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# REPORT



**TO** Hearing Commissioners

**ON** 24<sup>th</sup> and 27<sup>th</sup> November 2006

**FROM** Environmental Policy Advisor

**SUBJECT** *Proposed Plan Change 18 Network Utilities and Designations*

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## Introduction

### Terms of Reference

This report outlines the decisions sought by the submitters in respect to Proposed Plan Change 18 – Network Utilities and Designations.

The comments and preliminary recommendations in this report are intended to assist not only the Hearing's Commissioners, but also those persons who lodged the submissions. The purpose of this report is to provide preliminary recommendations on the submissions and further submissions. As the submitters are yet to speak at the hearing, any conclusions and recommendations within this report must be qualified to apply only to the written submissions received and to any further clarification received from the submitters in advance of the hearing.

The Hearing's Commissioners have been given the role of considering the submissions and making Council's decision on the plan change. The decision will be released in writing after the hearing and sent to submitters. Submitters will be entitled to appeal to the Environment Court if they are not satisfied with the decision.

### Statutory Requirements

Plan Change 18 was publicly notified on both 6<sup>th</sup> April and 1 June 2006. Submissions opened on 1 June and closed on 7 July 2006. The summary of submissions was publicly notified on 31 August 2006, with a closing date for further submissions of 29 September 2006.

The names of the submitters, together with the decisions recommended in respect of Proposed Plan Change 18, are listed in Attachment 4. A copy of every submission is contained in the Committee Agenda and will be available to the public at the hearing.

No late submissions were received.

### Background to the Plan change.

Since the introduction of the District Plan there have been changes that affect the provision of utilities. The evolution of new technology has had the effect of changing the way some utilities can be provided, and new services have become available. Changes in regulations and standards have also occurred. These changes have impacted the veracity of the utilities provisions and some of the provisions need to be amended in order to ensure that improved environmental management results from the administration of this section of the Plan.

In preparing the Plan change the following steps have been taken;

- Consultation with the major utility companies in order to determine any areas of concern with the current utilities provisions of the District Plan.
- Consultation with the asset management divisions of Council to determine whether there are any desired outcomes that are not currently being achieved and where it is perceived the utilities provisions need improvement, particularly from an asset management perspective.
- Consultation with Community Boards to find out what issues are troubling from the community perspective.
- Research into the issues identified has taken place, including the relevant literature and the approaches taken by other Territorial Authorities. Industry groups such as the National Radiation Laboratory and the Auckland Utility Operators Group have been consulted.
- A consultant with particular experience in the Telecommunications industry has provided advice on the merits of the different options.
- Submitters concerns with the plan change have been taken into account and a revised set of provisions has been prepared to assist the Hearing's Commissioners with their determination.

### **Consideration of Submissions and Further Submissions**

The discussion that follows is arranged by topic. Each section has a table that shows submitters, the submission made, and any further submissions that support or oppose the original submission. A discussion of the submissions and the issues follows, along with a summary of the recommendations made. See the table of contents below for the topics addressed. Note that the page numbers refer to those at the bottom of each page.

The recommended changes that have been made to the proposed plan change are summarised in Attachment 1. In the original proposed plan change the amendments to sections other than the Utilities and Designations section (Chapter 14) are shown in marked up text. Where changes have been recommended as a result of submissions, the recommended changes are shown in marked up text and italicised to differentiate them from the original marked up text.

There are a large number of 'pro forma' submissions to this plan change. Most of those have made 53 submissions on the plan change. It is impractical to put all the names of each submitter on these points in the discussion that follows, so those that have submitted on each of the pro forma points are summarised in Attachment 2. Where the submitters are shown as, for example, A1 or A42, or 'FS Group', refer to Attachment 2.

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# 1 Discussion of Submissions

## 1.1 Miscellaneous

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Takapuna Community Board	29/1	Support Changes 14.1 to 14.7 generally.	<b>Oppose</b> 29-1x243 Vector Ltd
Bob Leenstra	233/1	Support all proposals in this plan change.	<b>Oppose</b> 233-1x466 M D Newman <b>Oppose</b> 233-1x300 Vector Ltd
Robyn and John Spooner	234/1	Support all proposals in this plan change	<b>Oppose</b> 234-1x299 Vector Ltd <b>Oppose</b> 234-1x463 MD Newman
Greenhithe Residents, Ratepayers and Community Hall Association Inc	230/1	Support proposed plan change as it applies to the Greenhithe Structure Plan zone, and specifically in respect of the following matters:- <ul style="list-style-type: none"> <li>Additional control over TV aerials, antennas and satellite dishes which are unusually large, numerous or in undesirable locations</li> <li>Undergrounding of electricity and telephone lines in new developments (and all existing lines as well)</li> </ul>	<b>Oppose</b> 230-1x301 Vector Ltd <b>Oppose</b> 230-1x465 M D Newman <b>Oppose in Part</b> 230-1x429 Broadcast Communications Ltd
Various submitters	A16	Oppose Rule 14.4.2 as it sets out controls on network utilities.	<b>Support</b> 26-24x689, 64-16x1108 M D Newman
Richard Kane	19/1	Oppose Council getting involved in the appearance of utilities, as it will increase the costs to the utility owners, resulting in increased charges and underinvestment in infrastructure.	
Kurt Marquart	54/2	Include a sunset clause that requires utilities to remove structures at the end of their useful life.	<b>Oppose</b> 54-2x294 Vector Ltd
Kurt Marquart	54/4	Provide for health effects of utilities on unhealthy people.	<b>Oppose</b> 54-4x296 Vector Ltd <b>Oppose</b> 54-4x521 Transpower New Zealand Ltd
Woosh Wireless Ltd	40/1	All changes sought in this submission include the need to make changes as necessary to consequential provisions to give effect to the changes sought.	

### 1.1.1 Discussion

Submissions 29/1, 233/1, 234/1 and 230/1 are accepted in part only, as some changes have been made in accordance with the submissions on the plan change.

Submission A16 opposes the rules set out in Activity Table 14.1 as it sets out controls on network utilities. To promote sustainable management it is considered that controls on network utilities are required. However some rules have been changed as a result of submissions, so this submission is accepted in part. Similarly, submission 19/1 suggests that Council should not regulate the appearance of utilities. The utilitarian appearance of many utilities means that they have the potential to adversely affect amenity. This submission is rejected.

Submission 54/2 requests that all utilities be removed at the end of their useful life. In this respect, Rule 14.5.2.3 requires minor utility structures in the road reserve to be removed when they are redundant or obsolete. It is also expected that structures such as telephone poles will be removed when lines are undergrounded. However where a pole has reached the end of its useful life but the line is not being undergrounded, it will be replaced by a utility operator as it has existing use rights. In these situations it is not feasible for council to require the utilities to be retired. Submission 54/2 is accepted in part.

Submission 54/4 concerns health effects. The plan change has issue statements, objectives, policies and rules that all deal with the effect of utilities on people's health. It is considered that these provisions

adequately protect people of all levels of health. The submission is accepted, although no recommendations for change are made.

As requested by submission 40/1, all consequential amendments that are required as a result of amendments to the proposed Plan change have been made.

### 1.1.2 Recommendation

Submissions 29/1, 233/1, 234/1 and 230/1 are accepted. Further submissions 29-1x243, 233-1x466, 233-1x300, 234-1x299, 234-1x463, 230-1x301, 230-1x465 are rejected. Submission 230-1x249 is accepted in part.

Submission A16 and further submissions 26-24x689 and 64-16x1108 are accepted in part.

Submission 54/2 is accepted in part and further submission 54-2x294 is rejected.

Submission 54/4 is accepted and further submissions 54-4x296 and 54-4x521 are rejected.

Submission 40/1 is accepted.

## 1.2 Section 14.1 Introduction

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Vector Ltd	35/1	Support and retain the following statement in S 14.1 Introduction; <i>'...recognition should be given to the essential role that these networks play and the services they provide in the functioning of the city.'</i>  Amend the rest of the Introduction section to better recognise the necessity and importance of utilities, in a manner satisfactory to Vector.	

### 1.2.1 Discussion

Submission 35/1 supports retaining the part of the Introduction discussing the essential role of utilities and requests that the Introduction be amended to further support this statement. The remainder of the section moves on from the essential role of utilities, to deal with the negative effects of providing utilities and what instruments are used to mitigate those negative effects. It is considered that the discussion of the positive and negative effects of utilities is equally balanced and no amendment is required.

### 1.2.2 Recommendation

Submission 35/1 is accepted in part. The statement is retained but no further amendments are recommended.

## 1.3 Section 14.2 Issues

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Transpower	34/1	Insert new issue statement and explanation concerning nationally significant infrastructure in S 14.2 as follows;  <b><u>'Large-scale, nationally significant infrastructure, such as the National Grid, has adverse effects, which cannot always be avoided, remedied or mitigated.'</u></b> <i>The National Grid consists of large-scale structures, and a linear inter-regional network. Its nature and scale deems avoiding, remedying or mitigating its adverse effects considerably difficult. For example, the height of structures makes screening impracticable; there are practical limitations or constraints relating to the location of the connection points; there are minimum safety clearances that have to be maintained; and the fundamental requirements of support structures reduce mitigation options in terms of modifications to form or profile.'</i>	Support 34-1x258 Vector Ltd
Transpower	34/2	Insert new issue statement and explanation concerning existing infrastructure corridors in S 14.2 as follows;  <b><u>'Significant infrastructure corridors need to be protected and provided for to enable infrastructure to meet the ongoing demands and requirements of the City.'</u></b> <i>Significant infrastructure corridors, such as along existing high voltage electricity transmission lines, are essential to the functioning of a modern city. These corridors need to be able to function in a way that can meet the ongoing demands for energy. Infrastructure within these corridors is recognised as dynamic and it is recognised that they may need to be upgraded as required to ensure supply can meet the demands of North Shore and surrounding regions.'</i>	Support 34-2x259 Vector Ltd

Vector Ltd	35/2	Support Issue 14.2.2	
Vector Ltd	35/3	Oppose Issues 14.2.1 and 14.2.3 as they focus too greatly on the adverse effects of utilities and do not appropriately recognise the importance of providing for utilities. Amend the Issues section to Vector's satisfaction, for example by including further Issue statements relating to; <ul style="list-style-type: none"> <li>• How to provide for the efficient development, operation and maintenance of public works and network utilities; and</li> <li>• How to coordinate the provision of public works and network utilities with the demands for new or intensified infrastructure</li> </ul>	
Kurt Marquart	54/1	Include the effect of shadowing, eg in 14.2.1	<b>Oppose</b> 54-1x293 Vector Ltd

### 1.3.1 Discussion

Submission 34/1 requests the addition of a new issue statement to recognise nationally significant infrastructure and the reduced ability to avoid, remedy or mitigate its adverse effects when its structures are of a significant size. It is considered some of the adverse effects of nationally significant infrastructure such as the National Grid can be avoided, remedied or mitigated, as it can be placed underground. Council would prefer this infrastructure to be placed underground, so including an issue statement that the national grid has effects that cannot be mitigated is, in Council's opinion, inappropriate. The submission is rejected.

Submission 34/2 requests the addition of a new issue statement to recognise significant infrastructure corridors. It is considered that the current issue statements accurately reflect the issues that face the North Shore community in respect of the provision of utilities. Issue 14.2.2 clearly recognises the importance of utilities and that 'failure to facilitate the provision of an adequate network of network utilities has the potential to undermine this quality of life'. While this does not specifically mention significant infrastructure corridors, the essential nature of utilities in general is recognised. Utility corridors are not considered important enough to warrant a separate issue statement, but are dealt with in the policy section, in policy 8. The submission is rejected.

Submission 35/2 is accepted. It is also considered appropriate to move issue statement 14.2.2 to 14.2.1, as this reflects the order of the objectives' themes and attains a consistency in approach. S35/3 requests further issue statements emphasising the importance of providing network utilities. As discussed above, it is considered that the current issue statements accurately reflect the issues that face the North Shore community in respect of the provision of utilities. Issue 14.2.2 does recognise the importance of utilities, and issues 14.2.1 and 14.2.3 recognise the adverse effects that may arise from the provision of utilities. It is not considered from a sustainable management perspective that the issues suggested are existing or potential problems that are serious enough to warrant their own issue statement. These matters are dealt with in the policy section. The submission is rejected.

Submission 54/1 requests that shadowing be included in Issue 14.2.1. This is not something that would normally be included in an issue statement as it is quite a specific adverse effect. It comes under the subject of amenity (which is included in the explanation to the issue statement) and is more appropriately dealt with at the policy level. The submission is rejected.

### 1.3.2 Recommendation

Submission 34/1, 34/2 and further submissions 34-1x258 and 34-2x259 are rejected.

Submission 35/2 is accepted.

Submission 35/3 is rejected.

Submission 54/1 is rejected and 54-1x293 is accepted.

## 1.4 Section 14.3 Objectives

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Vector Ltd	35/4	Support and retain Objective 14.3.1.	
Shirley Squire	28/2	Support objectives 14.3.1 and 14.3.2	<b>Oppose</b> 28-2x242 Vector Ltd
Woosh Wireless Ltd	40/2	Support and retain objectives 14.3.1 - 14.3.3	<b>Support</b> 40-2x290 Vector Ltd

Transpower	34/3	Insert new objective concerning nationally significant infrastructure in S14.3 as follows; <i>'To recognise the operational constraints in the ability to avoid, remedy or mitigate adverse effects arising from the establishment, maintenance and upgrading of large-scale, nationally significant infrastructure.'</i>	<b>Support</b> 34-3x260 Vector Ltd
Transpower	34/4	Insert new objective concerning nationally existing infrastructure corridors in S14.3 as follows; <i>'To recognise and provide for existing infrastructure corridors.'</i>	<b>Support</b> 34-4x261 Vector Ltd
Transpower	34/5	Amend objective 14.3.2 as follows; 'To avoid, remedy or mitigate as far as practicable, any adverse effects....'	<b>Support</b> 34-5x262 Vector Ltd
Vector Ltd	35/5	Oppose 14.3.2 and 14.3.3. Amend Objectives sections by amending these or including further objectives to Vector's satisfaction to; <ul style="list-style-type: none"> <li>• Ensure that public works and network utility operations are appropriately provided for and that, where possible, these facilities are dealt with on the same basis as other activities; and</li> <li>• Promote the efficient establishment and operation of public works and network utilities; and</li> <li>• Ensure that the adverse effects associated with the establishment and operation of public works and network utilities are avoided, remedied or mitigated.</li> </ul>	

### 1.4.1 Discussion

Submissions 35/4, 28/2 and 40/2 are accepted. However the numbering of the objectives (14.3.1-3) has been amended as the current number is confusing as it is also used elsewhere in the plan change.

Submission 34/3 recommends an objective to complement the issue statement suggested in submission 34/1. As explained in the discussion on that submission, some of the operational constraints of nationally significant infrastructure are not constraining enough to warrant a separate issue statement or objective. For this reason it is considered that this matter is more appropriately dealt with in the policy section, for example in policy 1. Submission 34/4 is also complementary to submission 34/2 and as discussed there, is more appropriately dealt with in the policy section, in particular policy 8. These submissions are rejected.

Submission 34/5 requests that objective 14.3.2 be amended by including the term 'as far as practicable'. As discussed under submission 34/6 in the following discussion on policies, the use of this phrase indicates that this objective will be subservient to other objectives. The objectives will not be balanced equally against each other, which is their intent. The submission is rejected.

Submission 35/5 opposes objectives 14.3.2 and 3, and recommends the inclusion of further objectives to better balance the needs of utility operators and the community. It is considered that the current objectives do promote sustainable management by balancing the competing objectives of the efficient establishment and operation of utilities with avoiding, remedying and mitigating the adverse effects of utilities. It is not necessary to qualify objectives 2 and 3 by reference to the importance of utilities, as these objectives will be balanced against objective 1 by decision makers. In any given situation, it is envisaged that weighing up the objectives as currently drafted will lead to outcomes that further the purpose of the Act. The submission also suggests that utilities should be dealt with on the same basis as other activities. This is not recommended as, due to their importance, in many cases utilities get preferential treatment, and this would remove the preferential treatment they receive. Most other activities do not have permission to locate in roads, build unusually high structures or adversely affect amenity in the way that utilities do. It is considered that no amendments are required and the submission is rejected.

### 1.4.2 Recommendation

Submissions 35/4, 28/2 and 40/2 and further submission 40-2x290 are accepted. Submission 28-2x242 is rejected.

Submissions 34/3, 34/4, 34/5 and further submission 34-3x260, 34-4x261 and 34-5x262 are rejected. Submission 35/5 is rejected.

