96.98 MHz

(ii) Limits applying to frequencies above the frequency:

-7.0 dBW at 97.22 MHz to -7.0 dBW at 97.34 MHz  
 -17.0 dBW at 97.34 MHz to -17.0 dBW at 97.70 MHz  
 -43.0 dBW at 97.70 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 2 April 2011.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
	INFOMAP 260 U16 036358	PUKEPOTO	570 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 30.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	180 degrees:	30.0 dBW.
Over 180 degrees up to	220 degrees:	28.0 dBW.
Over 220 degrees up to	360 degrees:	30.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 21 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 U16 944334		Arikikapakapa Golfcourse RCL
INFOMAP 260 U15 917420		Ngongotaha School RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 21 dBµV/m.  
 Adjacent channel (± 100kHz): 33 dBµV/m.  
 Adjacent channel (± 200kHz): 59 dBµV/m.

(c) Expiry date of this licence: 2 April 2011.

- (d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

- (a) Frequency 98.30 MHz:

- (b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

- (i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
 -43.0 dBW at 88.40 MHz to -43.0 dBW at 97.70 MHz  
 -5.0 dBW at 97.70 MHz to -5.0 dBW at 98.06 MHz  
 5.0 dBW at 98.06 MHz to 5.0 dBW at 98.18 MHz

- (ii) Limits applying to frequencies above the frequency:

5.0 dBW at 98.42 MHz to 5.0 dBW at 98.54 MHz  
 -5.0 dBW at 98.54 MHz to -5.0 dBW at 98.90 MHz  
 -43.0 dBW at 98.90 MHz to -43.0 dBW at 100.60 MHz  
 -50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

- (c) Day on which right to transmit on frequency commences: 15 September 1996.

- (d) Day on which right to transmit on frequency expires: 2 April 2011.

## SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	U23 740062	DANNEVIRKE	210 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 12.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 0.12 MHz above the frequencies to which this licence relates.
- Not more than 0.12 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

256KF8EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 12.0 dBW.

(f) Antenna polarisation: Mixed or Linear

(g) Antenna height: 20 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	U23 747080	Dannevirke Public Hospital RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 25 dB $\mu$ V/m.  
Adjacent channel ( $\pm$  100kHz): 33 dB $\mu$ V/m.  
Adjacent channel ( $\pm$  200kHz): 59 dB $\mu$ V/m.

(c) Expiry date of this licence: 2 April 2011.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

3. Frequency particulars:

(a) Frequency 99.40 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 88.00 MHz to -43.0 dBW at 88.40 MHz  
-43.0 dBW at 88.40 MHz to -43.0 dBW at 98.80 MHz  
-23.0 dBW at 98.80 MHz to -23.0 dBW at 99.16 MHz  
-13.0 dBW at 99.16 MHz to -13.0 dBW at 99.28 MHz

(ii) Limits applying to frequencies above the frequency:

-13.0 dBW at 99.52 MHz to -13.0 dBW at 99.64 MHz  
-23.0 dBW at 99.64 MHz to -23.0 dBW at 100.00 MHz  
-43.0 dBW at 100.00 MHz to -43.0 dBW at 100.60 MHz  
-50.0 dBW at 100.60 MHz to -50.0 dBW at 101.00 MHz