## 1.5 Section 14.3.2 Policies

Submitter	No.	Summary of Decision Sought	Further Submitter/s
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Econet Wireless NZ Ltd	12/1	Oppose policies as they are too subjective and will introduce more risk, cost and time delay.	
Vector Ltd	35/7	Oppose Policies 14.3.2.2-11. Remove these policies and/or adopt Policies which, to Vector's satisfaction, expressly recognise the need to appropriately provide for utilities. Make any other necessary or consequential amendments to the Explanation and Reasons and Methods sections.	
Vector Ltd	35/6	Support and retain Policy 14.3.2.1.	
Woosh Wireless Ltd	40/3	Support and retain policy 14.3.2.1.	<b>Support</b> 40-3x291 Vector Ltd
Transit NZ	33/1	Support Policy 14.3.2 (2).	<b>Oppose</b> 33-1x256 Vector Ltd
Shirley Squire	28/2	Support policies 14.3.2, 3, 4 and 6.	
Transpower	34/6	Delete polices 4, 5 and 6 in S 14.3.2 and replace with the following policy; <u>'4. As far as practicable, and taking operational requirements into account, network utilities should be designed, sited, operated and maintained in such a way as to avoid, remedy or mitigate adverse effects on the amenity values of the area, including sites, buildings or areas of heritage and archaeological value, the landscape and streetscape.'</u>	<b>Support</b> 34-6x263Vector Ltd
Vector Ltd	35/9	Oppose Policy 14.3.2.5 and 14.3.2.6 as they are unnecessary and fall within other policies.	
Woosh Wireless Ltd	40/4	Delete 14.3.2.7 as it unduly restricts the placement of utilities on Reserve land.	<b>Support</b> 40-4x292 Vector Ltd
Woosh Wireless Ltd	40/5	Oppose policy 14.3.2.8 in part. Clarification is required as to what 'co-location of structures', the 'shared use of structures', and the 'use of existing network utility corridors' mean. Define these terms in S21.	
Transit NZ	33/2	Support in part Policy 14.3.2 (8). Amend policy to add the following; <u>'(c) Avoiding, remedying or mitigating any adverse effects, including those on other established or designated sites.'</u>	
Various submitters	A14	Oppose Policy 14.3.2.9 as it encourages locating aerials on buildings as opposed to masts	<b>Support</b> 26-22x687, 64-14x1106 M D Newman
Kenneth Bremner Huffadine	17/2	Support the Plan change's intention to encourage the location of aerials and antennas on buildings, and the location of antennas on streetlights or road signage. In residential areas the height of antennas should be restricted close to the existing streetlight height.	<b>Oppose</b> 17-2x464 M D Newman
East Coast Bays Coastal Protection Society	11/1	Ensure Policy 14.3.2 10 be enforced in the Long Bay Structure Plan area	<b>Oppose</b> 11-1x236 Vector Ltd
Transit NZ	33/3	Support Policy 14.3.2(10), and in particular the following; '(b) Encourage the undergrounding of above ground network utilities in the road reserve'.	<b>Oppose</b> 33-3x257 Vector Ltd
Vector Ltd	35/8	Oppose 14.3.2.10 as it is worded more in the nature of a Rule than a policy.	
Takapuna Community Board	29/2	Amend 14.3.2 (10) as follows to assist in reducing proliferation of over head utility wires; <i>To;(a) Require the undergrounding of electric and telecommunication lines in newly developing areas and for infill and redevelopment in established areas, and to <del>encourage</del> require these outcomes in established areas, especially when other street improvement works make this aesthetically desirable, and(b) Encourage Require the undergrounding of above ground network utilities in the road reserve.'</i>	<b>Oppose</b> 29-2x244 Vector Ltd <b>Oppose</b> 29-2x522 Transpower New Zealand Ltd
Transpower	34/7	Include new policy 14.3.2.10 concerning the protection and use of existing transmission line corridors as follows; <u>'10. Provide for the ongoing operational needs of network utility infrastructure by protecting existing transmission line corridors from encroachment, to ensure that electricity demands are met.'</u>	<b>Support</b> 34-7x264 Vector Ltd
Broadcast Communications Ltd	5/2	Oppose the current wording of Policy 14.3.2.11. Amend to add the words at the end of the policy; <u>'...and therefore the plan requires monitoring when emissions are greater than appropriate threshold limits'.</u>	

East Coast Bays Coastal Protection Society	11/2	Support Policy 14.3.2 11 and ensure that this policy is enforced in Long Bay.	<b>Oppose</b> 11-2x237 Vector Ltd
Various submitters	A15	Oppose Policy 14.3.2.11 as it tries to control the design and siting of equipment emitting radiofrequency radiation.	<b>Support</b> 26-23x688, 64-15x1107 M D Newman

### 1.5.1 Discussion

Submission 12/1 opposes policies 1-11 due to their subjectivity. It is considered that some degree of subjectivity in policies is unavoidable – if there is no discretion in the implementation in a policy, it will become a rule or a method. The policies alert a decision maker to what Council considers important when making a decision on a utilities application. The decision maker will have to decide what is reasonable in the circumstances, and the degree of adverse effects are by nature subjective. What one person sees as unreasonable in a particular situation may be acceptable to another. By considering the adverse effects of utilities the submission is correct that in many situations more risk, cost and time delay will be experienced by an applicant. However, it is Council’s opinion that it is necessary to have policies that encourage an applicant to avoid, remedy, or mitigate these adverse effects, as expressed in S5 (2)(c) of the RMA;

*‘In this Act, “sustainable management” means managing the use, development, and protection of natural and physical resources in a way, or at a rate, which enables people and communities to provide for their social, economic, and cultural wellbeing and for their health and safety while –...  
(c) Avoiding, remedying, or mitigating any adverse effects of activities on the environment.’*

Submission 12/1 is rejected.

Submission 35/7 argues that policies 2-11 are too heavily weighted towards controlling the adverse effects of utilities, rather than enabling them. Council accepts that utilities are important infrastructure needed by the city, yet it is considered that an appropriate balance between the needs of the community and network utility operators has been reached with the current policies. This is reflected in their structure. The first policy notes that operational and technical requirements of utilities are important. However, there is a need to avoid, remedy or mitigate their adverse effects, which policies 2-6 and 11 recognise. Policies 7-10 encourage the development of utilities in certain ways, again, to limit their adverse effects. While policies 2-11 attempt to regulate the development of utilities, they all accept that utilities do need to be provided. Submission 34/6 below accepts that policies 4, 5 and 6 can be amalgamated, but it is considered that the remainder of the policies do accurately promote the sustainable management of natural and physical resources. Submission 35/7 is accepted in part.

Submissions 35/6, 40/3 and 33/1 support policies 1 and 2. These submissions are accepted. Submission 28/2 supports policies 2,3,4 and 6. This submission is accepted in part as policy 6 has been incorporated into policy 4. See discussion below.

Submission 34/6 recommends the amalgamation of policies 4, 5 and 6 into one policy. As the submission suggests, aspects of these policies are repetitive and it is feasible to amalgamate them. This aspect of the submission is accepted and a revised policy is recommended in the attached changes. However, the first words of the suggested policy; *‘As far as practicable, and taking operational requirements into account,’* have not been included in the revised policy. Although policies provide guidance for decision makers, they will often conflict with each other and in these situations decision makers will weigh up the relevant policies. Where utilities activities are proposed their operational and technical requirements are taken into account in policy 1 and then weighed up against the respective effects in other policies. Including the suggested words above undermines the revised policy as it indicates that it is subservient to policy 1. It is considered that the policies should be given equal weight, hence these words are not included in the revised policy. Submission 34/6 is accepted in part.

Submission 35/9 opposes Policies 5 and 6. This submission is accepted in part, as the policies have been removed but not deleted as they have been incorporated in policy 4.

Submission 40/4 seeks the deletion of policy 7, which deals with the location of utilities on Reserve land. The submission notes that the policy restricts the opportunity to establish a city wide telecommunication utility network. Council considers that Reserves are not appropriate places in which to roll out telecommunication networks and the policy is intended to restrict the opportunity to locate utilities in reserves. It sets out the circumstances in which Council considers it might be appropriate for utilities to

locate on reserve land. It is also noted that the Council Policy Manual specifies that reserves are to be kept free from new or additional buildings and structures, allowing them only in the most exceptional circumstances (Council Policy Manual - Policy 2.8.4 – Buildings and Structures). This includes utilities. Submission 40/4 is rejected.

Submission 40/5 requests that terms in policy 8 be defined for clarity. It is considered that these terms are reasonably self evident, but more importantly, would not gain anything by being defined. Definitions may only serve to limit the ambit of these terms, especially at the policy level. The submission is rejected.

Submission 33/2 supports policy 8 provided a wording amendment is accepted. It is considered that this proposed amendment is already adequately covered under the current provisions. The adverse effects of co-location etc on other established or designated sites are part of 'any adverse effects' already contained in (c). They can also impact on technical and operational feasibility in (a), and can also form part of the cumulative effects in (b). The submission is rejected for these reasons.

Submission A14 opposes the aspect of policy 9 that encourages the location of aerials on buildings as opposed to masts. This policy is included as a building has more bulk than a mast in which to mitigate the visual effects of an aerial. For this reason, aerials should be located on buildings rather than masts where possible. The submission is rejected. Submission 17/2 supports this policy and is accepted.

Submission 11/1 requests that policy 10, with respect to above ground lines, be enforced in Long Bay. Implementation of the Plan change is outside the ambit of this report, but as Long Bay is a newly developing residential area and it is normal procedure that lines in new subdivisions are laid below ground, it is anticipated that the policy will be adhered to in this area. Submission 33/3 supports policy 10(b), and is accepted.

Submission 35/8 opposes policy 10 as it is worded more in the nature of a rule. In *Auckland Regional Council v North Shore City Council (CA 29/95)* it was noted that a policy may be either flexible or inflexible, either broad or narrow. A policy can include something highly specific. Whilst parts of policy 10 are quite specific, this does not mean it cannot be considered a policy. The submission is rejected.

Submission 29/2 requests an amendment to policy 10 to require the undergrounding of lines in established areas, and for above ground network utilities in the road reserve. It is not appropriate to require the undergrounding of lines in established areas as above ground lines that are already in existence have existing use rights. Council cannot require these structures to be undergrounded. Such undergrounding can only be encouraged and in any case Council would have to pay for the undergrounding. Many above ground network utilities cannot be undergrounded due to technical issues, and in some areas such as industrial business and rural zones, undergrounding is less crucial. It is considered that requiring the undergrounding of above ground network utilities in the road reserve is not called for. The submission is rejected.

34/7 requests that a new policy be inserted protecting the operational needs of existing transmission line corridors from encroachment. NZECP34:2001 provides for the protection of electric lines from encroachment and it is not considered that a policy in a district plan will provide more protection than this already does. The submission is rejected.

Submission 5/2 requests an addition to policy 11 to the effect that the threshold limits of standards concerning radiofrequency and electric and magnetic fields should be included in the policy. The policy as currently drafted is a general statement that network utilities should avoid, remedy, or mitigate adverse effects on the safety and health of communities. This includes all potential effects on health, not just radio frequency and electric and magnetic fields. As such, the policy is wider than just these matters. It is also not appropriate to limit the policy by reference to a standard as the standard is implemented using rules, and not at the policy level. Further discussion on the application of monitoring to radiofrequency emissions occurs further on in this document. It is noted also that the explanation and reasons section to which the submission refers deals with the methods section, and not with the section concerning policies. The submission is rejected.

Submission 11/2 requests that policy 11, with respect to electromagnetic fields, be enforced in Long Bay. Implementation of the Plan change is outside the ambit of this report, but it is intended that policy 11 will be implemented in a similar way as elsewhere in the North Shore.

Radiofrequency radiation has the potential to be hazardous to health. Consequently, policy 11 provides for the control of the design and siting of equipment emitting radiofrequency radiation, in order to avoid potential health effects. Submission A15 opposes this policy as it prevents experimentation in respect of amateur radio aerials and antennas. It is agreed that this may interfere with experimentation but it is considered that any experimentation that results in an arrangement of aerials or antennas that pose a risk to health and safety is not desirable. The submission is rejected.

### 1.5.2 Recommendation

Submission 12/1 is rejected.

Submission 35/7 is accepted in part.

Submissions 35/6, 40/3, 33/1 and further submission 40-3x291 are accepted. Further submission 33-1x256 is rejected.

Submission 28/2 is accepted in part.

Submissions 34/6, 35/9 and further submission 34-6x263 are accepted in part.

Submission 40/4 and further submission 40-4x292 are rejected.

Submission 40/5 is rejected.

Submission 33/2 is rejected.

Submission A14 and further submissions 26-22x687 and 64-14x1106 are rejected.

Submission 17/2 is accepted and further submission 17-2x464 is rejected.

Submissions 11/1, 33/3 are accepted and further submissions 11-1x236 and 33-3x257 are rejected.

Submission 35/8 is rejected.

Submission 29/2 is rejected and further submissions 29-2x244 and 29-2x522 are accepted.

Submission 34/7 and further submission 34-7x264 are rejected.

Submission 5/2 is rejected.

Submission 11/2 is accepted and further submission 11-2x237 is rejected.

Submission A15 and further submissions 26-23x688 and 64-15x1107 are rejected.

## 1.6 Section 14.3.3 Methods

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Transpower	34/8	Insert new method in S14.3.3 Methods: 'Policy 10 shall be implemented by rules, in particular Rule 9.7.2.12.'	<b>Support</b> 34-8x265 Vector Ltd

### 1.6.1 Discussion

This submission requests that the Methods section refer to a particular rule that will implement policy 10. Currently the Methods section refers generally to the fact that rules will implement policies. It is not considered that this particular rule is so important that a specific reference to it is required in the Methods section. The submission is rejected.

### 1.6.2 Recommendation

Submission 34/8 and further submission 34-8x265 are rejected.

## 1.7 Section 14.3.4 Environmental Results anticipated

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Transpower	34/9	Amend S14.3.4 Environmental Results Anticipated, first bullet point, as follows; <ul style="list-style-type: none"> <li><i>A city with network utilities that <u>adequately provide for community needs and do not have significant adverse environmental effects...</u></i></li> </ul>	<b>Support</b> 34-9x266 Vector Ltd
Broadcast Communications Ltd	5/3	Oppose bullet point 1 of clause 14.3.4. Amend to add the words at the end of the bullet point; <p><i>'... <u>balanced against objective and internationally recognised science and the recognised need for the services provided by utility infrastructure and the essential services they provide to a modern society.</u></i></p>	
TelstraClear Ltd, Vodafone NZ Ltd	32/1, 36/1	Amend the first two bullet points of S 14.3.4 Environmental Results Anticipated as follows, or other consequential relief that will give effect to this submission; <ul style="list-style-type: none"> <li><i>A city with network utilities that do not have significant adverse</i></li> </ul>	<b>Support</b> 32-1x246, 36-1x278 Vector Ltd <b>Support</b> 32-1x450, 36-1x456 Broadcast

		<p><i>environmental effects, as measured by resident perception surveys.</i></p> <ul style="list-style-type: none"> <li><i>Whether network utilities are considered to adversely affect amenity values in more sensitive areas such as recreation and coastal areas, and those containing cultural, built and natural heritage. This will be measured by resident perception surveys.</i></li> </ul>	<p>Communications Ltd</p> <p><b>Support</b> 32-1x1163, 36-1x1171 Telecom NZ</p>
Vector Ltd	35/10	Delete 14.3.4 Environmental Results Anticipated, or amend the section so it is more balanced in terms of providing for utilities, and delete the reference to resident perception surveys and regional health assessments.	<b>Support in part</b> 35-10x1169 Telecom NZ

### 1.7.1 Discussion

Submission 34/9 recommends the insertion of a new phrase in bullet point 1 of the environmental results anticipated section. This suggested addition ensures that not just the adverse effects of utilities are considered in resident perception surveys, but that the importance of utilities with respect to community needs is taken into account. This submission is accepted.

Submission 5/3 opposes the first bullet point and recommends an addition. Part of this addition suggests that the importance of utilities should be taken into account in this bullet point. An amendment to this effect is discussed in submission 34/9 above and is accepted. The other part of the recommended addition suggests that there is a need to balance the results of the survey against objective and internationally recognised science. This is due to concern that some sectors of the public have negative attitudes to radio frequency radiation and that this may skew the results of surveys. However it is not considered necessary to include this balancing at this stage. This environmental result anticipated is about how residents perceive utilities, regardless of what the science says. Any consequent changes to the District Plan will still have to be justified according to the purpose of the Act and the science will be relevant at this stage. Bullet point 3 also provides an objective measurement of any impacts on health that radio frequency radiation might cause. Furthermore, many of the adverse effects of utilities concern amenity and cannot be scientifically measured. The submission is accepted in part.

Submission 32/1 and 36/1 recommends the deletion of the measurement by resident perception surveys. The submission reasons that resident perception surveys are a very subjective form of assessment. It is considered important to obtain the community's perception of utilities and their effects, as the effect of utilities on amenity can in many ways be considered subjective. As stated above, obtaining an indication of the community's perception will not result in unreasonable changes to the District Plan being made. Any changes will still have to be justified according to the purpose of the Act. It is also noted that bullet points 3 and 4 provide objective measurements of some of the adverse effects of utilities. The submission is rejected.

Submission 35/10 opposes the environmental results anticipated section as the provisions focus almost entirely on the community. The change accepted in submission 34/9 does ensure that the benefits of utilities are recognised. This part of the submission is accepted. The submission also opposes the reference to resident perception surveys and regional health assessments as they are uncertain and inappropriate. Environmental results anticipated need to be measured in some way or else the results anticipated hold little meaning. This part of the submission is rejected, although the submission is accepted in part.

### 1.7.2 Recommendation

Submission 34/9 and further submission 34-9x266 are accepted.

Submission 5/3 is accepted in part.

Submissions 32/1, 36/1 and further submissions 32-1x246, 36-1x278, 32-1x450, 36-1x456, 32-1x1163 and 36-1x1171 are rejected.

Submission 35/10 and further submission 35-10x1169 are accepted in part.

## 1.8 Miscellaneous – amateur radio activity

Submitter	No.	Summary of Decision Sought	Further Submitter/s
North Shore Civil Defence Emergency Management	22/1	Exempt the North Shore City Civil Defence Radio Network from the proposed plan change. North Shore City Council is compelled under S 17 and 64 of the Civil Defence Emergency Management (CDEM) Act 2002 to provide an appropriate organisational structure for effective civil defence emergency management. NSCC has a radio	

		network which is dependant on properly installed aerials and antennas. Radio hams are also important to this network and are built into the local CDEM Plan. The Council would be in breach of the CDEM obligations if this plan change proceeds in its current form.	
Peter Dopheide	47/1	Oppose the Plan change as it will stifle ham radio activity in North Shore, which is necessary in the event of civil emergency and because it provides a source of interest and friendship for users.	
New Zealand Association of Radio Transmitters (Inc)	20/1	Oppose the proposed Plan change as it fails to reasonably accommodate the requirements of amateur radio operators, and the amateur radio service, through excessive limitation on the height, location, numbers, dimension and type of radio antennas and their supporting structures, through onerous and costly testing and monitoring, and inappropriate and confusing definitions. Amend the proposed change to reasonably accommodate amateur radio service communications.	<b>Support</b> FS Group
Various submitters	A2	Oppose the proposed plan change generally as it fails to accommodate as permitted uses the reasonable requirements of amateur radio operators and the amateur radio service, through excessive limitations on the height, location and numbers of radio antennas and aerials and their supporting structures.	<b>Support</b> 26-10x675, 64-2x1094 M D Newman
Dr Ross Garrett	14/1	Changes should be made to the proposed rules so that amateur radio operators can continue with the hobby that has been legal since the 1920's.	
D N Ellis	48/54	Oppose the plan change as it restricts amateur radio operators and they are important in the event of civil emergency.	
Wendy Bailey	2/1	Oppose the parts of the Plan change to do with antennas and transmitting station emission levels.	