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

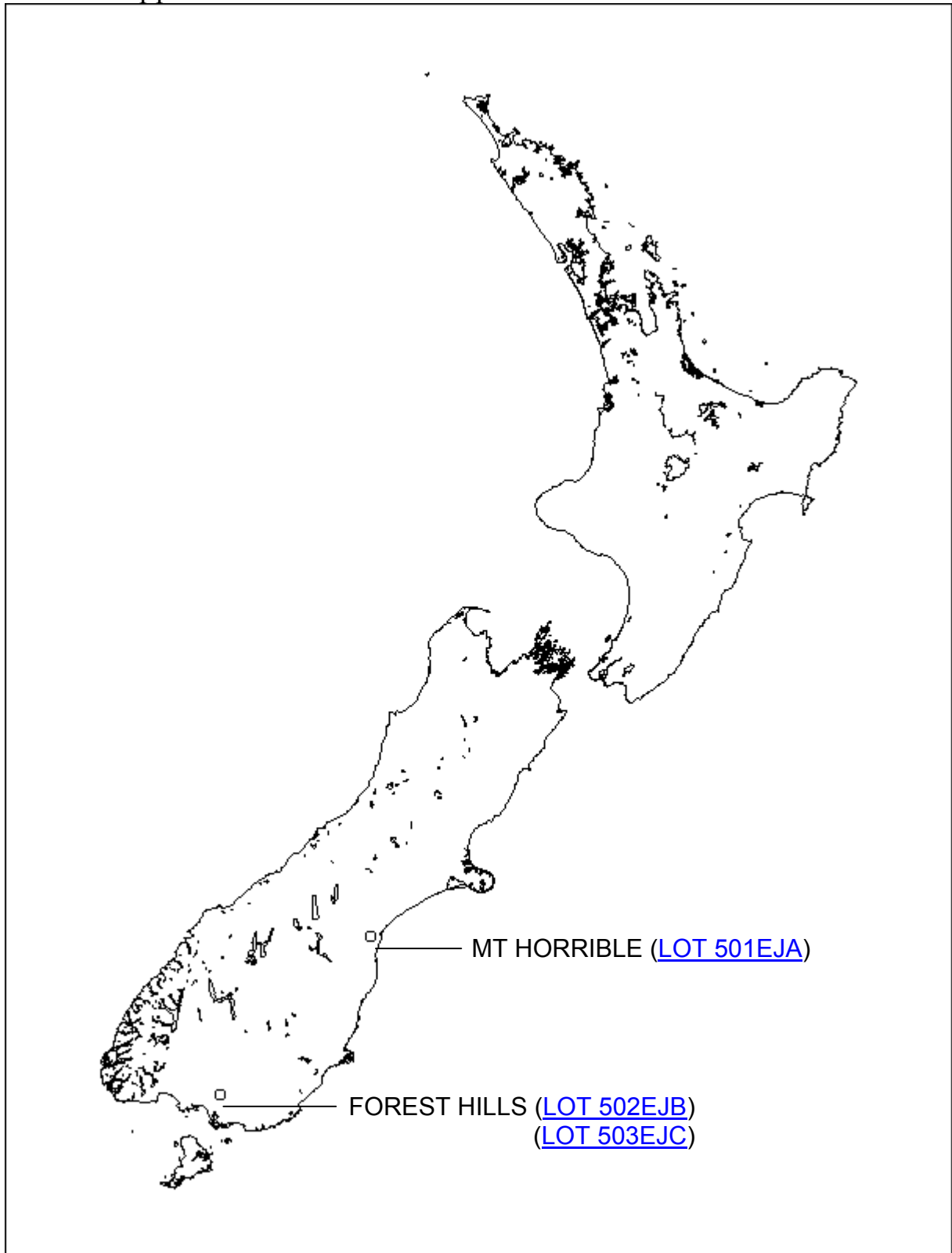
(d) Day on which right to transmit on frequency expires: 2 April 2011.

## FIFTH SCHEDULE

### IMPORTANT INFORMATION

- 1 There is a total of 3 lots (referenced 501EJA to 503EJC) offered for auction in this Fifth Schedule. Each lot is a single licence suitable for VHF Television broadcasting.
- 2 Terms and abbreviations used in lot descriptions have the following meanings:
  - Location is specified in INFOMAP 260 1:50,000 series maps.
  - Receive coverage locations are specified in INFOMAP 260 1:50,000 series maps.
  - Class of emission is given in terms of emission designations in Article 4 of the International Radio Regulations and ITU-R Recommendations.
  - dBW means decibels with reference to 1 watt.
  - eirp means equivalent isotropically radiated power as defined in section 2 of the Radiocommunications Act 1989.
  - dB $\mu$ V/m means a field strength intensity in decibels with reference to 1 microvolt per metre. Field strengths are measured in accordance with the Recommendations and Reports of the ITU-R.
- 3 The successful bidder in relation to each lot will be granted, upon payment in accordance with the First Schedule above, a single registrable instrument that upon registration will authorise the bidder to transmit in accordance with the specifications set out in relation to the relevant lot and the general provisions specified on the following pages. Prospective bidders should thoroughly familiarise themselves with the Radiocommunications Act 1989. This offer, and all rights granted hereunder are subject to that Act.

Approximate locations referred to in the Fifth Schedule.



Index to Fifth Schedule.

<u>LOT</u>	<u>LOCATION</u>	<u>FREQUENCY</u>
<a href="#"><u>501EJA</u></a>	MT HORRIBLE	182.250000 MHz
<a href="#"><u>502EJB</u></a>	FOREST HILLS	182.237000 MHz
<a href="#"><u>503EJC</u></a>	FOREST HILLS	210.237000 MHz

SCHEDULE

1 Particulars of transmitter to which this licence relates:

(a) Location of transmitter:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 J39	564437	MT HORRIBLE	355 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 39 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 5.75 MHz above the frequencies to which this licence relates
- Not more than 1.25 MHz below the frequencies to which this licence relates

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 055 degrees:	39 dBW
Over 055 degrees up to 070 degrees:	36 dBW
Over 070 degrees up to 180 degrees:	39 dBW
Over 180 degrees up to 195 degrees:	34 dBW
Over 195 degrees up to 360 degrees:	39 dBW

(f) Antenna polarisation: Vertical

(g) Antenna height: 7 metres above ground level

2 Other particulars:

(a) Receive Coverage Locations and associated Maximum Permitted Interfering Signals

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Co-channel Maximum Permitted Interfering Signal Level</u>
INFOMAP 260 J38	698781	GERALDINE HIGHSCHOOL RCL	26 dB $\mu$ V/m
INFOMAP 260 K38	730608	TEMUKA WAR MEMORIAL RCL	29 dB $\mu$ V/m
INFOMAP 260 J39	687448	TIMARU WEST END PARK RCL	36 dB $\mu$ V/m
INFOMAP 260 J40	557054	WAIMATE RACECOURSE RCL	22 dB $\mu$ V/m

(b) Expiry date of this licence: 30 August 2015

(c) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

The maximum permitted interfering signals above shall be measured at a height of 10 metres above ground level.

The tolerance of the characteristic frequency shall be  $\pm 500$  Hz.

The rightholder shall transmit a video signal conforming to the Phase Alternating Line (PAL) System B standard as described in ITU-R Report 624-4.

The rightholder may transmit a signal conforming to the NICAM 728 standard (NICAM transmission).

3 Frequency particulars:

(a) Frequency: 182.250000 MHz

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50 dBW at	166.475000 MHz to	-21 dBW at	170.975000 MHz.
-21 dBW at	170.975000 MHz to	-21 dBW at	178.000000 MHz.
-21 dBW at	178.000000 MHz to	9 dBW at	181.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

19 dBW at	188.000000 MHz to	19 dBW at	188.360000 MHz.
9 dBW at	188.360000 MHz to	-21 dBW at	191.000000 MHz.
-21 dBW at	191.000000 MHz to	-21 dBW at	233.025000 MHz.
-21 dBW at	233.025000 MHz to	-50 dBW at	237.525000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$P = A + (B - A)(F - X)/(Y - X) \text{ for all frequency sectors,}$$

where:

P = power (dBW) at any frequency F between defined limits X and Y

A = power (dBW) at lower frequency limit X

B = power (dBW) at upper frequency limit Y

X = lower frequency limit (MHz)

Y = upper frequency limit (MHz)

F = frequency (MHz) at which power P is to be determined

X < F < Y]

(c) Day on which right to transmit on frequency commences: 15 September 1996

(d) Day on which right to transmit on frequency expires: 30 August 2015

SCHEDULE

1 Particulars of transmitter to which this licence relates:

(a) Location of transmitter:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 E46	578331	FOREST HILLS	203 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 49 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 5.75 MHz above the frequencies to which this licence relates
- Not more than 1.25 MHz below the frequencies to which this licence relates

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 090 degrees:	26 dBW
Over 090 degrees up to 220 degrees:	49 dBW
Over 220 degrees up to 300 degrees:	39 dBW
Over 300 degrees up to 360 degrees:	26 dBW

(f) Antenna polarisation: Horizontal

(g) Antenna height: 15 metres above ground level

2 Other particulars:

(a) Receive Coverage Locations and associated Maximum Permitted Interfering Signals

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Co-channel Maximum Permitted Interfering Signal Level</u>
INFOMAP 260 F46	849245	EDENDALE SCHOOL	29 dBµV/m
INFOMAP 260 E46	503112	INVERCARGILL AIRPORT	46 dBµV/m
INFOMAP 260 E45	483420	WINTON SCHOOL	25 dBµV/m

(b) Expiry date of this licence: 30 August 2015

(c) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

The maximum permitted interfering signals above shall be measured at a height of 10 metres above ground level.

The tolerance of the characteristic frequency shall be  $\pm 500$  Hz.

The rightholder shall transmit a video signal conforming to the Phase Alternating Line (PAL) System B standard as described in ITU-R Report 624-4.

The rightholder may transmit a signal conforming to the NICAM 728 standard (NICAM transmission).

3 Frequency particulars:

(a) Frequency: 182.237000 MHz

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50 dBW at 166.475000 MHz to -11 dBW at 170.975000 MHz.  
 -11 dBW at 170.975000 MHz to -11 dBW at 177.987000 MHz.  
 -11 dBW at 177.987000 MHz to 19 dBW at 180.987000 MHz.