### 1.8.1 Discussion

These submissions all oppose the potential impact of the plan change on amateur radio operators. It is recognised that amateur radio operators are important for civil defence in North Shore City and elsewhere, and changes have been recommended to the plan change to take account of this. However, restrictions on aerials and antennas are still in place (see the following sections). For these reasons these submissions are accepted only in part.

### 1.8.2 Recommendation

Submission 22/1, 47/1, 20/1 and a further submission by the FS Group, A2 and further submissions 26-10x675 and 64-2x1094 are accepted in part.

Submissions 14/1, 48/54, and 2/1 are also accepted in part.

## 1.9 Section 14.5.1.2 Radio frequency fields – compliance and monitoring

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Dr David Black	4/1	Support all users of radiofrequency radiation complying with NZS 2772.1	
Various submitters	A17	Oppose rules in Activity Table 14.1 that attempt to control radiofrequency fields emitted by activities.	<b>Support</b> 26-25x690, 64-17x1109 M D Newman
Dr David Black	4/2	Oppose mandatory testing or monitoring of radiofrequency radiation.	<b>Support</b> 4-2x664 M D Newman
TelstraClear Ltd, Vodafone NZ Ltd	32/10, 36/10	Delete rule 14.5.1.2 (b). Delete the following words from the Explanation and Reasons section of 14.5.1.2 and 14.5.1.3. <i>‘...To ensure they operate within the New Zealand Standard, cell sites and antennas emitting radio-frequency fields are also subject to random, independent monitoring of their radio-frequency emissions.’</i>	<b>Support</b> 32-10x454, 36-10x459 Broadcast Communications Ltd
Woosh Wireless Ltd	40/24	Delete 14.5.1.2(b)(ii) as the applicant should not bear the monitoring cost if the activity is permitted.	
Econet Wireless NZ Ltd	12/3	Oppose the provisions relating to Radiofrequency fields and the introduction of further regulation above NZS 2772 and the imposition of monitoring costs on the operator.	
Broadcast Communications Ltd	5/5	Oppose Rule 14.5.1.2 Radio Frequency Fields as currently drafted. Amend as following and make consequential amendments as necessary;	

		<p>(b) (i) Any cell site <u>applicant requesting consent to operate a telecommunication or radio communication facility or antenna or aerial shall be subject to random, independent monitoring of its emissions of radio-frequency fields to ensure that such emissions comply with in respect of which a report has been provided as identified in Rule 14.5.1.2(a) that demonstrates that emissions will exceed 25% of the New Zealand Standard NZS 2772.1: 1999 Part 1 – Maximum Exposure Levels – 3kHz to 300GHz, measured at in all places reasonably accessible to the general public shall provide a report that identifies the actual level of radio frequency exposures once the facility is operational. Such a report shall be provided to Council within three months of the commencement of the activity.</u></p> <p>(ii) <del>The monitoring will take place at the applicant's cost. Where any activity is found to be non compliant with Rule 14.5.1.2(a) in accordance with reporting under Rule 14.5.1.2(b)(i) then the applicant shall immediately take such necessary steps to ensure compliance and provide a further emissions level report within three months to demonstrate compliance.</del></p> <p>(iii) <del>Where the applicant is a network utility operator, no more than ten percent of the total number of operator's cell sites in North Shore City shall be subject to such monitoring in any one year. Where the network utility operator has less than ten sites, no more than two sites shall be subject to such monitoring in any one year. Any EMR surveys should be undertaken in accordance with the Measurement Standard AS 2772.2 1998 or any replacements of this (it is currently being reviewed). Such a survey should be undertaken by an appropriately qualified and technically competent person.</del></p>	
Dr Ross Garrett	14/2	Oppose in part section 14.5.1.2 (b) Radio frequency fields. Amend this provision to exclude this requirement for licensed radio amateur radio operators.	<b>Support</b> 14-2x439 M D Newman
North Shore Amateur Radio Club Inc	229/2	Oppose 14.5.1.2(b)(i) Radio frequency fields as it is contrary to established custom and practice and is in breach of the Human Rights Act.	
Brian Heywood	16/2	Amateur radio stations should be exempted from any radio frequency testing requirement, as they comply with NZS 2772 if at a reasonable height, and should be permitted to operate under the terms of licenses issued by MED.	<b>Support</b> 16-2x662 M D Newman
Edward Olson	24/2	Oppose the proposals to test the equipment of amateur radio operators for radio frequency radiation.	
Various submitters	A55	Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1	
Various submitters	A4	Amend the proposed plan change to remove the requirement for licensed amateur radio operators to have their radio frequency emissions subjected to monitoring and to be charged a fee for this monitoring.	<b>Support</b> 26-12x677, 64-4x1096 M D Newman
Various submitters	A23	Oppose Rule 14.5.1.2(b)(i) (requiring independent monitoring of radio frequency fields).	<b>Support</b> 26-31x696, 64-23x1115 M D Newman
Various submitters	A24	Oppose Rule 14.5.1.2(b)(ii) (monitoring will take place at the applicant's cost)	<b>Support</b> 26-32x697, 64-24x1116 M D Newman
Various submitters	A25	Oppose Rule 14.5.1.2(b)(iii) (numbers of network utility operator's sites subject to monitoring)	<b>Support</b> 26-33x698, 64-25x1117 M D Newman
Clarence Robert Young	41/1	Amend 14.5.1 so that aeriels can comply with this section.	
New Zealand Association of Radio Transmitters (Inc)	20/13	Allow self assessment and emission field testing by amateur radio operators.	<b>Support</b> FS Group
Various submitters	A1	Change the proposed rules covering the radio amateur service to provide the ability to function under the terms and conditions of the licenses issued by the MED, Radio Spectrum Management	<b>Support</b> 64-1x1093 M D Newman
Various submitters	A12	Incorporate the following wording: <u>'The requirement for mandatory random field testing shall not apply to the holder of an amateur radio license.'</u>	<b>Support</b> 26-20x685, 64-12x1104 M D Newman
Peter Smith	26/8, 26/9	Oppose the application of 14.5.1.2 Radio frequency fields and 14.5.1.2 b)i) Radio frequency fields (Independent monitoring) to licensed radio amateurs as power limits for radio amateurs are set by	<b>Support</b> 26-8x673 M D Newman

		MED.	<b>Support</b> 26-9x674 M D Newman
Various submitters	A22	Oppose the application of Rule 14.5.1.2 (requiring radiofrequency fields to comply with NZS 2772.1)	<b>Support</b> 26-30x695, 64-22x1114 M D Newman
Telecom NZ	31/2	Oppose row 1 in Activity Table 14.1 Telecommunications relating to Radio frequency fields, and oppose rule 14.5.1.2(b). Amend rule 14.5.1.2(b) in line with Mfe/MoH guidelines that suggest monitoring should only occur where expected levels are greater than 25% of NZS 2772, with confirmation monitoring done 3 months after emissions commence. This provision should not be retrospective and should apply only to new sites.	<b>Support</b> 31-2x444 Broadcast Communications Ltd <b>Support</b> 31-2x1195 TelstraClear Ltd <b>Support</b> 31-2x1182 Vodafone NZ Ltd
Dennis Thornton	64/54	Oppose the provisions relating to radiofrequency radiation and requests the adoption of a procedure based on those adopted by Auckland CC, Christchurch CC and particularly Palmerston North CC.	<b>Support</b> 64-54x663 M D Newman
Various submitters	A48	Oppose definition of 'Activity emitting radio frequency fields'.	<b>Support</b> 26-56x721, 64-48x1140 M D Newman
Rixt Brownlow	6/2	Oppose 14.5.1.2(iii) Radio Frequency Fields. Do not limit the numbers of an operator's cell sites that are subject to monitoring in any one year to 10% - increase this amount. Increase monitoring of cell sites with the telco companies to pay the compliance costs.	
Glenise Irving	18/2	Support the provisions regarding independent monitoring of cell sites. Each cell site should be monitored every year.	<b>Oppose</b> 18-2x443 Broadcast Communications Ltd

### 1.9.1 Discussion

Rule 14.5.1.2 (a) states that exposures to RF fields at all places reasonably accessible to the general public shall not exceed the levels in NZS 2772.1. The standard sets the levels generally accepted in New Zealand, based on worldwide health and safety best practice. It is considered essential to ensure that all activities emitting RF comply with this standard and any activity that fails to do so is a non complying activity. Submission 4/1 is accepted as it supports all users of RF radiation complying with this standard. Submission A17 and an associated further submission oppose row 1 in the Telecommunications section of Activity Table 14.1, because it attempts to control the emission of RF fields. For the reasons outlined, this rule is considered essential and these submissions are rejected.

As currently drafted, rule 14.5.1.2(b) requires random, independent monitoring of RF field emissions, at the applicant's cost. Submission 4/2 and a number of other submissions oppose this rule. Activities emitting RF fields can be grouped into two broad categories – cell sites operated by utility operators, and amateur radio operators. For the following reasons, it is considered that this provision is not justifiable under the Act for either of these groups. Submission 4/2 is accepted.

RF fields are not new. They include emissions from radio and television as well as those from cell sites. The World Health Organisation notes that (<http://www.who.int/mediacentre/factsheets/fs304/en/print.html>):

*“due to their lower frequency, at similar RF exposure levels, the body absorbs up to five times more of the signal from FM radio and television than from base stations. This is because the frequencies used in FM radio (around 100 MHz) and in TV broadcasting (around 300 to 400 MHz) are lower than those employed in mobile telephony (900 MHz and 1800 MHz) and because a person's height makes the body an efficient receiving antenna. Further, radio and television broadcast stations have been in operation for the past 50 or more years without any adverse health consequence being established.”*

Therefore, cell sites are not the only emitters of RF. They are also not necessarily the major emitters of RF. A study done for Vodafone by the National Radiation laboratory (NRL) in Wellington in 2004 found that, at that particular time, cellphone sites contributed only 14% of the RF fields in the environment. Vodafone also has a monitoring project that it runs in conjunction with the NRL to independently and randomly measure emissions from its cell sites from around the country (<http://www.nrl.moh.govt.nz/ExposureSurveyofVodafoneCellsites.html>). An examination of these results show that cell sites very rarely exceed 2% of the New Zealand Standard.

It is not considered justifiable to single out cell sites for special monitoring when, scientifically, they emit only some of the RF in the environment around us, and rarely approach the levels set out in the national



permitted standard. However, cell sites may still be monitored by Council under the general provisions of the Act or it may impose monitoring conditions on consents.

It is also considered that amateur radio operators should not be required to be monitored in this way. Amateur operators must obtain a license from the Ministry of Economic Development before they proceed with their activities. The license system ensures they are familiar with RF radiation and how it is measured. As evidenced by the number of submissions received on this plan change, they communicate effectively with each other and have a strong organisation called the New Zealand Association of Radio Transmitters. NZART has a self assessment system and good radio frequency safety practice is actively supported by the Association. It is also noted that RF radiation would be very difficult to monitor due to the highly varied nature of amateur radio activities. Dr David Black's submission (submission 4) advises that "*any attempt to establish compliance by measurement would be difficult and meaningless*".

It can be argued however that a system of checks and balances is required and self assessment is not sufficient to protect the public health and safety of the community. The submission from Dr David Black goes on to say that "*interference with radio or TV interference...is a more sensitive indicator of spurious or inappropriate radiation than consideration of electromagnetic radio levels*". Oral conversations with Martin Gledhill from the National Radiation Laboratory and policy analysts from the Ministry of Economic Development support this.

For these reasons submissions 32/10, 36,10, 40/24 and 12/3, and their associated further submissions are also accepted. Submission 5/5 requests the amendment of 14.5.1.2 (b), and this is accepted in part as the section is recommended to be deleted. Submissions 14/2, 229/2, 16/2, 24/1, A55, A4, A23, A24, A25, 41/1, 20/13, A1, A12, and their associated further submissions are also accepted.

Submissions 26/8, 26/9, A22 and associated further submissions are also accepted in that they oppose the monitoring provisions which are being removed. However they also oppose the application of part (a) of 14.5.1.2 which ensures that all activities that emit RF fields are subject to NZS 2772.1. In this respect they are rejected. The submissions are accepted in part.

Submission 31/2 opposes 14.5.1.2(b). It also suggests the inclusion of the monitoring provisions recommended by the Ministry for the Environment. This submission is accepted. See the next section 'Report required before commencing activity' for a fuller discussion of this change.

Submission 64/54 requests adoption of provisions similar to those used by Palmerston North City Council. The revised provisions remove the onerous monitoring provisions, and regulate amateur radio operators only in the sense that they must not exceed the New Zealand Standard. This is similar to the Palmerston North approach. This submission is accepted.

Submission A48 opposes the definition of 'Activity emitting radiofrequency fields'. The definition is designed to include all emitters of RF other than common household devices. As discussed above, it is considered that all RF emitting devices save those mentioned should be subject to the New Zealand Standard. The submission and associated further submission are rejected.

Submission 6/2 recommends increasing the monitoring to be carried out on cell sites. As discussed above this is not considered justifiable. The submission is rejected. Submission 18/2 supports the provisions regarding independent monitoring that are recommended to be deleted. The submission is opposed by further submission 18-2x443. The further submission is accepted and original submission rejected.

### **1.9.2 Recommendation**

Submission 4/1 is accepted.

Submission A17 and further submissions 26-25x690 and 64-17x1109 are rejected.

Submission 4/2 and further submission 24-2x664 are accepted.

Submissions 32/10, 36,10, 40/24 and 12/3, 14/2, 229/2, 16/2, 24/2, A55, A4, A23, A24, A25, 41/1, 20/13, A1, A12, and further submissions 32-10x454, 36-10x459, 14-2x439, 16-2x662, 26-12x677, 64-4x1096, 26-31x696, 64-23x1115, 26-32x697, 64-24x1116, 26-33x698, 64-25x1117, a submission by the FS Group, 64-1x1093, 26-20x685 and 64-12x1104 are accepted.

Submission 5/5 is accepted in part.

Submissions 26/8, 26/9 and A22, with further submissions 26-8x673, 26-9x674, 26-30x695, 64-22x1114 are accepted in part.

Submission 31/2 and further submissions 31-2x444, 31-2x1195 and 31-2x1182 are accepted.  
 Submission 64/54 and further submission 64-54x663 are accepted.  
 Submission A48 and further submissions 26-56x721, 64-48x1140 are rejected.  
 Submission 6/2 is rejected.  
 Submission 18/2 is rejected, and further submission 18-2x443 is accepted.

### 1.10 Section 14.5.1.1 Report required before commencing activity

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Peter Smith	26/2	Oppose 14.5.1.1 Report required before commencing activity as this provision should not apply to licensed radio amateurs.	<b>Support</b> 26-2x667 M D Newman
North Shore Amateur Radio Club Inc	229/1	Oppose 14.5.1.1 Report required before commencing activity, as the power limits for radio frequency fields are prescribed for licence holders by MED.	
Various submitters	A47	Oppose 3.10.7.1.6 (requirement to furnish report regarding radiofrequency fields when activity proposed).	<b>Support</b> 26-55x720, 64-47x1139 M D Newman
Various submitters	A21	Oppose Rule 14.5.1.1 that requires report for activity emitting radio frequency fields or extremely low frequency electric and magnetic fields	<b>Support</b> 26-29x694, 64-21x1113 M D Newman
Vector Ltd	35/26	Delete Rule 14.5.1.1.	
Transpower	34/12	Either delete Rule 14.5.1.1. or amend Rule 14.5.1.1 as follows, and include text in the Explanation and Reasons to support this;  <i><u>'Any network utility proposal requiring consent to undertake a new activity emitting radio-frequency fields, or extremely low frequency (ELF) electric and magnetic fields, which result in public exposure, or existing activity that proposes to increase existing levels, should submit a report as required in S 3.10.7.1.6.'</u></i>	<b>Support</b> 34-12x269 Vector Ltd

#### 1.10.1 Discussion

Rule 14.5.1.1 requires that any activity proposing to emit RF or ELF fields should submit a report as required in S3.10.7.1.6. Submissions 26/2, 229/1, A47 and A21 all argue that amateur radio operators should not be required to furnish such a report. As discussed in the last section, the monitoring obligations for amateur radio operators have been removed and these submissions, along with their associated further submissions, are accepted. A wording change has been inserted in S 3.10.7.1.6 to remove this requirement.

Submission 35/26 requests the deletion of rule 14.5.1.1. It is considered sound resource management practice to submit reports of the nature detailed in S 3.10.7.1.6 and the submission is rejected. However it is noted that the report required by S3.10.7.1.6 for activities emitting RF radiation has changed. Submission 31/2 (discussed in the last section) requested the introduction of monitoring requirements based on those recommended by Mfe. An activity emitting RF radiation should provide a report detailing the expected levels of RF to be emitted. Should the level be expected to exceed 25% of the New Zealand standard a report must be provided once the activity commences, verifying that it does not exceed the Standard. The activities of amateur radio operators are excluded from this monitoring requirement.

Submission 34/12 requests the deletion or amendment of 14.5.1.1. The amendment has the effect of ensuring that reports are only required for activities that result in public exposure. This amendment is accepted. The amendment also suggests the insertion of the words 'network utility proposal requiring consent'. Even if the activity is permitted it is considered that if there is a risk of public exposure, a report should be furnished. The submission is accepted in part.

#### 1.10.2 Recommendation

Submissions 26/2, 229/1, A47, A21 and further submissions 26-2x667, 26-55x720, 64-47x1139, 26-29x694 and 64-21x1113 are accepted.  
 Submission 35/26 is rejected.  
 Submission 3412 and further submission 34/12x269 are accepted in part.

### 1.11 Section 14.5.1.3 Electric and Magnetic Fields

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Transpower	34/11	Either delete row 1 of the Electricity Section of Activity Table 14.1 –	<b>Support</b> 34-11x268

		'All activities emitting extremely low frequency electric and magnetic fields', or amend the activity status wording in row 1 of the Electricity Section of Activity Table 14.1 as follows; <i>'All zones provided activity complies with Rule 14.5.1 14.5.1.3'</i>	Vector Ltd
Transpower	34/14	Amend 14.5.1.3 as follows; <i>'Public exposures to ELF electric and magnetic fields shall comply...'</i>	<b>Support</b> 34-14x271 Vector Ltd
Vector Ltd	35/17	Amend row 1 of the Electricity Section of Activity Table 14.1 to change the activity status for all zones, when the activity does not comply with Rule 14.5.1, to a limited discretionary activity status.	
Various submitters	A26	Oppose Rule 14.5.1.3 (compliance of electric and magnetic fields with ICNIRP guidelines 1998)	<b>Support</b> 26-34x699, 64-26x1118 M D Newman

### 1.11.1 Discussion

Submission 31/11 requests an amendment to the rule in Activity Table 14.1 regarding activities that emit ELF fields. Currently the rule refers to all of 14.5.1, and the submission requests that it be limited only to 14.5.1.3. Non compliance with ICNIRP guidelines under 14.5.1.3 means that the activity is unsafe, whereas the rest of rule 14.5.1 deals with reports that are required prior to an activity commencing, and radio frequency fields. 14.5.1.3 is the only matter crucial enough to justify a non complying activity in the event of non compliance. The submission, with the associated further submission, is accepted.

Submission 34/14 requests that the rule in 14.5.1.3 regarding exposures to ELF fields is limited to public exposures. Amending the rule in this fashion makes it consistent with the rule regarding exposure to radio frequency emissions. The submission, with the associated further submission, is accepted.

Submission 35/17 requests that non compliance with 14.5.1.3 be amended from a non complying activity to a limited discretionary activity. Non compliance with the ICNIRP guidelines means that an activity poses an unacceptable danger to the community, including the risk of electrocution. A restricted discretionary activity is not acceptable in this instance and the submission is rejected. Submission A 26 opposes the need for activities to comply with the ICNIRP guidelines at all. Again, this is not acceptable for public health and safety reasons. The submission, with the associated further submission, is rejected.

### 1.11.2 Recommendation

Submissions 34/11 and 34/14, along with associated further submissions 34-11x268 and 34-14x271, are accepted.

Submissions 35/17 and A26, and further submissions 26-34x699 and 64-26x1118 are rejected.

## 1.12 Section 14.5.2.2 Landscaping (development controls)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Vector Ltd	35/27	Amend 14.5.2.2 as follows; <i>'For amenity purposes, where practicable, the visual impact of above ground structure <del>must</del> be remedied or mitigated by landscaping, screening or similar remedial measures.'</i>	
Various submitters	A27	Oppose 14.5.2.2 (requiring landscaping or screening of above ground structures)	<b>Support</b> 26-35x700, 64-27x1119 M D Newman
TelstraClear Ltd, Vodafone NZ Ltd	32/11, 36/11	Amend Rule 14.5.2.2 as follows; <i>'For amenity purposes, the visual impact of above ground structures where the base of the structure is visible from a public place or road reserve <del>must</del> shall be remedied or mitigated by landscaping, screening or similar remedial measures. Such landscaping, screening or remedial measures shall not be required for network utilities either located in the road reserve or attached to buildings.'</i>	
Shirley Squire	28/1	Amend S 14.5.2.2 to ensure that tree landscaping is used above all other types of screening.	<b>Oppose</b> 28-1x241 Vector Ltd

### 1.12.1 Discussion

Submission 35/27 suggests an amendment to S14.5.2.2 as it is not always practicable to remedy or mitigate the visual impact of above ground utility structures. This submission is accepted in part. The 'where practicable' is inserted as recommended. 'Must' has been deleted, but it has been replaced by 'shall', as it is considered important not to undermine the importance of landscaping above ground structures. There is also an addition made to the explanation and reasons section to clarify that it is not considered practical to

screen structures that are elevated well above ground level. See the revised wording in the attached copy of the Plan change. Submission A27 concerns the potential for screening to interfere with aerials. It is considered that the amendment to S 14.5.2.2 detailed above deals with this concern, and the submission is accepted in part.

Submissions 32/11 and 36/11 also suggest an amendment to S14.5.2.2. While the wording is not adopted, some of the concerns the submissions raise are addressed in the amendments outlined above, including a comment on elevated structures in the explanation and reasons section. It is considered that the suggested amendment concerning visibility is not necessary as the provision states that the visual impact of above ground structures is important for amenity purposes. Where the base of the structure is not visible from a public place or road reserve it is unlikely that amenity will be affected by that part of the structure. It is also not considered that giving a blanket exclusion from landscaping for those utilities attached to buildings is necessary, as the visual impact can be reduced using other remedial measures, for example sensitive placement or painting. Finally, there is no need to exclude landscaping from network utilities in the road reserve as S14.5.2 already does this.

Submission 28/1 suggests that landscaping using trees should be the preferred method of screening. However, what screening should be used is dependant on the context. In some cases using a simple fence or wall may be more appropriate than using trees for screening. Roots of trees may interfere with underground services. Specifying that trees should be used is inappropriate. The submission is rejected.

### 1.12.2 Recommendation

Submissions 35/27, A27 and further submissions 26-35x700 and 64-27x1119 are accepted in part. Submissions 32/11 and 36/11 are accepted in part. Submission 28/1 is rejected and further submission 28-1x241 is accepted.

### 1.13 Section 14.5.2.3 Maintenance (development controls)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Vector Ltd	35/28	Amend S14.5.2.3 as follows; <i>'Network utility operators shall maintain and regularly upkeep any above ground structures so as to protect the amenity of an area and prevent any health and safety issues arising. The operator must remove any graffiti or posters from the above ground structures within five working days of notification by the Council, <u>where practicable</u>. Where minor utility structure located <u>above ground</u> in the road reserve <del>(whether above or below ground)</del> are redundant or obsolete they must be removed.'</i>	
Vector Ltd	35/29	Delete the following sentence from S14.5.2.3 Explanation and Reasons; <del><i>'Where a pipe or wire is being replaced, the replacement should be located in the same corridor to avoid unnecessary cluttering of the underground road reserve.'</i></del>	

#### 1.13.1 Discussion

Submission 35/28 comprises two parts. The first recommends requiring a utility operator to remove graffiti or posters from structures within 5 working days, but only where practicable to do so. It is argued that there may not be sufficient resources to do it within this time, or that the weather may be restrictive. It is considered that 5 working days is sufficient for a utility company to find capacity to remove graffiti or posters, and it would be unusual for weather to restrict any maintenance work of this type. This part of the submission is rejected. The second part of the submission suggests that only redundant structures located in the road reserve above ground should be removed. It is argued that it is normal for underground cables to be removed only when space is at a premium, whereupon the cables are removed at the same time as the new equipment is installed. It is accepted that removing underground cables when they become redundant is not justifiable, and this requirement is removed. However, as administrator of the road reserve, Council needs to know what cables or pipes are being used so it can allocate space. Consequently, wording is inserted to require network utility operators to disclose what pipes are redundant to enable the space to be used by another operator where required. The submission is accepted in part.

Submission 35/29 recommends the deletion of the last sentence in the explanation and reasons section, as it is impractical for a replacement pipe or wire to be located in the same corridor. This deletion is accepted, but instead of simply deleting the sentence, it is recommended that it be replaced by the marked up wording in

the attached revision. The wording suggests that the replacement shall be placed as near as practicable to the designated position outlined in the North Shore City Council Infrastructure Design Standards.

### 1.13.2 Recommendation

Submissions 35/28 and 35/29 are accepted in part.

### 1.14 Section 14.5.2.4 Height, height to boundary and yard controls (development controls)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Broadcast Communications Ltd	5/6	Amend Rule 14.5.2.4 Height, Height to Boundary and Yard Controls to add the following at the end of the Rule and make any necessary consequential amendments: <i>'...with the exception of Utility Masts which shall be exempt from the building height and height to boundary rules.'</i>	
TelstraClear Ltd, Vodafone NZ Ltd	32/12, 36/12	Amend Rule 15.5.2.4 as follows; <i>'14.5.2.4 Height, Height to Boundary and Yard Controls For all activities located outside the road reserve and above ground, all structures greater than 1.8m high or 10m<sup>2</sup> shall comply with the <del>development controls</del> height to boundary and yard controls for the zones in which they are located.'</i>	<b>Support</b> 32-12x252, 36-12x284 Vector Ltd <b>Support</b> 32-12x1165, 36-12x1173 Telecom NZ
Woosh Wireless Ltd	40/25	Delete 14.5.2.4 as it restricts the ability to establish a city wide telecommunication network.	
Various submitters	A28	Oppose 14.5.2.4 (all structures higher than 1.8m to comply with development controls)	<b>Support</b> 26-36x701, 64-28x1120 M D Newman
New Zealand Association of Radio Transmitters (Inc)	20/7	Remove the application of height control planes to amateur radio antennas and their supporting structures.	<b>Support</b> FS Group
New Zealand Association of Radio Transmitters (Inc)	20/8	Reduce the setbacks to simple pole structures to 0.5m on all boundaries.	<b>Support</b> FS Group
New Zealand Association of Radio Transmitters (Inc)	20/9	Reduce the setbacks for mast structures to 1.5m on all boundaries.	<b>Support</b> FS Group
Various submitters	A9	Reduce the setbacks of simple pole structures to 0.5 metres on all boundaries and for mast structures to 1.5 metres	<b>Support</b> 26-17x682, 64-9x1101 M D Newman

#### 1.14.1 Discussion

Submission 5/6 requests that masts be excluded from building height and height to boundary rules - masts that are controlled activities in business zones have a height specified in development controls of 20m which is higher than the permitted building height in most zones. Submissions 32/12 and 36/12 and associated further submissions submit, more generally, that development controls for the zone should not apply as development controls have already been included in the proposed plan change. It is accepted that it is unnecessary to apply zone development controls to situations where specific controls have been set up for various utilities, eg mast height, height of aerials and antennas when attached to buildings and masts, and yards for antennas. The amendments proposed to 14.5.2.4 take account of these submissions by excluding the zone development controls where specific controls have been set up in the proposed utility section. Submission 5/6 also requests the exclusion of masts from building height to boundary rules. The height to boundary rules in business zones are primarily targeted at reducing the impact of business activities on adjacent residential zones, and public spaces such as roads and reserves. It is considered that these controls are important for the amenity of adjacent areas and masts should not be excluded from their application. Submission 5/6 is accepted in part, and submissions 32/12 and 36/12, and associated further submissions are accepted.

Submission 40/25 opposes 14.5.2.4. As discussed above it is considered appropriate to subject utility structures to zone development controls where specific controls do not apply in the utility section. The submission is rejected.

Submission A28 opposes the requirement of all structures greater than 1.8m to comply with development controls. As discussed above, where specific controls have been set up in Table 14.1 it is not considered that the particular zone development control should apply. Otherwise, it is considered that there is no valid resource management reason for structures not to comply with the development controls for the zone. Likewise, it is considered important for the amenity of neighbouring that height to boundary rules apply to all structures. The submissions are rejected.

Submissions 20/8, 20/9, A9 and associated further submissions request reduced setbacks for pole and mast structures from that normally permitted for structures in most zones. It is considered that allowing pole structures up to 0.5m from boundaries may adversely affect neighbour's amenity, and that structures should be subject to the normal yard constraints.

#### 1.14.2 Recommendation

Submission 5/6 is accepted in part.

Submissions 32/12, 36/12 and further submissions 32-12x252, 36-12x284, 32-12x1165 and 36-12x1173 are accepted.

Submissions A2, 20/7 and further submissions 26-36x701, 64-28x1120 and a further submission by the FS Group are rejected.

Submissions 20/8, 20/9, A9 and further submissions 26-17x682 and 64-9x1101 and two further submissions by the FS Group are rejected.

#### 1.15 Aerials, antennas and masts - general

Submitter	No.	Summary of Decision Sought	Further Submitter/s
G D Owst	25/1	Oppose any restrictions on aerials that may be retrospective.	
Various submitters	A18	Oppose rules in Activity Table 14.1 that attempts to control aerials	<b>Support</b> 26-26x691, 64-18x1110 M D Newman
Various submitters	A19	Oppose rules in Activity Table 14.1 that attempt to control antennas	<b>Support</b> 26-27x692, 64-19x1111 M D Newman
Dr Johan Michael VanSchalkwyk	66/1	Oppose the proposed plan change generally as it places unreasonable restrictions on the requirements of amateur radio operators and the amateur radio service, through excessive limitations on the height, location and numbers of radio antennas and aerials and their supporting structures. Change the controls that apply to these structures.	
Various submitters	A3	Amend the proposed plan change to allow, as permitted uses, antennas erected at proper height and dimensions and in sufficient number for communications effectiveness and experimentation and otherwise that will reasonably accommodate amateur radio service communications.	<b>Support</b> 26-11x676, 64-3x1095 M D Newman
Various submitters	A54	Change the proposed controls on Radio Amateur aerials, antennas and masts	
Brian Heywood	16/1	Amateur radio masts, aerials and antenna should be exempted from the proposed rules or more discretionary conditions allowed.	<b>Support</b> 16-1x461 M D Newman
R Clarke	7/1	Oppose provisions for height controls on aerials, antennas and masts (and any resource consent fees), as the height required is determined by signal strength.	
Edward Olson	24/1	The proposed restrictions on the numbers of antenna and aerials, antenna height and size, and mast height should be removed.	
Freeview Group	13/1	Oppose the provisions of the Plan change that limit the number, design, size height and location of privately owned antennas and aerials. Many North Shore residences have marginal reception and in the medium term at least one new antenna will be required for the move to digital television. Strict application of the proposals would rule out acceptable television reception for large numbers of residents and for some, could result in no reception at all.	<b>Support</b> 13-1x442 Broadcast Communications Ltd
Broadcast Communications Ltd	5/1	Oppose the inclusion of rules that limit the number and type of antennas on utility masts and the use of the limited discretionary and discretionary activity classes of activity for such limited concentrations of antennas on utility infrastructure. In particular, amend the following rules in Table 14.1 Activity Status, and make consequential amendments arising from these changes.	<b>Support in part</b> 5-1x1161 Telecom NZ

	<p>Aerials: <u>Limited Discretionary</u> - All zones where activity does not comply with Rule 14.5.3.1</p> <p>Antennas: attached to a BUILDING (excluding a MAST) that do not exceed;  <ul style="list-style-type: none"> <li>• <del>0.6m<sup>2</sup> in area or 0.8m in diameter, or</del></li> <li>• 1m<sup>2</sup> in area or 1m in diameter, <del>are located in Residential, Recreation and Special Purpose 3-11 or 13 zones, and complies with Rule 14.5.3.2.1 b) – (Activity Status same)</del></li> </ul> </p> <p>Antennas: attached to a BUILDING (excluding a MAST) that do not exceed;  <ul style="list-style-type: none"> <li>• <del>1m<sup>2</sup> in area or 1m in diameter, or</del></li> <li>• 1.5m<sup>2</sup> in area...etc – Activity Status same</li> </ul> </p> <p>Masts: in accordance with the height limits in 14.5.3.3  <u>Permitted Controlled</u> – Business zones 2-11 and Special Purpose 1,2 and 12 zones  <del><u>Permitted Limited Discretionary</u> – All other zones (including Business 1 where not adjacent to Residential 3 zone (other Activity Status same)</del></p> <p>Antennas: attached to a MAST, not exceeding 1m<sup>2</sup> in area or 1m in diameter  <del><u>Controlled</u> – Business 2-11 Rural zones and Special purpose 1,2 and 12 zones</del>  <u>Permitted Limited Discretionary</u> - All other zones  <u>Discretionary Non-complying</u>- Residential 3</p> <p>Up to 3 ANTENNAS attached to a MAST or streetlight, provided that where there are 3 ANTENNAS, only one may be a dish ANTENNA and it may not have a diameter greater than 300mm  <del><u>Controlled</u> – Business 2-11 Rural zones and Special purpose 1,2 and 12 zones</del>  <u>Permitted Limited Discretionary</u> - All other zones  <u>Discretionary</u> – Recreation <u>and Residential 3 zones</u></p> <p>Up to 4 ANTENNAS attached to a MAST or streetlight, provided that where there are 4 ANTENNAS, only one may be a any dish ANTENNA and it may not exceed 0.5m<sup>2</sup> in area or if a dish have a diameter greater than 600mm  <del><u>Controlled</u> – Business 2-11 Rural zones and Special purpose 1,2 and 12 zones</del>  <u>Permitted Discretionary</u> - All other zones  <u>Discretionary Non-Complying</u> – Recreation and Residential 3 zones</p> <p><b><u>New Activity Status</u></b>  <u>Antennas attached to an existing, approved or permitted MAST, provided that any ANTENNA may not be greater than 1.0m<sup>2</sup> in area or if a dish have a diameter greater than 1.2m:</u>  <u>Permitted – All other zones</u>  <u>Discretionary – Recreation and Residential 3 zones</u></p>	
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### 1.15.1 Discussion

Submission 25/1 opposes any restrictions on aerials that are retrospective. The proposed changes will not apply to existing aerials as they have existing use rights. These rights will only be lost if the change in use generates effects that are not the same or similar in character, intensity or scale. The submission is accepted.

Submissions A18 and A19 oppose the rules in Activity Table 14.1 that control aerials and antennas respectively. Some of these rules have been changed, but other rules still remain, so the submission is accepted in part.

Submission 66/1 requests changes to the proposed controls on aerials, antennas and masts as the current provisions are too restrictive for radio amateurs. Changes have been made as a result of submissions and these are discussed in the next sections. The submission is accepted in part, as is A3, A54, 16/1, 7/1 and 24/1.

Submission 13/1 has been taken into account in determining the limits on the permitted numbers of aerials and antennas. The submission is accepted in part.

Submission 5/1 suggests a redraft of the provisions in the activity table to do with aerials, antennas and masts. These suggestions are dealt with in the following sections under each topic area. Some of these submissions are accepted in principle, and the submission is accepted in part.

### 1.15.2 Recommendation

Submission 25/1 is accepted.

Submissions A18, A19 and further submissions 26-26x691, 64-18x1110, 26-27x692 and 64-19x1111 are accepted in part.

Submissions 66/1, A3, A54, 16/1, 7/1, 24/1 and further submissions 26-11x676, 64-3x1095 and 16-1x461 are accepted in part.

Submission 13/1 and further submission 13-1x442 are accepted in part.

Submission 5/1 and further submission 5-1x1161 are accepted in part.