(ii) Limits applying to frequencies above the frequency:

29 dBW at 187.987000 MHz to 29 dBW at 188.347000 MHz.  
 19 dBW at 188.347000 MHz to -11 dBW at 190.987000 MHz.  
 -11 dBW at 190.987000 MHz to -11 dBW at 233.025000 MHz.  
 -11 dBW at 233.025000 MHz to -50 dBW at 237.525000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$P = A + (B - A)(F - X)/(Y - X) \text{ for all frequency sectors,}$$

where:

P = power (dBW) at any frequency F between defined limits X and Y

A = power (dBW) at lower frequency limit X

B = power (dBW) at upper frequency limit Y

X = lower frequency limit (MHz)

Y = upper frequency limit (MHz)

F = frequency (MHz) at which power P is to be determined

$X < F < Y$

(c) Day on which right to transmit on frequency commences: 15 September 1996

(d) Day on which right to transmit on frequency expires: 30 August 2015

## SCHEDULE

1 Particulars of transmitter to which this licence relates:

(a) Location of transmitter:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 E46	578331	FOREST HILLS	203 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 49 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 5.75 MHz above the frequencies to which this licence relates
- Not more than 1.25 MHz below the frequencies to which this licence relates

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2EHF

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 090 degrees:	22 dBW
Over 090 degrees up to 220 degrees:	49 dBW
Over 220 degrees up to 300 degrees:	39 dBW
Over 300 degrees up to 360 degrees:	22 dBW

(f) Antenna polarisation: Horizontal

(g) Antenna height: 15 metres above ground level

2 Other particulars:

(a) Receive Coverage Locations and associated Maximum Permitted Interfering Signals

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Co-channel Maximum Permitted Interfering Signal Level</u>
INFOMAP 260 F46	849245	EDENDALE SCHOOL	24 dB $\mu$ V/m
INFOMAP 260 E46	503112	INVERCARGILL AIRPORT	42 dB $\mu$ V/m
INFOMAP 260 E45	483420	WINTON SCHOOL	26 dB $\mu$ V/m

(b) Expiry date of this licence: 30 August 2015

(c) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

The maximum permitted interfering signals above shall be measured at a height of 10 metres above ground level.

The tolerance of the characteristic frequency shall be  $\pm 500$  Hz.

The rightholder shall transmit a video signal conforming to the Phase Alternating Line (PAL) System B standard as described in ITU-R Report 624-4.

The rightholder may transmit a signal conforming to the NICAM 728 standard (NICAM transmission).

3 Frequency particulars:

(a) Frequency: 210.237000 MHz

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50 dBW at 166.475000 MHz to -11 dBW at 170.975000 MHz.  
-11 dBW at 170.975000 MHz to -11 dBW at 205.987000 MHz.  
-11 dBW at 205.987000 MHz to 19 dBW at 208.987000 MHz.

(ii) Limits applying to frequencies above the frequency:

29 dBW at 215.987000 MHz to 29 dBW at 216.347000 MHz.  
19 dBW at 216.347000 MHz to -11 dBW at 218.987000 MHz.  
-11 dBW at 218.987000 MHz to -11 dBW at 233.025000 MHz.  
-11 dBW at 233.025000 MHz to -50 dBW at 237.525000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$P = A + (B - A)(F - X)/(Y - X) \text{ for all frequency sectors,}$$

where:

P = power (dBW) at any frequency F between defined limits X and Y

A = power (dBW) at lower frequency limit X

B = power (dBW) at upper frequency limit Y

X = lower frequency limit (MHz)

Y = upper frequency limit (MHz)