### 1.16 Section 14.5.3.1.1 Aerials attached to a building

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Woosh Wireless Ltd	40/12	Oppose activity status of aerials, in row 6 of Table 14.1 Activity Status Telecommunications. Where aerials do not comply with 14.5.3.1, amend the activity status from limited discretionary to controlled.	
Woosh Wireless Ltd	40/23	Oppose activity status in row 17 of Table 14.1 Activity Status Telecommunications (Antennas, aerials and masts not otherwise provided for). Amend activity statuses in this rule so they are a controlled activity in all zones.	
Vaughan Henderson	15/1	Oppose the application of S 14.5.3.1. Aerials should not apply to the holder of an amateur radio license.	
Woosh Wireless Ltd	40/26	Oppose in part S 14.5.3.1.1(i). Amend the following wording to allow for aerials on existing buildings that are over the height limit for the zone. <i>'Height - The aerial shall not exceed the height of the point of attachment to the building or the height of the zone by more than the following...'</i>	
Various submitters	A29	Oppose 14.5.3.1.1(i) (aerials no higher than 3m above attachment)	<b>Support</b> 26-37x702, 64-29x1121 M D Newman
Clarence Robert Young	41/2	Amend 14.5.3 to increase aerial height and pole size, to ensure that households can receive adequate TV reception whilst complying with this section.	
Broadcast Communications Ltd	5/7	Amend Rule 14.5.3.1.1.ii) Numbers of Aerials Attached to a Building as follows and make any necessary consequential amendments: <i>'In Residential zones there shall be no more than 2 3 aerials per residential unit on any site, except that if there are more than 2 residential units on a single site that are part of one block of buildings, only 4 3 aerials per residential unit contiguous block of building-is are permitted.'</i>	
Peter Smith	26/1	Oppose S14.5.3.1.1 ii) to ensure that licensed radio amateurs are not restricted to two aerials per residential unit.	<b>Support</b> 26-1x666 M D Newman
Various submitters	A30	Oppose 14.5.3.1.1ii) (only two aerials per residential unit)	<b>Support</b> 26-38x703, 64-30x1122 M D Newman
Brian Cumber	10/1	Oppose following provisions - S 14.5.3.1.1 ii) Numbers of Aerials, and S 14.5.3.2.1 a) i) and ii), Height and Numbers. The numbers allowed are too small to allow all aerials and antennas required, eg VHF, UHF, Ham radio, CB and low power FM transmitters, satellite antennas.	
Peter Smith	26/3	Oppose the application of 14.5.3.1.1 iii) to licensed radio amateurs as it limits the use of wire antennas.	<b>Support</b> 26-3x668 M D Newman
Dr Ross Garrett	14/3	Oppose the limitation of aerial size to 3m in S14.5.3.1.1 (iii). The limitation of aerials to this size would make long range communication extremely difficult.	<b>Support</b> 14-3x661 M D Newman
Various submitters	A31	Oppose 14.5.3.1.1iii) (dimensions of aerials to be less than 3m)	<b>Support</b> 26-39x704, 64-31x1123 M D Newman

### 1.16.1 Discussion



Submission 40/12 requests that aeriels that are permitted or controlled activities but do not comply with the development controls in 14.5.3.1 should be controlled activities and not restricted discretionary. An envelope of development controls provides for those structures which have minimal effects. Structures falling outside that envelope are regarded more seriously and it is considered important for Council to have the opportunity to refuse these structures in the event that their effects are more than minor. The submission is rejected. Similarly, submission 40/23 requests that aeriels, antennas and masts that are not otherwise provided for in the table be controlled activities. For the same reason, this submission is rejected.

Submission 15/1 opposes the application of 14.5.3.1 to holders of an amateur radio license. Excluding only radio amateur license holders from the application of the rules is not considered appropriate. All aeriels attached to buildings should comply with the rules. The submission is rejected.

Submission 40/26 recommends amending the wording outlined as it limits the height of aeriels on a building if the building is already over the height limit for the zone. The current wording restricts the height of aeriels with respect to zone height to keep a consistent height across the zone. However it can be argued that, regardless of the height of the building, the form of the building envelope is an important mitigating factor that offsets the visual impact of the aerial. This submission is accepted and a redraft to address this point is contained in the attached revisions.

The remainder of the submissions on rule 14.5.3.1.1 deal with the height, number and dimension of aeriels attached to buildings. The proposed rules are relatively restrictive. Many submitters, and in particular amateur radio operators, have requested extensions to the permitted breadth of these rules. The opposing policy questions balance the adverse visual effects of unusually large aeriels when viewed from neighbouring properties and public places against the public interest in having an effective network of radio hams that can assist Civil Defence organisations in a time of need. There is also the argument that people suffering from poor television reception may require unusually high or large aeriels, but this number of people will decrease over time as the move to digital public television takes place and the transition to UHF aeriels takes place.

It is recommended that the Commissioners determine what mix of controls will best serve North Shore City. One option is to leave the rules as they are, which may have adverse effect on North Shore City's ability to respond in a civil defence emergency. Another is to allow aeriels attached to buildings without limiting their height, size or dimension. This is an ideal situation for amateur radio operators as it enables them to conduct their activities without restriction. A middle ground might be to allow an unlimited number of aeriels on standalone dwellings but limit the number of aeriels above a certain size and height. It is considered that the question of what is acceptable for these activities is left to the Commissioners determination. The remaining submissions are accepted in part.

### 1.16.2 Recommendation

Submissions 40/12 and 40/23 are rejected

Submission 15/1 is rejected.

Submission 40/26 is accepted.

Submissions A29, 41/2, 5/7, 26/1, A30, 10/1, 26/3, 14/3, A31, and further submissions 26-37x702, 64-29x1121, 26-1x666, 26-38x703, 64-30x1122, 26-3x668, 14-3x661, 26-39x704 and 64-31x1123 are accepted in part.

### 1.17 Section 14.5.3.1.2 Aeriels attached to a mast

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Broadcast Communications Ltd	5/8	Oppose Rule 14.5.3.1.2 i) Aeriels Attached to a Mast and delete in its entirety. Amend Rule 14.5.3.1.2 ii) to set a maximum dimension of an aerial as 3.0 metres. Make any necessary consequential amendments.	
Woosh Wireless Ltd	40/27	Delete S14.5.3.1.2(i); <del>'Only one aerial is permitted per mast.'</del>	
Woosh Wireless Ltd	40/28	Amend S14.5.3.1.2(ii) Dimensions of aeriels, to provide for aeriels up to 5.0m in height above the mast(excluding the mountings).	
Peter Smith	26/4	Oppose 14.5.3.1.2 i) Aeriels attached to a mast, regarding the limitation of one aerial per mast, as it is unduly restrictive on licensed radio amateurs.	<b>Support</b> 26-4x669 M D Newman
Various submitters	A32	Oppose 14.5.3.1.2i) (only one aerial per mast permitted)	<b>Support</b> 26-40x705, 64-

			32x1124 M D Newman
Peter Smith	26/6	Oppose 14.5.3.1.2 i) Aerials attached to a mast, concerning aerials being limited to 1m in dimension. The right of licensed radio amateur to use wire or beam aerials should not be restricted by this rule.	<b>Support</b> 26-6x671 M D Newman
Various submitters	A33	Oppose 14.5.3.1.2ii) (dimensions of aerial to be 1m when attached to a mast)	<b>Support</b> 26-41x706, 64-33x1125 M D Newman

### 1.17.1 Discussion

Submission 5/8 requests that the limitation on the number of aerials attached to masts are deleted, and the limitation on dimension be increased from 1m to 3m. It is accepted that the current rules are quite restrictive, but it is not considered acceptable to allow an unlimited number of aerials per mast. It is also considered that 3m in dimension is too large to allow as a permitted activity. The submission advises that the standard aerial for the broadcast of FM services is typically 1.3m in length and it is recommended that this be accepted as permitted, and that allowing two aerials as a permitted activity is acceptable. The submission is accepted in part. Submission 40/27 is also accepted in part.

Submission 40/28 also argues that a 1m aerial is unreasonable and an aerial should be permitted to extend up to 5m above the height of the mast. Whilst 5m is considered unacceptable, the submission is accepted in part, as the size of an aerial has been increased to 1.5m as discussed in the submission above.

Submissions 26/4, A32, 26/6 and A 33 and associated further submissions oppose the current restrictions concerning aerials being attached to masts, as they unduly restrict amateur radio operators. It is considered that applying the same mast rules to network utility operators and amateur radio operators does not achieve the purpose of the Act. Restricting amateur radio operators in this way will unduly restrict their activities, the importance of which to North Shore City's civil defence has been demonstrated elsewhere in this report. It is considered that an alternative set of rules should be developed that deal with privately owned aerials attached to pole structures. In this respect, these submissions are accepted in part. The changes requested to the rules concerning masts have not been implemented but other rules are suggested that heed some of the concerns – see proposed Rule 14.5.3.1.3 which details proposed rules regulating 'private pole aerials'. The rule proposes to limit the dimension of aerials attached to private pole aerials to 5m, except if the aerial is a single wire aerial, in which case the dimension is unlimited. The permitted height of the structures are generally the height of the zone, with an extension in rural zones. The number of private pole aerials per site is limited to one.

### 1.17.2 Recommendation

Submissions 5/8, 40/27, and 40/28 are accepted in part.

Submissions 26/4, A32, 26/6, A33 and further submissions 26-4x669, 26-40x705, 64-32x1124, 26-6x671, 26-41x706 and 64-33x1125 are accepted in part.

## 1.18 Size of antennas attached to buildings

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Various submitters	A10	Allow amateur communication satellite dishes up to 4 metres in diameter.	<b>Support</b> 26-18x683, 64-10x1102 M D Newman
Woosh Wireless Ltd	40/13	Support and retain row 7 of Table 14.1 Activity Status Telecommunications (where Antennas attached to a building are permitted in all zones).	
Woosh Wireless Ltd	40/14	Support and retain row 8 of Table 14.1 Activity Status Telecommunications (where Antennas attached to a building are permitted or controlled in all zones).	
Telecom NZ	31/4	Oppose row 8 in Activity Table 14.1, Telecommunications regarding antennas attached to a building. Where an antenna is within the existing profile of a building, antennas should be permitted. Amend Activity Table 14.1 so that all panel antennas attached entirely within the existing building profile are a permitted activity regardless of dimension.	<b>Support</b> 31-4x448 Broadcast Communications Ltd <b>Support</b> 31-4x1196 TelstraClear Ltd <b>Support</b> 31-4x1183 Vodafone NZ Ltd
TelstraClear Ltd, Vodafone NZ Ltd	32/5, 36/5	Amend the wording of row 8 of the Telecommunications Section of Activity Table 14.1 as follows;	<b>Support</b> 32-5x250, 36-5x282 Vector Ltd

		<i>'ANTENNAS attached to a BUILDING (excluding a MAST) that do not exceed; <del>4m<sup>2</sup></del> 1.2m<sup>2</sup> in area or <del>4m</del> 1.2m in diameter, or...'</i>	<b>Support</b> 32-5x451, 36-5x487 Broadcast Communications Ltd
TelstraClear Ltd, Vodafone NZ Ltd	32/6, 36/6	To make the wording consistent with terminology elsewhere in the Table, amend wording in P column of row 8 and C column of row 9 as follows;  <i>'All <del>other</del> zones other than Residential, Recreation and Special Purpose 3-11 and 13 zones'</i>	<b>Support</b> 32-6x251, 36-6x283 Vector Ltd
Woosh Wireless Ltd	40/15	Oppose activity status in row 9 of Table 14.1 Activity Status Telecommunications (where Antennas attached to a building are do not exceed 2.5m <sup>2</sup> or 2m in diameter). The activity status should be controlled activity in all zones.	
Woosh Wireless Ltd	40/16	Oppose activity status in row 10 of Table 14.1 Activity Status Telecommunications (where Antennas attached to a building are permitted or controlled activities and do not comply with Rule 14.5.3.2). The activity status should be a controlled activity in all zones.	

### 1.18.1 Discussion

Submission A10 requests that antennas up to 4m in diameter be allowed. Antennas of this size are permitted by way of discretionary activity resource consent but not as a permitted activity. An antenna 4m across is considered too large to allow as a permitted activity. The need to ensure such dishes are located appropriately was one of the reasons for the initiation of plan change 18. The submission and associated further submission are rejected.

Submission 40/13 supports row 7 of Table 14.1. The submission is accepted, but only in part, as the recommendation is that the second bullet point should be removed in order to simplify the implementation of the plan. Antennas of 1m<sup>2</sup> and 1m in diameter are now permitted activities, without restriction, in all zones. See the proposed redraft and also the discussion below under Placement 14.5.3.2.1b). Similarly submission 40/14 is supported but this has been amended to remove the placement controls in the second bullet point and make the rule apply only to those antennas of 1.5m<sup>2</sup> or 1.4m in diameter. Both submissions are accepted in part.

Submission 31/4 opposes a controlled activity status in Table 14.1 for antennas in Residential, Recreation and Special Purpose 3-11 or 13 zones that are within the existing profile of a building. It is not considered that all antennas over 1m<sup>2</sup> should be permitted activities in these zones if they are within the building profile. In residential zones antennas above this size, and panel antennas generally, are unusual. It is also difficult to explain in a permitted activity rule what is within the building profile, which is why it is recommended that the placement provisions in this rule should be deleted. This submission and associated further submission are rejected.

Submission 32/5 and 36/5 request that in Business, Rural and Special Purpose 1,2 or 12 zones, antennas should be increased to 1.2m<sup>2</sup> and 1.2m in diameter as permitted activities. It is recommended that the placement controls in row 8 of the Telecommunications section of the Activity Table be deleted and antennas of 1.5m<sup>2</sup> and 1.4m in diameter be accepted as permitted activities. The reasoning in the submission is accepted in that these are generally areas of lower amenity and the attempt in the second bullet point to locate antennas smaller than this size in more 'appropriate' locations is unnecessary. The further submissions are also accepted.

Submission 32/6 and 36/6 suggests a wording change for consistency. This is not considered necessary as the phrase "all other zones" is used consistently throughout the table when there is more than one zone or zone subset in other boxes. For example, "all other zones" will be the foil to "residential, recreation and Special purpose 3-11 and 13 zones". However where there is only 1 zone or zone subset, 'all zones other than...' is used, eg in line 22 of the Telecommunication section where 'all zones other than rural zones is used'. The submission is rejected.

Submission 40/15 is rejected. It is not usual to locate commercial antennas on residential property in residential zones – hence it is not considered that this rule restricts the opportunity to establish a city wide telecommunication utility network. Furthermore, antennas of this size are not in general residential private use and do have an impact on surrounding amenity if not sensitively located, so it is considered important that Council has an ability to refuse these antennas.

Submission 40/16 requests that antennas that are permitted or controlled activities but do not comply with the development controls in 14.5.3.2 should be controlled activities and not restricted discretionary. The envelope of development controls that is envisaged provides for those structures which have minimal effects. Structures falling outside that envelope are regarded more seriously and it is considered important for Council to have the opportunity to refuse these structures in the event that their effects are more than minor. The submission is rejected.

### 1.18.2 Recommendation

Submissions A10 and further submissions 26-18x683 and 64-10x1102 are rejected.

Submissions 40/13 and 40/14 are accepted in part.

Submissions 31/4 and further submissions 31-4x448, 31-4x1196 and 31-4x1183 are rejected.

Submissions 32/5, 36/5 and further submissions 32-5x250, 36-5x282, 32-5x451, 36-5x487 are accepted.

Submissions 32/6, 36/6 and submissions 32-6x251 and 36-6x283 are rejected.

Submissions 40/15 and 40/16 are rejected.

## 1.19 Section 14.5.3.2.1 Antennas attached to buildings in Residential, Recreation and Special Purpose 3-11 and 13 zones

### 1.19.1 Height of antennas 14.5.3.2.1 a)i)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Telecom NZ	31/12	Oppose 14.5.3.2.1a) i) Antennas attached to Buildings. Delete this development control as it is unclear and difficult to apply in practice, or amend to the satisfaction of Telecom to provide certainty for telecommunication providers.	<b>Support</b> 31-12x1200 TelstraClear Ltd  <b>Support</b> 31-12x1187 Vodafone NZ Ltd
North Shore Amateur Radio Club Inc	229/3	Oppose the proposal in 14.5.3.2.1 (a)(i) Antennas to limit antenna height to 2m above the building to which it is attached.	
New Zealand Association of Radio Transmitters (Inc)	20/6	Allow antennas and their supporting structures mounted on buildings to a maximum height of 18 m.	<b>Support</b> FS Group
Various submitters	A34	Oppose 14.5.3.2.1a)i) (antenna not exceed point of attachment by more than 2 m)	<b>Support</b> 26-42x707, 64-34x1126 M D Newman
Various submitters	A8	Remove the application of height control planes to amateur antennas and their supporting structures	<b>Support</b> 26-16x681, 64-8x1100 M D Newman
New Zealand Association of Radio Transmitters (Inc)	20/3	Height limitations should not be applied directly to antennas.	<b>Support</b> FS Group
Peter Smith	26/7	Oppose the application of 14.5.3.2.1 a)i) to licensed radio amateurs. Amend clause by deleting the words 'to which it is attached'.	<b>Support</b> 26-7x672 M D Newman
Various submitters	A7	Allow the height of antennas mounted on buildings to be no less than for antennas on other supporting structures	<b>Support</b> 26-15x680, 64-7x1099 M D Newman
New Zealand Association of Radio Transmitters (Inc)	20/10	Allow amateur radio communication dish antennas to a maximum diameter of 4 m, provided they do not exceed 5m in height.	<b>Support</b> FS Group
New Zealand Association of Radio Transmitters (Inc)	20/11	Allow amateur radio communication dish antennas to a maximum height of 12 m, provided they do not exceed 1.2m in diameter.	<b>Support</b> FS Group

### 1.19.2 Discussion

Submission 31/12 opposes rule 14.5.3.2.1 a)i) and recommends its deletion or amendment to provide clarity to the rule. It is accepted that this rule should be redrafted to provide clarity. A suggested amendment is contained in the attached amended plan change, and details that the height should not exceed the point of attachment to the building by more than 2m. It is also accepted that it is unclear whether the antenna may

exceed the height of the zone and this is made explicit in the suggested amendments. The submission is accepted.

Submission 229/3 opposes the limitation on antenna height to 2m above the building to which it is attached. The submission discusses the restrictions this rule would impose on lengths of antennas and gain available from the antennas. In terms of the plan change the submission seems to confuse the definition of antennas with aerials. The concerns expressed in the submission do not apply to antennas, and the submission is rejected. Submission A34 also opposes this rule. It is considered that a height limit 2m above the point of attachment is sufficient to fit an antenna with a dimension of 1.4m, which is the size of dish allowed as a controlled activity. This submission is rejected. Submission 20/6 requests that antennas on buildings should be permitted up to 18m and this is not accepted. It is also considered that it is appropriate for antennas to be subject to height limitations and submissions A8 and 20/3 are rejected.