F = frequency (MHz) at which power P is to be determined

$X < F < Y$

(c) Day on which right to transmit on frequency commences: 15 September 1996

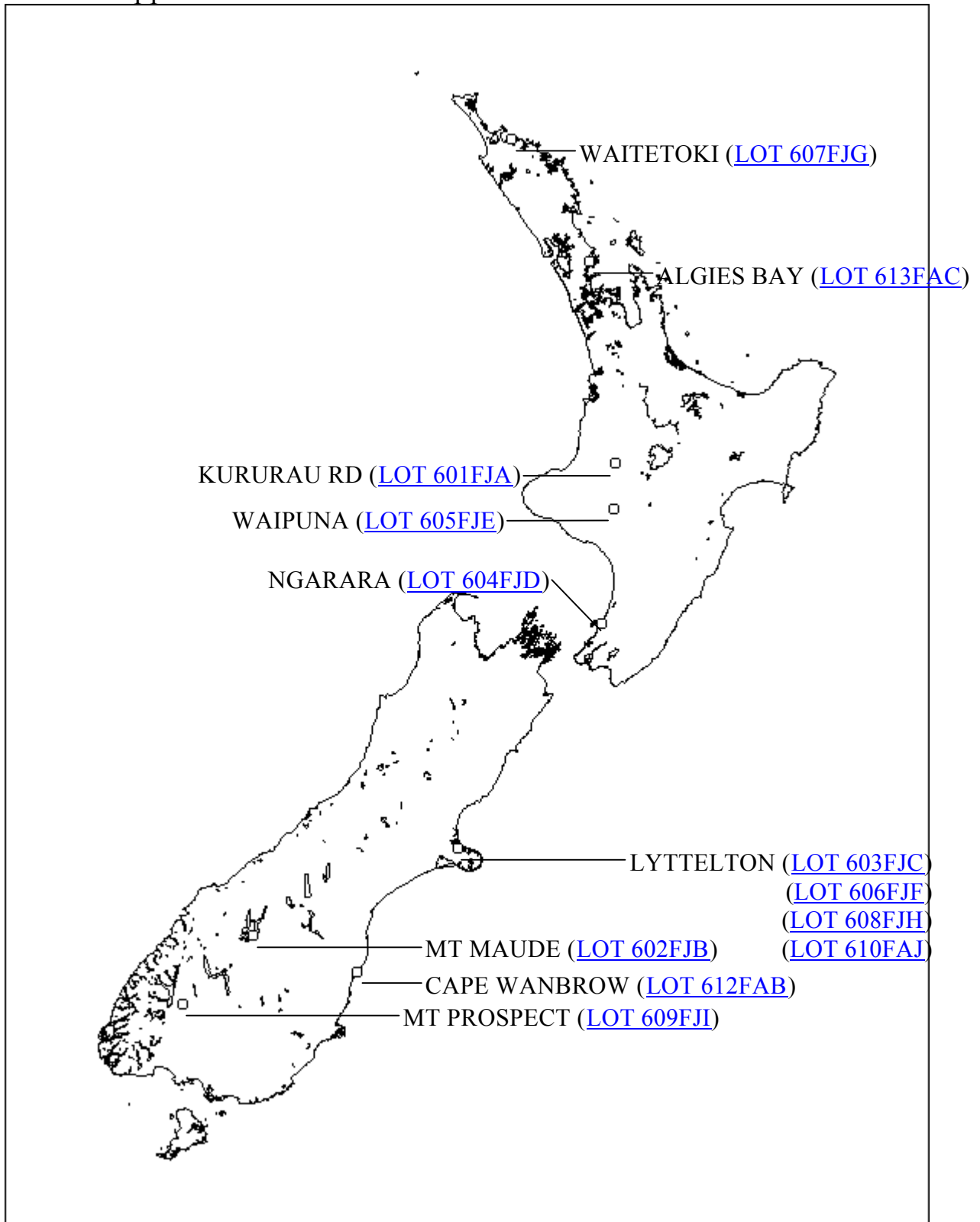
(d) Day on which right to transmit on frequency expires: 30 August 2015

## SIXTH SCHEDULE

### IMPORTANT INFORMATION

- 1 There is a total of 13 lots (referenced 601FJA to 613FAC) offered for auction in this Sixth Schedule. Each lot is a single licence suitable for UHF Television broadcasting
- 2 Terms and abbreviations used in lot descriptions have the following meanings:
  - Location is specified in INFOMAP 260 1:50,000 series maps.
  - Receive coverage locations are specified in INFOMAP 260 1:50,000 series maps.
  - Class of emission is given in terms of emission designations in Article 4 of the International Radio Regulations and ITU-R Recommendations
  - dBW means decibels with reference to 1 watt.
  - eirp means equivalent isotropically radiated power as defined in section 2 of the Radiocommunications Act 1989.
  - dB $\mu$ V/m means a field strength intensity in decibels with reference to 1 microvolt per metre. Field strengths are measured in accordance with the Recommendations and Reports of the ITU-R.
- 3 The successful bidder in relation to each lot will be granted, upon payment in accordance with the First Schedule above, a single registrable instrument that upon registration will authorise the bidder to transmit in accordance with the specifications set out in relation to the relevant lot and the general provisions specified on the following pages. Prospective bidders should thoroughly familiarise themselves with the Radiocommunications Act 1989. This offer, and all rights granted hereunder are subject to that Act.

Approximate locations referred to in the Sixth Schedule.



## Index to Sixth Schedule.

<u>LOT</u>	<u>LOCATION</u>	<u>FREQUENCY</u>
<a href="#"><u>601FJA</u></a>	KURURAU RD	527.250000 MHz
<a href="#"><u>602FJB</u></a>	MT MAUDE	551.250000 MHz
<a href="#"><u>603FJC</u></a>	LYTTELTON	567.250000 MHz
<a href="#"><u>604FJD</u></a>	NGARARA	647.250000 MHz
<a href="#"><u>605EJE</u></a>	WAIPUNA	647.250000 MHz
<a href="#"><u>606FJF</u></a>	LYTTELTON	663.250000 MHz
<a href="#"><u>607FJG</u></a>	WAITETOKI	671.250000 MHz
<a href="#"><u>608FJH</u></a>	LYTTELTON	695.250000 MHz
<a href="#"><u>609FJI</u></a>	MT PROSPECT	711.250000 MHz
<a href="#"><u>610FAJ</u></a>	LYTTELTON	727.250000 MHz
<a href="#"><u>611FAA</u></a>	LYTTELTON	759.250000 MHz
<a href="#"><u>612FAB</u></a>	CAPE WANBROW	767.250000 MHz
<a href="#"><u>613FAC</u></a>	ALGIES BAY	783.250000 MHz

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	S18 014553	KURURAU RD	528 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 26.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	020 degrees:	20.0 dBW.
Over 020 degrees up to	345 degrees:	26.0 dBW.
Over 345 degrees up to	360 degrees:	20.0 dBW.

(f) Antenna polarisation: Horizontal

(g) Antenna height: 10 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	S18 103554	Motor Camp RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 20 dB $\mu$ V/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 20 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 28 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 527.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.

-43.0 dBW at 513.000000 MHz to -43.0 dBW at 521.000000 MHz.

-43.0 dBW at 521.000000 MHz to -4.0 dBW at 526.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-4.0 dBW at 534.000000 MHz to -43.0 dBW at 537.000000 MHz.

-4.0 dBW at 537.000000 MHz to -4.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	G40 100141	MT MAUDE	915 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 29.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 29.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 30 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	G40 149153	Muir's Road, Lake Hawea RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 34 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 34 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 42 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 551.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.

-43.0 dBW at 513.000000 MHz to -43.0 dBW at 545.000000 MHz.

-43.0 dBW at 545.000000 MHz to -1.0 dBW at 550.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-1.0 dBW at 558.000000 MHz to -43.0 dBW at 561.000000 MHz.

-1.0 dBW at 561.000000 MHz to -1.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
	INFOMAP 260 M36 873331		LYTTELTON
	Above Sea Level		4 m

(b) Maximum power of emissions permitted under this licence: 25.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relate s.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	020 degrees:	25.0 dBW.
Over 020 degrees up to	290 degrees:	18.0 dBW.
Over 290 degrees up to	360 degrees:	25.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 30 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
	INFOMAP 260 M36 872343	Cnr Ross Tce & Selwyn Pde RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 35 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 35 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 43 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 567.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.

-43.0 dBW at 513.000000 MHz to -43.0 dBW at 561.000000 MHz.

-43.0 dBW at 561.000000 MHz to -5.0 dBW at 566.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-5.0 dBW at 574.000000 MHz to -43.0 dBW at 577.000000 MHz.

-5.0 dBW at 577.000000 MHz to -5.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 R26	831374	NGARARA	30 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 36.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	010 degrees:	6.0 dBW.
Over 010 degrees up to	070 degrees:	26.0 dBW.
Over 070 degrees up to	140 degrees:	31.0 dBW.
Over 140 degrees up to	190 degrees:	34.0 dBW.
Over 190 degrees up to	245 degrees:	36.0 dBW.
Over 245 degrees up to	275 degrees:	33.0 dBW.
Over 275 degrees up to	350 degrees:	26.0 dBW.
Over 350 degrees up to	360 degrees:	6.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 37 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 R26	811359	Waikanae RCL
INFOMAP 260 R26	837396	Pekapeka RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 27 dB $\mu$ V/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 27 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 35 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 647.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.

-43.0 dBW at 513.000000 MHz to -43.0 dBW at 641.000000 MHz.

-43.0 dBW at 641.000000 MHz to 6.0 dBW at 646.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

6.0 dBW at 654.000000 MHz to -43.0 dBW at 657.000000 MHz.

6.0 dBW at 657.000000 MHz to 6.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260	S20 992916	WAIPUNA	749 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 26.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 26.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 10 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260	S20 065947	Raetihi Baths RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 25 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 25 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 33 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 647.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.

-43.0 dBW at 513.000000 MHz to -43.0 dBW at 641.000000 MHz.

-43.0 dBW at 641.000000 MHz to -4.0 dBW at 646.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-4.0 dBW at 654.000000 MHz to -43.0 dBW at 657.000000 MHz.

-4.0 dBW at 657.000000 MHz to -4.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
	INFOMAP 260 M36 873331	LYTTELTON	4 m
Above Sea Level			

(b) Maximum power of emissions permitted under this licence: 25.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	020 degrees:	25.0 dBW.
Over 020 degrees up to	290 degrees:	18.0 dBW.
Over 290 degrees up to	360 degrees:	25.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 30 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 M36 872343		Cnr Ross Tce & Selwyn Pde RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 35 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 35 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 43 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 663.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.  
 -43.0 dBW at 513.000000 MHz to -43.0 dBW at 657.000000 MHz.  
 -43.0 dBW at 657.000000 MHz to -5.0 dBW at 662.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-5.0 dBW at 670.000000 MHz to -43.0 dBW at 673.000000 MHz.  
 -5.0 dBW at 673.000000 MHz to -5.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 004	601934	WAITETOKI	105 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 25.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 25.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 10 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 004	546900	Cable Bay RCL
INFOMAP 260 004	458951	Tokerau Beach RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 25 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 25 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 33 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 671.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.  
 -43.0 dBW at 513.000000 MHz to -43.0 dBW at 665.000000 MHz.  
 -43.0 dBW at 665.000000 MHz to -5.0 dBW at 670.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-5.0 dBW at 678.000000 MHz to -43.0 dBW at 681.000000 MHz.  
 -5.0 dBW at 681.000000 MHz to -5.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
	INFOMAP 260 M36 873331		LYTTELTON
	Above Sea Level		4 m