Submission 26/7 requests that rule 14.5.3.2.1 a)i) not apply to licensed radio amateurs. It is considered that radio amateurs should comply with the same rules in respect of antennas that others have to comply with. The submission is rejected.

A7 requests that the height of antennas mounted on buildings should be no less than those mounted on other structures. Policy 9 encourages antennas onto buildings rather than masts as buildings have more capability to assimilate the visual impact of antennas than, if, for example, it is on a mast. It is therefore considered that antennas attached to buildings should be permitted to be higher on buildings than on other structures. As the submission requests that antennas on buildings should be no less in height than on other structures, the submission is accepted.

Submissions 20/10 and 20/11 specify different combinations of height and antenna size, with the antenna size decreasing as the height increases. Neither of these examples is considered appropriate. Antenna dishes that are 4m in diameter are considered as a discretionary activity in residential zones, and height control for antennas 1.2 m in diameter are considered in relation to the building height. These submissions are rejected.

### 1.19.3 Recommendation

Submission 31/12 and further submissions 31-12x1200 and 31-12x1187 are accepted.

Submissions 229/3, A34, A8, 20/3 and further submissions 26-42x707, 64-34x1126, 26-16x681, 64-8x1100 and an FS Group submission are rejected.

Submission 26/7 and further submission 26-7x672 are rejected.

Submissions A7 and further submissions 26-15x680 and 64-7x1099 are rejected.

Submissions 20/6 and an FS Group submission are rejected.

Submissions 20/10 and 20/11 and an FS Group submission are rejected.

### 1.19.4 Numbers of antennas 14.5.3.2.1 a)ii)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Woosh Wireless Ltd	40/29	Delete S 14.5.3.2.1(a)(ii), which concerns the numbers of permitted antennas per residential unit.	
Various submitters	A35	Oppose 14.5.3.2.1a)ii) (no more than 2 antennas per residential unit)	<b>Support</b> 26-43x708, 64-35x1127 M D Newman
Dr David Black	4/3	Oppose restrictions on the number of antennas allowed on a property.	<b>Support</b> 4-3x665 M D Newman
North Shore Amateur Radio Club Inc	229/4	Oppose the restriction in 14.5.3.2 (a)(ii) limiting Antenna numbers to two per residential unit.	
Various submitters	A11	No limitation on numbers of amateur antennas and their supporting structures.	<b>Support</b> 26-19x684, 64-11x1103 M D Newman
New Zealand Association of Radio Transmitters (Inc)	20/12	No limit to the number of antennas installed on any site.	<b>Support</b> FS Group

### 1.19.5 Discussion

Submission 40/29 opposes S14.5.3.2 a)ii) as it restricts the opportunity to establish a city wide telecommunication network. It is considered that these development controls achieve an acceptable balance between amenity and the requirements of utility operators and households. The submission is rejected. Submission A 35 is also rejected.

Submission 4/3 also opposes restrictions on the numbers of antennas on a property. The submission concentrates on amateur radio equipment, the most important aspect of which is aerials (as this definition is used in this plan change). Changes have been recommended to the development controls concerning aerials. The limitation on antennas is not considered to hinder the activities of radio amateurs and the submission is rejected.

S229/4 also opposes this section. However it confuses the definition of aerials and antennas that are used in the plan change. Antennas are the dish antenna such as Sky dishes. Aerials are those structures similar to the standard TV aerial and radio amateur aerial. Consequently a sky dish on a stand alone residential unit will not preclude another antenna being placed on the property, and does not relate to the numbers of aerials on a property. The submission is rejected, as is A11 and 20/12.

### 1.19.6 Recommendation

Submissions 40/29, A35 and further submissions 26-43x708 and 64-35x1127 are rejected.

Submission 4/3 and further submission 4-3x665 are rejected.

Submission 229/4, A11, 20/12 and further submission 26-19x684, 64-11x1103 and an FS Group submission are rejected.

### 1.19.7 Yards 14.5.3.2.1 a)iii)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Woosh Wireless Ltd	40/30	Delete S 14.5.3.2.1(a)(iii) which concerns the distance between an antenna and the site boundary.	
Various submitters	A36	Oppose 14.5.3.2.1a)iii) (no antennas closer than 1 m to boundary)	<b>Support</b> 26-44x709, 64-36x1128 M D Newman
Shirley Squire	28/3	Support 14.5.3.2.1 a) iii), that antennas should not be located closer than one metre to a site boundary.	

### 1.19.8 Discussion

Submissions 40/30 and A36 oppose the limitation regarding antennas being no closer than 1 metre from a site boundary. This proposed yard control is a reduction of the usual residential yard controls and it is considered that reducing it further or eliminating it entirely is not good resource management practice. The submissions are rejected. Submission 28/3 supports the proposed development control and is accepted.

### 1.19.9 Recommendation

Submission 40/30, A 36 and further submissions 24-44x709 and 64-36x1128 are rejected.

Submission 28/3 is accepted.

### 1.19.10 Placement 14.5.3.2.1 b)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Broadcast Communications Ltd	5/9	Oppose Rule 14.5.3.2.1 b) Placement of Antennas attached to Buildings and delete in its entirety. Make any consequential amendments to the plan to manage antennas (height and location on roof structures) through the bulk and location rules and exceptions to them under the definitions in the plan.	<b>Support</b> 5-9x1178 Vodafone NZ Ltd <b>Support</b> 5-9x1191 TelstraClear Ltd
Brian Cumber	10/2	Oppose 14.5.3.2.1 b) i) Placement, as location may be dictated by direction of signal.	
Various submitters	A37	Oppose 14.5.3.2.1b)i) (antenna placement)	<b>Support</b> 26-45x710, 64-37x1129 M D Newman
North Shore Amateur Radio Club Inc	229/5	Oppose the proposal in 14.5.3.2 (b)(ii) regarding Placement of Antennas as any restriction is likely to impede communication for amateur radio UHF installations that rely on line of sight communication to a repeater station.	

Telecom NZ	31/10	Oppose 14.5.3.2.1 b) ii) Antennas in Residential, Recreation and Special Purpose 3-11 and 13 zones. Delete this development control as it is ambiguous.	<b>Support</b> 31-10x447 Broadcast Communications Ltd <b>Support</b> 31-10x1198 TelstraClear Ltd <b>Support</b> 31-10x1185 Vodafone NZ Ltd
Various submitters	A38	Oppose 14.5.3.2.1b)ii) (visibility of antenna)	<b>Support</b> 26-46x711, 64-38x1130 M D Newman
Shane Kuzmanic	232/1	Oppose rule concerning limitations on placement of satellite dishes where they can be seen from a road or public place.	<b>Support</b> 232-1x440 Broadcast Communications Ltd

### 1.19.11 Discussion

These submissions oppose rule 14.5.3.2.1b) and are accepted. The proposed rule is not consistent with policy 9 that encourages antennas on buildings where possible. It is also considered that implementation of the rule may prove problematic as the potential application of the rule is ambiguous and may extend to situations that are beyond the envisaged application. There is the option of redrafting the rule but in the interests of simplifying the interpretation and implementation of the plan it is recommended that it be deleted. All submissions are accepted. See also the discussion regarding placement in other zones (rule 14.5.3.2.2 b)) in the next section.

### 1.19.12 Recommendation

Submissions 5/9, 10/2, A37, 229/5, 31/10, A38, 232/1 and further submissions 5-9x1178, 5-9x1191, 26-45x710, 64-37x1129, 31-1-x447, 31-10x1198, 31-10x1185, 26-46x711, 64-38x1130 and 232-1x440 are accepted.

## 1.20 Section 14.5.3.2.2 Antennas attached to buildings in other zones

### 1.20.1 Height of antennas – 14.5.3.2.2 a) i)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Telecom NZ	31/12	Oppose 14.5.3.2.2 a) i) Antennas attached to Buildings. Delete this development control as it is unclear and difficult to apply in practice, or amend to the satisfaction of Telecom to provide certainty for telecommunication providers.	
Various submitters	A39	Oppose 14.5.3.2.2a)i) (antennas in rural zones not greater than 3m above roof)	<b>Support</b> 26-47x712, 64-39x1131 M D Newman

### 1.20.2 Discussion

Submission 31/12 opposes rule 14.5.3.2.2 a)i) and recommends its deletion or amendment to provide clarity to the rule. It is accepted that this rule should be redrafted to provide clarity. A suggested amendment is contained in the attached amended plan change, and details that the height should not exceed the point of attachment to the building by more than 2m. It is also accepted that it is unclear whether the antenna may exceed the height of the zone and this is made explicit in the suggested amendments. The submission is accepted.

Submission A39 opposes the height restriction for antennas that are more than 3m above the point of attachment to a building. While it is accepted that there is less of a viewing audience in rural zones, two of the four zones are considered landscape areas in which building controls are reasonably strict. It is a controlled activity for antennas up to 2m in dimension in rural zones, and it is considered sufficient to fit such an antenna within a 3m envelope above the point of attachment to the building. It is also preferred to have an antenna of this size located within the profile of the building, so it is not considered appropriate to allow an antenna to extend more than 3m above the point of attachment. The submission and associated further submissions are rejected.

### 1.20.3 Recommendation

Submission 31/12 is accepted.

Submission A39 and further submissions 26-47x712 and 64-39x1131 are rejected.

#### 1.20.4 Numbers of antennas and yards – 14.5.3.2.2 a) ii) and 14.5.3.2.2 a) iii)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Broadcast Communications Ltd	5/10	Oppose Rule 14.5.3.2.2(a) (ii) Numbers of Antennas and delete this rule. Make any necessary consequential amendments.	
Woosh Wireless Ltd	40/31	Delete S 14.5.3.2.2(a)(ii) which concerns the numbers of antenna attached to the façade of residential units in the business zones.	<b>Support in part</b> 40-31x1203 TelstraClear Ltd <b>Support</b> 40-31x1177 Telecom NZ <b>Support in part</b> 40-31x1190 Vodafone NZ Ltd
Various submitters	A40	Oppose 14.5.3.2.2a)ii) (no more than one antenna attached to façade)	<b>Support</b> 26-48x713, 64-40x1132 M D Newman
Various submitters	A41	Oppose 14.5.3.2.2a)iii) (antennas subject to yard controls)	<b>Support</b> 26-49x714, 64-41x1133 M D Newman

#### 1.20.5 Discussion

Submission 5/10 argues that limiting the numbers of antennas to 1 on the façade of each residential unit is not justified as other buildings in business zones are not limited in the same manner, and there is no effects based rationale for limiting numbers in this manner. It is considered that there is rationale for limiting the numbers of antennas as there are many historical residential blocks in business zones that have mixed levels of amenity, despite the fact they are located in a business zone. Council is also looking at introducing a new mixed use business zone which is partially business and partially residential amenity. Furthermore, antennas are not limited in number on the whole of the building, but just on the façade of residential units. It is considered that a limit of 1 antenna on the exterior façade of each residential unit in business zones is not unjustified. The submission is rejected. For the same reasons, submissions 40/31, A 40 and the associated further submission are rejected.

Submission A41 opposes the application of yard controls to antennas in Business, Rural and Special Purpose 1,2 and 12 zones, It is considered reasonable that antennas be subject to the yard controls for these zones in which they are located, and this submission and its associated further submission are rejected.

#### 1.20.6 Recommendation

Submissions 5/10, 40/31, A40 and further submissions 26-48x713, 40-31x1203, 40-31x1177, 40-31x1190 and 64-40x1132 are rejected.

Submissions A 41 and further submissions 26-49x714 and 64-41x1133 are rejected.

#### 1.20.7 Placement – 14.5.3.2.2 b)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Telecom NZ	31/11	Oppose 14.5.3.2.2 b) Antennas in Business, Rural, Special Purpose 1,2 and 12 zones. Delete this development control as it does not apply in any zones and is unnecessary if located entirely within the building profile.	<b>Support</b> 31-11x449 Broadcast Communications Ltd <b>Support</b> 31-11x1199 TelstraClear Ltd <b>Support</b> 31-11x1186 Vodafone NZ Ltd
Broadcast Communications Ltd	5/11	Oppose Rule 14.5.3.2.2(b) Location of Antennas. Delete this rule in its entirety and make any necessary consequential amendments to the plan.	<b>Support</b> 5-11x1162 Telecom NZ <b>Support</b> 5-11x1179 Vodafone NZ Ltd <b>Support</b> 5-11x1192 TelstraClear Ltd
Various submitters	A42	Oppose 14.5.3.2.2b)i) (antenna located below peak of roofline)	<b>Support</b> 26-50x715, 64-42x1134 D Newman
Various submitters	A43	Oppose 14.5.3.2.2b)ii) (antenna should not be on front façade)	<b>Support</b> 26-51x716, 64-



			43x1135 M D Newman
TelstraClear Ltd, Vodafone NZ Ltd	32/7, 36/7	Delete rule 14.5.3.2.2 b) and amend the wording of row 8 of the Telecommunications Section of Activity Table 14.1 as follows; <ul style="list-style-type: none"> <li>• 'ANTENNAS attached to a BUILDING (excluding a MAST) that do not exceed;</li> <li>• 1m<sup>2</sup> in area or 1m in diameter, or</li> <li>• 1.5m<sup>2</sup> in area or 1.4m in diameter, are located in Business, Rural and Special Purpose 1,2 or 12 zones, <del>and complies with Rule 14.5.3.2.2 b)</del></li> </ul>	<b>Support</b> 32-7x452 Broadcast Communications Ltd

### 1.20.8 Discussion

These submissions oppose rule 14.5.3.2.2 b). The purpose of the rule is to obtain appropriate placement of antennas that are between 1m<sup>2</sup> in area or 1m in diameter and 1.5m<sup>2</sup> in area or 1.4m in diameter. The submissions reason that amenity levels in Business, Rural and Special purpose zones 1,2 and 12 are less sensitive than in other zones and antennas of this size are considered appropriate in these zones without this sort of restriction. This reasoning is accepted. It is also considered that removing these rules will simplify the implementation of the plan and is consistent with one of the policies of the plan change which is to encourage antennas to locate on buildings rather than masts. It is recommended that rule 14.5.3.2.2 b) be deleted.

It is noted that the rule applies to all Business zones. It is considered that the recommendation to allow all antennas up to 1.5m<sup>2</sup> or 1.4m in dimension as permitted activities could have an adverse effect in Business 1 zones, which are largely areas that are 'spot zoned' in residential areas. The characteristics of this zone are more consistent with residential zones and it is considered that antennas in this zone should be subject to similar restrictions as the residential zone. Amendments have been made accordingly.

These submissions are accepted in part.

### 1.20.9 Recommendation

Submissions 31/11, 5/11, A42, A43, 32/7, 36/7 and further submissions 31-11x449, 31-11x1199, 31-11x1186, 5-11x1162, 5-11x1179, 5-11x1192, 26-50x715, 64-42x1134, 26-51x716, 64-43x1135 and 32-7x452 are accepted in part.

### 1.21 Masts

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Telecom NZ	31/5	Oppose in part row 11 in Activity Table 14.1 Telecommunications - 'Masts in accordance with the height limits in 14.5.3.3'. Amend rule to allow masts that comply with the height limit and other development controls of the zone, and also with height limits in S14.5.3.3., to be a permitted activity in Business and Rural zones.	<b>Support</b> 31-5x445 Broadcast Communications Ltd
Various submitters	A51	Oppose definition of 'Mast'	<b>Support</b> 26-59x724, 64-51x1143 M D Newman
Various submitters	A20	Oppose rules in Activity Table 14.1 that attempt to control masts	<b>Support</b> 26-28x693, 64-20x1112 M D Newman
Various submitters	A44	Oppose 14.5.3.3 (limits on height of masts)	<b>Support</b> 26-52x717, 64-44x1136 M D Newman
Various submitters	A6	Increase the height limits for amateur aerial and antenna supporting structures to 18 metres.	<b>Support</b> 26-14x679, 64-6x1098 M D Newman
New Zealand Association of Radio Transmitters (Inc)	20/2	Allow antennas supporting structures to a height of 18 m.	<b>Support</b> FS Group
New Zealand Association of Radio Transmitters (Inc)	20/5	Allow self supporting lattice mast supporting structures with maximum horizontal dimensions of; <ul style="list-style-type: none"> <li>• 800mm to a maximum height of 8 m</li> <li>• 650 mm to a maximum height of 14 m</li> <li>• 450mm to a maximum height of 18 m</li> </ul>	<b>Support</b> FS Group

New Zealand Association of Radio Transmitters (Inc)	20/4	Allow the use of guyed pole antenna supporting structures without bulk dimension constraints.	<b>Support</b> FS Group
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### 1.21.1 Discussion

Submission 31/5 argues that development in business and rural zones that comply with height limits and other development controls of the zone should be permitted. Development in business zones is nearly always a controlled activity – see 15.5.1.3. It is not considered appropriate that masts are given special consideration. In rural zones the location of masts is considered important and it is not considered appropriate that they should be permitted activities. The submission is rejected.

Submission A51 opposes the definition of mast. A new category of private pole aerials has been created to recognise the activities of amateur radio operators. The definition of mast excludes activities that are private pole aerials and the submission is accepted in part.

Submission A20 objects to rules in the activity table that control masts – it is considered that control is required over these structures and the submission is rejected. Submission A44 opposes the height controls on masts. It is not considered that changing the height controls that apply to masts in 14.5.3.3 is necessary and the height of private pole aerials in residential and rural zones is the same as the height controls in 14.5.3.3. The submission is rejected. Submission A6 argues that antenna supporting structures should be allowed to a height of 18m. The potential adverse effect on local amenity of structures this high is considered beyond the scope of a permitted activity. For private pole structures at this height a restricted discretionary activity application is required. This submission and the similar submission 20/2 are rejected.

Submission 20/5 suggests particular bulk and dimension constraints for latticed masts. The proposed height of the structures are beyond what is considered reasonable as a permitted activity, as is the maximum horizontal dimensions. In the proposed rules latticed masts are permitted to the height of the zone with a maximum horizontal dimension of 300mm. The submission is rejected. Submission 20/4 requests that guyed pole antennas are allowed as permitted activities, also without dimension constraints. The proposed private pole antennas allow guyed poles but as discussed, limit both the height and horizontal dimensions. The submission is accepted in part.