(b) Maximum power of emissions permitted under this licence: 25.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	020 degrees:	25.0 dBW.
Over 020 degrees up to	290 degrees:	18.0 dBW.
Over 290 degrees up to	360 degrees:	25.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 30 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
	INFOMAP 260 M36 872343	Cnr Ross Tce & Selwyn Pde RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 35 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 35 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 43 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 695.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.

-43.0 dBW at 513.000000 MHz to -43.0 dBW at 689.000000 MHz.

-43.0 dBW at 689.000000 MHz to -5.0 dBW at 694.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-5.0 dBW at 702.000000 MHz to -43.0 dBW at 705.000000 MHz.

-5.0 dBW at 705.000000 MHz to -5.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 D43	149207	MT PROSPECT	969 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 33.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to 360 degrees: 33.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 33 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 D43	959200	Te Anau Sportsground RCL
INFOMAP 260 D43	902027	Manapouri Camping Ground RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 25 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 25 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 33 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 711.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.

-43.0 dBW at 513.000000 MHz to -43.0 dBW at 705.000000 MHz.

-43.0 dBW at 705.000000 MHz to 3.0 dBW at 710.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

3.0 dBW at 718.000000 MHz to -43.0 dBW at 721.000000 MHz.

3.0 dBW at 721.000000 MHz to 3.0 dBW at 809.000 000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
	INFOMAP 260 M36 873331		LYTTELTON
	Above Sea Level		4 m

(b) Maximum power of emissions permitted under this licence: 25.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	020 degrees:	25.0 dBW.
Over 020 degrees up to	290 degrees:	18.0 dBW.
Over 290 degrees up to	360 degrees:	25.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 30 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
	INFOMAP 260 M36 872343	Cnr Ross Tce & Selwyn Pde RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 35 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 35 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 43 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 727.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.

-43.0 dBW at 513.000000 MHz to -43.0 dBW at 721.000000 MHz.

-43.0 dBW at 721.000000 MHz to -5.0 dBW at 726.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-5.0 dBW at 734.000000 MHz to -43.0 dBW at 737.000000 MHz.

-5.0 dBW at 737.000000 MHz to -5.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
	INFOMAP 260 M36 873331		LYTTELTON
	Above Sea Level		4 m

(b) Maximum power of emissions permitted under this licence: 25.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.
- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	020 degrees:	25.0 dBW.
Over 020 degrees up to	290 degrees:	18.0 dBW.
Over 290 degrees up to	360 degrees:	25.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 30 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
	INFOMAP 260 M36 872343	Cnr Ross Tce & Selwyn Pde RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 35 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 35 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 43 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 759.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.  
 -43.0 dBW at 513.000000 MHz to -43.0 dBW at 753.000000 MHz.  
 -43.0 dBW at 753.000000 MHz to -5.0 dBW at 758.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-5.0 dBW at 766.000000 MHz to -43.0 dBW at 769.000000 MHz.  
 -5.0 dBW at 769.000000 MHz to -5.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 J41 504639	CAPE WANBROW		120 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 24.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.

- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	050 degrees:	24.0 dBW.
Over 050 degrees up to	080 degrees:	21.0 dBW.
Over 080 degrees up to	310 degrees:	14.0 dBW.
Over 310 degrees up to	340 degrees:	21.0 dBW.
Over 340 degrees up to	360 degrees:	24.0 dBW.

(f) Antenna polarisation: Vertical

(g) Antenna height: 10 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 J41 512674		Oamaru Showgrounds RCL
INFOMAP 260 J41 552725		Pukeuri RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 52 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 52 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 60 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 767.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.

-43.0 dBW at 513.000000 MHz to -43.0 dBW at 761.000000 MHz.

-43.0 dBW at 761.000000 MHz to -6.0 dBW at 766.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-6.0 dBW at 774.000000 MHz to -43.0 dBW at 777.000000 MHz.

-6.0 dBW at 777.000000 MHz to -6.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

SCHEDULE

1. Particulars of transmitters to which this licence relates:

(a) Location of transmitter or transmitters:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>	<u>Altitude</u>
INFOMAP 260 R09	665273	ALGIES BAY	99 m Above Sea Level

(b) Maximum power of emissions permitted under this licence: 27.0 dBW (e.i.r.p.)