### 1.21.2 Recommendation

Submissions 31/5 and further submissions 31-5x445 and 64-51x1143 are rejected.

Submissions A51 and further submissions 26-59x724 and 64-51x1112 are accepted in part.

Submissions A44, A20, A6, 20/2 and further submissions 26-52x717, 64-44x1136, 26-28x693, 64-20x1112, 26-14x679, 64-6x1098 and one by the FS Group are rejected.

Submissions 20/5, 20/4 and two further submissions by the FS Group are accepted in part.

## 1.22 Section 14.5.3.3 Height of masts and antennas attached to masts and streetlights

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Broadcast Communications Ltd	5/12	Oppose part of Rule 14.5.3.3 Height of masts and antennas attached to masts. Amend the Rule in the Table to allow the height of masts and antennas attached to masts to make provision for a mast to be 3m greater than the height of buildings in the zone for residential zones. Provide an exception to the height of antennas when antennas are being added to existing utility masts that are above the heights specified in the table in Rule 14.5.3.3 as long as the addition of the antenna does not increase the non compliant height of the mast. Make any necessary consequential amendments to the plan.	<b>Support</b> 5-12x1180 Vodafone NZ Ltd  <b>Support</b> 5-12x1193 TelstraClear Ltd
Woosh Wireless Ltd	40/32	Amend 14.5.3.3 Height of masts and antennas attached to masts, to provide for maximum height for masts in all zones to be 20m. Also amend to enable antenna on the mast to be provided for above the maximum mast height.	
Woosh Wireless Ltd	40/17	Oppose activity status in row 11 of Table 14.1 Activity Status Telecommunications (Masts in accordance with the height limits in 14.5.3.3). Amend all activity statuses in this rule so they are a controlled activity in all zones.	
Woosh Wireless Ltd	40/18	Oppose activity status in row 12 of Table 14.1 Activity Status Telecommunications (Antennas attached to a mast that do not	

		exceed 1m <sup>2</sup> in area or 1m in diameter). Amend activity statuses in this rule so they are a controlled activity in all zones.	
Woosh Wireless Ltd	40/19	Oppose activity status in row 13 of Table 14.1 Activity Status Telecommunications (Antennas attached to a mast that do not exceed 2.5m <sup>2</sup> in area or 2m in diameter). Amend activity statuses in this rule so they are a controlled activity in all zones.	
Woosh Wireless Ltd	40/20	Oppose activity status in row 14 of Table 14.1 Activity Status Telecommunications (Antennas attached to street lights). Amend activity statuses in this rule so they are a controlled activity in all zones.	
Woosh Wireless Ltd	40/21	Oppose row 15 of Table 14.1 Activity Status Telecommunications (up to 3 Antennas attached to a mast or street light). Amend all activity statuses in this rule so they are a controlled activity in all zones.	
Woosh Wireless Ltd	40/22	Oppose activity status in row 16 of Table 14.1 Activity Status Telecommunications (up to 4 Antennas attached to a mast or street light). Amend activity statuses in this rule so they are a controlled activity in all zones.	
TelstraClear Ltd, Vodafone NZ Ltd	32/8, 36/8	Amend the wording of row 12 of the Telecommunications Section of Activity Table 14.1 as follows; <i>'ANTENNAS attached to a MAST that do not exceed 4m<sup>2</sup> 1.2m<sup>2</sup> in area or 4m 1.2m in diameter'</i> . Amend the Activity Status of the controlled activities in row 11 and 12 to permitted.	<b>Support</b> 32-8x453, 36-8x458 Broadcast Communications Ltd <b>Support in part</b> 32-8x1164, 36-8x1172 Telecom NZ
TelstraClear Ltd, Vodafone NZ Ltd	32/13, 36/13	Amend the wording of row 14 of the Telecommunications Section of Activity Table 14.1 as follows; <i>'RR - ANTENNAS attached to street lights provided that; the ANTENNA does not exceed 4m<sup>2</sup> 1.2m<sup>2</sup> in area or 4m in diameter, and the height of the ANTENNA does not exceed the height of the existing structure by more than or 2.5m or 25 percent of the height of the structure, whichever is greater, and up to 3 ANTENNAS may be attached to a street light'</i> . Amend activity status to permitted in all zones. Delete row 15 of the Telecommunications Section of Activity Table 14.1.	<b>Support</b> 32-13x455 Broadcast Communications Ltd <b>Support in part</b> 32-13x1166, 36-13x1174 Telecom NZ
Telecom NZ	31/6	Support in part row 14 in Activity Table 14.1 Telecommunications - 'Antennas attached to street lights...'. Amend the rule to allow a percentage increase in diameter (eg 25%). This will take account of a situation where the diameter of the replacement light pole may need to increase to provide strength to the pole.	<b>Support</b> 31-6x1184 Vodafone NZ Ltd <b>Support</b> 31-6x1197 TelstraClear Ltd
Telecom NZ	31/7	Oppose row 15 in Activity Table 14.1 Telecommunications - Restriction on more than 3 antennas attached to a mast or streetlight. Amend this rule so there is no restriction on antenna numbers if a free standing facility (without support arms) is within zone building envelope controls, and with a limit of at least 6 in other situations if mounted flush against the mast.	<b>Support</b> 31-7x446 Broadcast Communications Ltd
TelstraClear Ltd, Vodafone NZ Ltd	32/9, 36/9	Amend the wording of row 16 of the Telecommunications Section of Activity Table 14.1 as follows; <i>'Up to 4 ANTENNAS attached to a MAST or streetlight, provided that where there are 4 ANTENNAS, only one may be a dish ANTENNA and it may not have a diameter greater than 600mm 1.2m'</i> Make this activity permitted in Business, Rural and Special Purpose zones, and limited discretionary in all other zones.	

### 1.2.2.1 Discussion

Submission 5/12 requests that masts and antennas attached to masts should be 3m higher than the permitted height of the zone in residential zones. Currently the height is limited to the height of the zone as a restricted discretionary activity. This is structured like this as it encourages antennas onto streetlights (which have a higher height limit at the same activity level) and buildings. An applicant can go higher than the height of the zone but only by way of discretionary activity application. The submission also requests, to encourage co-location, that additional antennas should not be restricted provided the mast height does not increase. The policy regarding co-location encourages this but it also recognises that cumulative visual effects can outweigh the benefits of co-location. It is Council policy generally that a greater number of masts

are preferred with less equipment on them, so it is not considered appropriate that additional antennas should be permitted as of right. Antennas are subject to a separate consent from the mast. Furthermore, regardless of whether it is the mast or an antenna that increases height, the effect is similar in that the structure is taller. It is not considered relevant which one increases height which is why the height of the mast is set as the upper limit and antennas cannot exceed this. The submission is rejected.

Submission 40/32 requests that the height of masts should be 20m in all zones and that antennas should be permitted to be above the height of the mast. It is not considered acceptable to have a 20m height limit across all zones as some are more sensitive than others. As discussed in the submission above, it is also not considered that antennas should be permitted to go higher than the height of the mast. The submission is rejected.

Submissions 40/17, 40/18, 40/19, 40/20, 40/21, 40/22 request that rules for masts and antennas attached to masts and streetlights should be a controlled activity in all zones. This is not accepted as in more sensitive zones it is considered that Council should have the opportunity to refuse the activities where appropriate. The submissions are rejected.

Submissions 32/8 and 36/8 request that masts should be permitted activities in business zones, as should antennas attached to masts in those zones. Development in business zones is nearly always a controlled activity – see 15.5.1.3. It is considered to important for Council to have some control over location for amenity and urban design reasons. It is also consistent with the policy to place antennas on buildings rather than masts. Allowing masts and antennas as permitted activities would not achieve this goal. Furthermore, allowing antenna dishes to 1.2m as permitted or controlled activities is not considered appropriate for the reasons discussed in the previous submissions and as they are relatively big they should invoke a more restrictive resource consent requirement. The submissions are rejected.

Submissions 32/13 and 36/13 request the amendment of rules relating to streetlights. It is not considered that allowing roadside solutions as permitted activities is necessary to achieve the purpose of the Act. Row 15 in the Telecommunication section of the Activity Table has not been deleted as requested as this continues to apply differently in different zones. Furthermore, the submission does not explain why it is considered necessary to increase the size of panel antennas from 1m<sup>2</sup> to 1.2m<sup>2</sup>. It is noted that both this submission and submission 31/7 accept that 3 panel antennas on roadside solutions are appropriate. It is understood that streetlights having only panel antennas attached to them can be more flexible than those with a satellite dish attached, as the satellite dish signal requires the pole to be extremely rigid. Consequently the frangibility of the pole is compromised, which may affect traffic safety. The ability to attach satellite dishes at the activity statuses outlined are therefore removed from roadside solutions. The submissions are accepted in part.

Submission 31/6 suggests the allowance of an increase in diameter of 25% to allow for changes in design of poles and to make them more robust where to cope with the demands of the antennas. This submission is accepted, although as discussed above, the frangibility of the replacement poles will need to be acceptable to Council's roading engineers.

Submission 31/7 requests that antenna numbers attached to a mast be unlimited when a mast is within zone development controls, with a limit of at least 6 in other situations if mounted flush against the mast. For the reasons discussed above, it is not considered appropriate to allow unlimited numbers of antennas attached to masts. However it is accepted that particularly in business zones an increased number of antennas should be allowed as controlled activities. A suggested limit of 7 is allowed with one of those being a dish antenna to 600mm diameter. See the attached amendments. The submission is accepted in part.

Submission 32/9 and 36/9 are accepted in part. The amendment with respect to the deletion of 'or streetlight' is accepted and the number of antennas as a controlled activity in business and associated zones increases to 7. However it is considered that the size of the permitted dish antenna should remain at 600mm and the activity should not be permitted, but should remain at least a controlled activity. The submissions are accepted in part.

### **1.22.2 Recommendation**

Submission 5/12 and further submissions 5-12x1180 and 5-12x1193 are rejected.

Submission 40/32 is rejected.

Submissions 40/17, 40/18, 40/19, 40/20, 40/21, and 40/22 are rejected.

Submissions 32/8, 36/8 and further submissions 32-8x453, 36-8x458, 32-8x1164 and 36-8x1172 are rejected.

Submissions 32/13, 36/13 and further submission 32-13x455, 32-13x1166 and 36-13x1174 are accepted in part.

Submission 31/6 and further submissions 31-6x1184 and 31-6x1197 are accepted.

Submission 31/7 and further submission 31-7x446 are accepted in part.

Submissions 32/9 and 36/9 are accepted in part.

### 1.23 Section 14.5.3.4 Development of two or more residential units per building

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Broadcast Communications Ltd	5/13	Oppose Rule 14.5.3.4 Development of two or more residential units per building. Amend the Rule as follows and make any necessary consequential amendments to the Plan;  <i>Any development that contains two or more residential units in a single building shall connect each individual residential unit to a <u>no more than three</u> central aeri<u>als</u> and a <u>four</u> central antenn<u>as</u>. The connection, antenna and aerial shall enable the supply of free to air television, <del>and</del> satellite television and access to a limited number of fixed Internet Service Providers to each residential unit in the building, to avoid the need for each unit to have a separate aerial or antenna.</i>	<b>Support</b> 5-13x1181 Vodafone NZ Ltd  <b>Support</b> 5-13x1194 TelstraClear Ltd

#### 1.23.1 Discussion

Submission 5/13 opposes rule 14.5.3.4 as it is perceived that this rule will limit the number of aerials and antennas permitted on intensive residential units. Actually, rule 14.5.3.1 - Aerials and 14.5.3.2 - Antennas control these activities. Rule 14.5.3.4 merely encourages people to use the central aerial and antenna via the plugs in their wall, rather than erecting a new aerial or antenna of their own. It encourages their use but does not require it. Residential units are still free to erect their own aerials and antennas on their own units, subject to the controls in the provisions referred to above. The submission is rejected.

#### 1.23.2 Recommendation

Submission 5/13 and further submissions 5-13x1181 and 5-13x1194 are rejected.

### 1.24 Section 14.5.3.5 Size and activity status of minor utility structures

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Vector Ltd	35/13	Amend row 4 of the Miscellaneous Section of Activity Table 14.1 Minor utility structure, to change the activity status for all zones to a Permitted activity, provided that Rules 14.5.2-14.5.4 are complied with.	<b>Support</b> 35-13x1202 TelstraClear Ltd  <b>Support</b> 35-13x1170 Telecom NZ  <b>Support</b> 35-13x1189 Vodafone NZ Ltd
Telecom NZ	31/1	Amend the rules for Minor Utility structures in Activity Table 14.1 Miscellaneous. Replace the standards with the following as permitted activities throughout the city;  <u>'Residential zones:</u> <u>Max height – 1.8m, Max volume 2.5m<sup>3</sup> Max number of cabinets per separate property frontage exceeding 900mm – 1 cabinet.</u> <u>Rural, Business and Mixed Use zones:</u> <u>Max Height – 2m, Max volume 3.5m<sup>3</sup></u>	
TelstraClear Ltd, Vodafone NZ Ltd	32/2, 36/2	Amend the wording of row 5 of the Miscellaneous Section of Activity Table 14.1 as follows;  <i>'RR - Any MINOR UTILITY STRUCTURE, which has a total <del>ground coverage</del> <u>volume</u> not exceeding <del>0.5m<sup>2</sup> in area</del> <u>2.5m<sup>3</sup></u> and has a height not exceeding <del>4m</del> <u>1.8m</u> above NATURAL GROUND LEVEL'</i> Amend activity classifications to ensure that all zones are permitted.	<b>Support</b> 32-2x247, 36-2x279 Vector Ltd
TelstraClear Ltd, Vodafone NZ Ltd	32/3, 36/3	Amend the wording of row 6 of the Miscellaneous Section of Activity Table 14.1 as follows;  <i>'...Does not exceed <del>4.8m</del> <u>2m</u> in height above NATURAL GROUND LEVEL, and...'</i> Amend activity classifications to ensure that Rural and Business	<b>Support</b> 32-3x248, 36-3x280 Vector Ltd

		zones are permitted, and all other zones are discretionary.	
Vector Ltd	35/14	Amend row 6 of the Miscellaneous Section of Activity Table 14.1 Minor utility structure to change the activity status for all zones to a permitted activity status.	
Vector Ltd	35/15	Amend row 7 of the Miscellaneous Section of Activity Table 14.1 Minor utility structure to change the activity status for all zones to a controlled activity status.	
Woosh Wireless Ltd	40/7	Oppose activity status of minor utility structure in Recreation 1 zone, in row 6 of Table 14.1 Activity Status Miscellaneous. Amend this from discretionary to controlled.	

### 1.24.1 Discussion

Submission 35/13 deals with the activity status of minor utility structures that are not located in the road reserve, and requests that the structures be made permitted in all zones. It is considered that this submission has some merit as with the increasing number of minor utility structures expected in the road reserve, allowing them as permitted activities, to a certain size, encourages them to locate outside the road reserve. It is recommended that activities in those zones currently classed as restricted discretionary be recognised as permitted activities, except for in the Residential 3 zone which should remain as a restricted discretionary activity. This is because the private property streetscape is important in this heritage zone. However, it is recommended that the size of minor utility structures allowed as permitted activities be limited to the same size as the size of controlled activities as expressed in row 6 of the miscellaneous section. This is to prevent structures having undue adverse effects on neighbouring properties. Structures bigger than this size will remain restricted discretionary activities in the more sensitive zones. It is not accepted that the activity status of recreation zones should be changed from a discretionary activity, as minor utility structures on reserves are discouraged.

As the change from limited discretionary to permitted activity outside the road reserve has been made it is also necessary to amend row 8 which is the 'catchall' provision for minor utility structures. Currently it applies only to activities in the road reserve, but it needs to relate to activities outside the road reserve as well. The submission is accepted in part.

Submissions 31/1, 32/2, 36/2, 32/3, 36/3, 35/14, and 35/15 all request that the permitted size of minor utility structures be increased from the sizes and activity statuses proposed, particularly in zones other than Rural and Business zones 7-10. It is not considered that amending the rules in line with these submissions will promote sustainable management. The increasing clutter in the road reserve means that, in more sensitive zones, it is more appropriate to deal with minor utility structures with a controlled activity status rather than as permitted activities. The Road Maintenance Team currently deals with structures that are permitted activities and they are not trained to deal with amenity considerations such as visual effects and effects on trees and the streetscape. It is considered that requiring consent for larger structures will result in a more robust process that results in improved environmental outcomes, particularly with the development controls that have been introduced regarding location of minor utility structures (discussed below). The current investigations into the possibility of setting national environmental standards concerning the size and activity status of telecommunication cabinets are acknowledged. North Shore City Council opposes such standards and these submissions are rejected. Note that the part of submission 31/1 to do with maximum numbers of structures per property frontage is discussed below.

Submission 40/7 opposes the discretionary activity status of minor utility structures in the Recreation 1 zone. See the discussion concerning this topic in submission 40/4 in Part 1.5.1. The submission is rejected.

### 1.24.2 Recommendation

Submission 35/13 and further submissions 35-13x1202, 35-13x1170 and 35-13x1189 are accepted in part. Submissions 31/1, 32/2, 36/2, 32/3, 36/3, 35/14, 35/15 and further submissions 32-2x247, 36-2x279, 32-3x248 and 36-3x280 are rejected. Submission 40/7 is rejected.