(c) Maximum bandwidth of emissions permitted under this licence:

- Not more than 6.75 MHz above the frequencies to which this licence relates.

- Not more than 1.25 MHz below the frequencies to which this licence relates.

(d) Designation of emissions permitted under this licence:

6M25C3F/750KF3EGN/500KG2E

(e) Horizontal radiation pattern of antenna: [maximum e.i.r.p. (in dBW) per sector (in degrees relative to true North)]

000 degrees up to	030 degrees:	27.0 dBW.
Over 030 degrees up to	160 degrees:	21.0 dBW.
Over 160 degrees up to	360 degrees:	27.0 dBW.

(f) Antenna polarisation: Horizontal

(g) Antenna height: 10 metres above ground level

2. Other particulars:

(a) Receive coverage location or locations:

<u>Map</u>	<u>Grid Reference</u>	<u>Site Name</u>
INFOMAP 260 R09	665278	Martins Bay Rd RCL
INFOMAP 260 R09	651300	Snells Beach RCL

(b) Maximum permitted interfering signals applying to receive coverage location or locations (measured at a height of 10 metres above ground level):

Co-channel: 46 dBµV/m.

(c) Expiry date of this licence: 11 March 2010.

(d) Conditions applying to the exercise of the rightholder's rights under this licence:

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 Secretary of Commerce.

Vision and sound frequencies shall be maintained within  $\pm 500$  Hz of the nominal carrier frequency.

The maximum permitted interfering signals in clause 2(b) when measured with a horizontally polarized antenna are:

Co-channel: 46 dB $\mu$ V/m.

The maximum permitted interfering signals in clause 2(b) when measured with a vertically polarized antenna are:

Co-channel: 54 dB $\mu$ V/m.

3. Frequency particulars:

(a) Frequency 783.250000 MHz:

(b) Unwanted emission limits applying to emissions from the transmitter (expressed as maximum e.i.r.p. (in dBW) of such emissions):

(i) Limits applying to frequencies below the frequency:

-50.0 dBW at 510.000000 MHz to -43.0 dBW at 513.000000 MHz.

-43.0 dBW at 513.000000 MHz to -43.0 dBW at 777.000000 MHz.

-43.0 dBW at 777.000000 MHz to -3.0 dBW at 782.000000 MHz.

(ii) Limits applying to frequencies above the frequency:

-3.0 dBW at 790.000000 MHz to -43.0 dBW at 793.000000 MHz.

-3.0 dBW at 793.000000 MHz to -3.0 dBW at 809.000000 MHz.

[Note: The unwanted emission limits applicable to frequencies within each specified range shall be determined in accordance with the following formula:

$$y = mx + C \quad \text{where - } y = \text{dBW } x = \text{MHz } m = \frac{dy}{dx}$$

C = the value of y where x = 0 (the y intercept).]

(c) Day on which right to transmit on frequency commences: 15 September 1996.

(d) Day on which right to transmit on frequency expires: 11 March 2010.

## APPENDIX ONE

### GENERAL INFORMATION

This auction is based on the "simultaneous multiple round ascending bid" format. "Simultaneous Multiple Round Ascending Bid Auctions" are a recent development based on "Game Theory". An overview of this auction follows :

- Lots will be offered in two separate groups (VHF - UHF television frequencies and AM - FM sound broadcasting frequencies).
- All lots in a group will be auctioned simultaneously but the two groups will be offered separately in accordance with the time schedule provided by the Auction Manager (see para. 10 of the First Schedule).
- A reserve price of \$500 plus GST applies for each individual lot.
- All "winning" bids will be provisional until the conditions of paragraphs 4, 25 and 31 of the First Schedule are met.
- The auction will proceed in clearly defined rounds of bidding.
- At the close of each round, the value of the highest bid for each lot will be advised (see para.13 of the First Schedule) to all registered bidders. This information may also be published on the Internet (see para. 37 of the First Schedule).
- Once a bid is announced, as above, as the highest value bid for a given lot in a round, that bid will automatically carry forward into following rounds of bidding as the "highest current bid" for that lot until such time that it is exceeded during a subsequent round of bidding or is declared the provisionally winning bid.
- Highest current bids cannot be withdrawn.
- The minimum acceptable bid value for each individual lot in a new round of bidding is the value of the highest bid received for that individual lot in the previous round of the auction.
- When no bid is received for any lot in a round, the auction may be declared finished and the highest current bid for each lot is declared the provisionally winning bid for that lot.
- Bids must be placed by means of facsimile.
- No deposit is required.
- A bidder is not required to bid in every round, and may bid on different lots in different rounds.
- Bidders may bid for as many lots as they wish.