## 1.25 Section 14.5.3.5 Location of minor utility structures

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Telecom NZ	31/13	Oppose 14.5.3.5.1 Minor utility structures within the road reserve. Delete this development control or amend, to the satisfaction of	<b>Support</b> 31-13x245 Vector Ltd

		Telecom, to remove the matters already covered by road opening notice procedures and to allow only one utility structure exceeding height of 900mm, per property frontage, in all other zones except Business 7-10.	<b>Support</b> 31-13x1201 TelstraClear Ltd <b>Support</b> 31-13x1188 Vodafone NZ Ltd
Vector Ltd	35/30	Delete 14.5.3.5.1(a)iv), or amend as follows; <i>'...iv) do not obstruct access to underground network utilities or identified network utility corridors where practicable'</i>	
Vector Ltd	35/31	Delete 14.5.3.5.1(b), or amend as follows; <i>'not located more frequently than one structure every 50 metres where practicable'</i>	
TelstraClear Ltd, Vodafone NZ Ltd	32/4, 36/4	Amend S 14.5.3.5.1b) as follows; <i>'...b) not be located more frequently than one structure every 50 metres on each side of the road reserve. This rule excludes;</i> <i>i) Minor utility structures that are permitted activities</i> <i>ii) Business zones 7-10</i> <i>iii) Those structures located on Primary arterials as identified in Appendix 1 of the District Plan maps, regardless of the underlying zoning.</i>	<b>Support</b> 32-4x249, 36-4x281 Vector Ltd
Vector Ltd	35/32	Amend S 14.5.3.5.2 Minor utility structures that serve only one site, to permit minor utility structures to locate on road reserve where a site is unable to accommodate a minor utility structure.	
Kurt Marquart	54/5	Require utility companies to underground cabinets where feasible.	<b>Oppose</b> 54-5x297 Vector Ltd

### 1.25.1 Discussion

Submission 31/13 opposes 14.5.3.5.1 on the grounds that the matters expressed therein are overly prescriptive and many of the matters are already covered by the statutory road opening notice system. It is considered that the provisions need to be prescriptive as they are development controls for permitted and controlled activities, and there needs to be some certainty for the applicant. Some matters that are also covered by the road opening notice process have been included as in some cases the road maintenance team consider that their efforts to negotiate reasonable conditions are not heeded by utility companies. At other times road opening notices are simply not applied for so there is no opportunity to impose reasonable conditions on the location of the structures. For these reasons it is considered useful to include some of these matters in the District Plan as well. The submission also suggests that the limitation on structures should only be one every property frontage, not one every 50 m. A rule limiting the frequency to one cabinet per property frontage would mean that it is possible to have two structures effectively side by side, on either side of the boundary. Council would like to avoid this as it creates a 'wall' effect that has an adverse effect on amenity. Property frontages vary in length. In some zones one property frontage may be more than 50m whilst in a residential zone 50m would normally span no more than 3 property frontages. It is not considered that restricting structures to one every 3 property frontages is unreasonable. The submission is rejected.

Submission 35/30 argues that it will be almost impossible to comply with 14.5.3.5.1a)iv). It is accepted that on some occasions it will be difficult to locate a minor utility structure without obstructing access to underground network utilities or underground corridors. The addition of 'where practicable' is accepted. Likewise, submission 35/31 requests that the requirement to locate minor utility structures not more than one every 50m should be deleted or qualified by 'where practicable', because it will be almost impossible to comply with. It does not appear that this is an impossible requirement, as there are many street areas that are free of structures. If it is necessary for a utility operator to locate within 50m of another structure an application may be made via a restricted discretionary activity application.

Submissions 32/4 and 36/4 request a redraft of 14.5.3.5.1b) to clarify that the 50m separation applies separately to each side of the road reserve. This amendment is accepted. However the suggested amendment to remove the application of the rule to all business zones is not accepted. Business zones 7-10 are considered to be slightly more industrial than other business zones, with lower amenity values. This is why they have been excluded from the application of the rule. The submission is accepted in part.

Submission 35/32 argues that in some cases, small sites will be unable to accommodate a minor utility structure and in these situations the rule should be amended to permit minor utility structures to locate on road reserve. The characteristics of an unusual site will be taken into account if an application via restricted discretionary consent is made to locate the structure on road reserve. However it is not considered that an exclusion to the rule should be granted as of right. The submission is rejected. However a change to

14.5.3.5.2 is recommended as the rule in the Activity Table that relates to minor utility structures outside the road reserve has changed from a restricted discretionary activity to permitted in some instances. As 14.5.3.5.2 excludes some permitted activities, it is considered that these activities should be limited to those of a small size that are of minor effect. See the attached redraft.

Submission 54/5 requests that utility companies be required to underground cabinets where feasible. From an amenity perspective it would be an ideal result if all structures were underground. However, while it is technically possible to underground most minor utility structures, it can be an expensive process given particular environmental constraints, eg stormwater. Maintenance can also be problematic and expensive for below ground structures. In some cases where underground space is tight, locating structures underground can also take up space that could be used for underground wires and pipes. It is not considered that requiring utility companies to underground minor utility structures can be justified when balancing these issues against the adverse environmental effects of structures. However, the undergrounding is strongly encouraged where possible – see policy 10 in 14.3.2. The submission is rejected.

### 1.25.2 Recommendation

Submission 31/13 and further submissions 31-13x245, 31-13x1201 and 31-13x1188 are rejected.

Submission 35/30 is accepted.

Submission 35/31 is rejected.

Submissions 32/4, 36/4 and 32-4x249 and 36-4x281 are accepted in part.

Submissions 35/32 and 54/5 and further submission 54-5x297 is rejected.

### 1.26 Section 14.6.1 Reservations and Assessment criteria for General controlled activities

Submitter	No.	Summary of Decision Sought	Further Submitter/s
TelstraClear Ltd, Vodafone NZ Ltd	32/16, 36/16	Amend S 14.6.1.1 as follows; <i>'The Council reserves control over the following matters for all Controlled activity resource consent applications;</i> <i>a) Design, and external appearance and scale</i> <i>b) Siting and height,</i> <i>c) Visual impact including landscaping and screening</i> <i>d) Effects on streetscape and amenity</i> <i>e) Cumulative effects...'</i>	<b>Support</b> 32-16x253, 36-16x285 Vector Ltd
Vector Ltd	35/36	Amend S 14.6.1.2(ii) as follows, as this sentence is unnecessary; <del><i>'...This will include assessment of the extent to which the network utility dominates, or is overbearing in relation to adjacent activities.'</i></del>	
Woosh Wireless Ltd	40/34	Support and retain assessment criteria 14.6.1.2(ix)	<b>Support</b> 40-34x460 Broadcast Communications Ltd
Telecom NZ	31/14	Oppose in part bullet point xi) of 14.6.1.2. Amend to remove matters that are adequately covered by road opening notice procedures.	
Vector Ltd	35/37	Amend S 14.6.1.2(xi) second bullet point as follows; <i>'there is sufficient space in the road reserve for the planting and maintenance of street trees, the provision of lighting, street furniture, parking, access to the road reserve, where reasonably practicable.'</i>	
Woosh Wireless Ltd	40/33	Oppose assessment criteria 14.6.1.2(xii) second bullet point; <del><i>'Whether locating the network utility on recreation land is consistent with the objectives and policies of the relevant Recreation zone'</i></del> Amend objectives and policies of the Recreation zone to make provision for telecommunication facilities.	
TelstraClear Ltd, Vodafone NZ Ltd	32/17, 36/17	Amend S14.6.1.2 as follows; <i>'The Council shall assess applications using the following criteria;...</i> ... <del><i>iv) The effect on any significant views will be avoided or mitigated, including those from the Coastal Marine Area...</i></del> ... <i>xi) Whether structures located in the road reserve will be sited so that;</i> <ul style="list-style-type: none"><li>• <i>the potential for traffic and pedestrian safety problems is avoided and recommended clearance distances for</i></li></ul>	<b>Support</b> 32-17x254, 36-17x286 Vector Ltd



		<i>pedestrian thoroughfare is preserved (as detailed in North Shore City Council's Infrastructure Design Standards). This assessment must take account of any likely proposed upgrading or improvements of the road...</i>	
TelstraClear Ltd, Vodafone NZ Ltd	32/18, 36/18	Amend 14.6.2.3 as follows; 'The Council reserves control over the matters specified in 14.6.1.1 and the following;... ... b) Any proposed road alterations ... ii) <del>The proposed location of the equipment or structure in relation to any planned road widening, or vertical and / or horizontal realignment of the road...</del>	<b>Support</b> 32-18x255, 36-18x287 Vector Ltd

### 1.26.1 Discussion

Submissions 32/16 and 36/16 request the deletion of some of the aspects of controlled activities over which Council has reserved control, for example, siting, height and cumulative effects. A controlled activity must be granted by Council, although it has the power to impose conditions. When considering whether to impose conditions Council needs to be able to consider the effect of the activity in the whole, which it cannot do if it is excluded from considering such matters as height, siting and cumulative effects. For example, if the height of a structure is considered to have an undue adverse effect on the locality, it might be appropriate to increase the screening or landscaping, or recommend a different colour. If height is excluded from consideration however, it will be technically outside Council's jurisdiction to consider this. Similarly, sometimes a structure can be sited in a slightly different place to mitigate effects, without affecting the functionality of the structure. It is considered that the ability to consider these matters is necessary to assess the potential effects of an activity. The submissions, and associated further submission, are rejected.

Submission 35/36 requests the deletion of a sentence of assessment criteria as it is unnecessary. Council does not consider it unnecessary as the degree to which a structure dominates the immediate area is a valid resource management issue. The submission is rejected.

Submission 40/34 and the associated further submission which support assessment criteria 14.6.1.2 ix) are accepted.

Submission 31/14 opposes reference in assessment criteria to traffic and pedestrian safety issues that are also covered in statutory legislation under the road opening notice process. Council has had problems particularly with the replacement of poles in the road reserve when utility companies do not obtain road opening notices from Council and then places some of the replacements in locations Council considers inappropriate. Having these considerations also in the District Plan strengthens the ability of Council to enforce these requirements. The submission is rejected.

Submission 35/37 recommends the insertion of 'where reasonably practicable' in assessment criteria xi), bullet point 2. It is not considered however that structures in the road reserve should obstruct, for example, parking and access to the road reserve. Any activity that proposes to do so should be sited elsewhere. Structures in the road reserve are secondary in importance to the public access functions of the road reserve. The submission is rejected.

Submission 40/33 requests the deletion of the bullet point that is outlined in the submissions. As discussed elsewhere in this report, Recreation zones are not considered appropriate places for telecommunication facilities. The submission is rejected.

Submissions 32/17 and 36/17 have two aspects to them. The first requests the deletion of the criteria to do with significant views. The plan change does refer to Chapter 8 as described in the submission, but it is unclear whether, in this situation, Chapter 8 of the District Plan specifically protects the significant views referred to in Appendix 8F. Therefore it is considered necessary to refer to it here, and further, to specifically refer to Appendix 8F to ensure the significant views are protected. It is recommended that the provision not be deleted but the application of Appendix 8F to the criteria be made explicit. See the proposed redraft of this assessment criterion in the amended plan change. The submission is rejected.

The second part of these submissions, and submissions 32/18 and 36/18, request the deletion of references to proposed alterations, upgrading or improvements to the road. It is not considered that these criteria should be removed. Plans to widen or alter roads are made periodically in the City. Should an application

for an activity be granted for an area of road that is proposed to be altered, Council will have to pay for any requirement to move the structure when the alteration is made. If Council does not reserve itself the right to consider this matter, it will approve structures for which it will become financially liable at a later date. These submissions are rejected.

### 1.26.2 Recommendation

32/16, 36/16 and further submissions 32-16x253, 36-16x285 are rejected.

35/36 is rejected.

40/34 and further submission 40-34x460 are accepted.

31/14 is rejected.

35/37 is rejected.

40/33 is rejected.

32/17, 36/17 and further submission 32-17x254 and 36-17x286 are rejected.

32/18 36/18 with further submissions 32-18x255 and 36-18x287 are rejected.

### 1.27 Section 14.6.2.6 Antennas and masts assessment criteria for controlled activities

Submitter	No.	Summary of Decision Sought	Further Submitter/s
John Philip Wilson	38/1	Delete S 14.6.2.6 Antennas and Masts assessment criteria.	
Various submitters	A45	Oppose 14.6.2.6 (reservation of control over matters to do with antennas and masts)	<b>Support</b> 26-53x718, 64-45x1137 M D Newman
TelstraClear Ltd, Vodafone NZ Ltd	32/14, 36/14	Delete bullet points 4 and 5 in S 14.6.2.6 (i) Antennas and Masts.	<b>Support</b> 32-14x1167, 36-14x1175 Telecom NZ

#### 1.27.1 Discussion

The assessment criteria for antennas and masts that are controlled activities enable Council to have some ability to mitigate effects of these activities on amenity values. It is not considered appropriate to delete them. Submissions 38/1 and A45 are rejected.

Submissions 32/14 and 36/14 request the deletion of bullet points 4 and 5 in 14.6.2.6 i). It is accepted that Council does not have the expertise to design the physical infrastructure of the setup of an antenna and mast. However it does have the expertise to suggest ways in which the effects on amenity values of a particular arrangement may be mitigated. Should such suggestions be impractical assessment criteria x) in 14.6.1.2 is relevant as it specifies that the controlled activity assessment criteria may be constrained by operational and technical issues. If conditions that Council seek to impose are unreasonable no doubt an applicant will be able to demonstrate why this is so. The submission is rejected.

#### 1.27.2 Recommendation

Submissions 38/1 and A45, along with further submissions 26-53x718 and 64-45x1137 are rejected.

Submissions 32/14, 36/14 and further submissions 32-14x1167 and 36-14x1175 are rejected.

### 1.28 Section 14.7.1.6 Restrictions and assessment criteria for aerials, antennas and masts

Submitter	No.	Summary of Decision Sought	Further Submitter/s
North Shore Amateur Radio Club Inc	229/6	Oppose 14.7.1.6 Restrictions and Assessment Criteria for Aerials, Antenna and Masts, as it restricts experimentation which is one of the primary functions of the amateur radio service.	
Various submitters	A46	Oppose 14.7.1.6 (regarding aerial height, appearance and location on ridgelines)	<b>Support</b> 26-54x719, 64-46x1138 M D Newman
Woosh Wireless Ltd	40/35	Oppose assessment criteria 14.7.1.6(a)(ii). Delete the wording; <del>'Structures are discouraged on prominent ridge lines and hilltops'</del>	

#### 1.28.1 Discussion

Assessment criteria for limited discretionary activities provide for Council to have some ability to mitigate effects of activities on amenity values, and it is not considered appropriate to delete them. Submissions

229/6 and A46 are rejected. It is noted however that with recommended changes to rules affecting private radio amateurs the potential application of these criteria to those parties will be reduced.

Submission 40/35 requests the deletion of the first sentence of 14.7.1.6(a)(ii) that discourages structures on prominent ridge lines and hilltops. It is accepted that there is a conflict between the need to locate in a prominent position in order to achieve better coverage, and the fact that such locations are often the most visible over a large area. It is considered appropriate to discourage structures in these positions for amenity and landscape reasons. However the criteria also balances this against the need for functionality. It is considered that the assessment criteria balance the opposing forces of practicality and amenity, and the submission is rejected.

### 1.28.2 Recommendation

Submissions 229/6 and A46, along with further submissions 26-54x719 and 64-46x1138 are rejected. Submission 40/35 is rejected.

## 1.29 Section 21 Definitions of aerials and antennas

Submitter	No.	Summary of Decision Sought	Further Submitter/s
New Zealand Association of Radio Transmitters (Inc)	20/14	Amend the definitions of Aerial and Antenna to the following; <i>'The arrangement of conductors, usually wires, rods, or tubes, which form the device in which radio frequency electromagnetic energy is generated from or converted to electrical energy for the purposes of radio communication.'</i> <i>This definition includes the linking components of tubes or rods which position the rods, tubes and wires, and the dish in a dish antenna, and any shrouds required for weather protection.</i> <i>The antenna is not subject to specific size limits. Mountings are part of the antenna unit.'</i>	<b>Support</b> FS Group
TelstraClear Ltd, Vodafone NZ Ltd	32/15, 36/15	Amend the definition of Antenna in S 21 as follows; <i>'...This includes the antenna's mountings (including any support structure or head arrangement such as shrouds or antenna covers) and radio frequency unit or similar device...'</i>	<b>Support</b> 32-15x1168, 36-15x1176 Telecom NZ
Woosh Wireless Ltd	40/36	Support and retain S21 definition of antenna. The definition is supported, particularly the explanation of how dimensions are measured.	
Various submitters	A50	Oppose definition of 'Antenna'	<b>Support</b> 26-58x723, 64-50x1142 M D Newman
Various submitters	A49	Oppose definition of 'Aerial' and the limitation of diameter of aerial to 80mm	<b>Support</b> 26-57x722, 64-49x1141 M D Newman
Various submitters	A5	Permit the use of pole structures not exceeding 80mm in diameter to be used for supporting aerials and antenna	<b>Support</b> 26-13x678, 64-5x1097 M D Newman
New Zealand Association of Radio Transmitters (Inc)	20/15	Create a new definition of Antenna Supporting Structures to define those poles, masts and towers and structural elements which support antennas and aerials, and which may be subject to specific structural design.	<b>Support</b> FS Group
Various submitters	A52	Oppose definition of 'Radio Communication'	<b>Support</b> 26-60x725, 64-52x1144 M D Newman

### 1.29.1 Discussion

Submission 20/14 argues that the definitions of aerial and antenna should be amended to that submitted. The plan change defines antennas and aerials differently as they are perceived to have different environmental effects. The submission is rejected. Submissions 32/15 and 36/15 request an addition to the definition of antenna as shrouds or antenna covers are often used to cover antenna components and cables. These will be included in the calculation of the permitted dimensions of the antenna so it is considered that these will not result in larger structures being permitted. The submission is accepted.

Submission 40/36 supports the proposed definition of antenna. This submission is accepted only in part, as the definition has had a small addition as described above. Submission A50 opposes the proposed definition of antenna and is rejected.

Submission A49 opposes the definition of aerial and in particular the limitation of 80mm. While it is considered that the definition of aerial is appropriate, the submission with respect to the limitation of 80mm is accepted as it is considered that this may unduly limit the size of larger aerials. The submission is accepted in part. Submission A5 argues that the pole structures to support aerials and antennas should not be limited to less than 80mm. The proposed plan change does not currently do this and this submission is accepted.

Submission 20/15 suggests the insertion of a new definition of 'antenna supporting structures'. A new term called 'private pole aerials' is proposed to be used to distinguish those poles that are for private aerial and antenna use from 'masts', upon which cell sites are located. The submission is accepted in part. See section 1.17 for a discussion of these structures.

Submission A52 opposes the definition of radio communication. No reasons are provided. The submission is rejected.

### 1.29.2 Recommendation

Submission 20/14 and a further submission by the FS Group are rejected.

Submissions 32/15, 36/15 and further submissions 32-15x1168 and 36-15x1176 are rejected.

Submission 40/36 is accepted in part.

Submission A 50 and further submissions 28-58x723 and 64-50x1142 are rejected.

Submission A49 and 26-57x722 and 64-49x1141 are accepted in part.

Submission A5 and further submissions 26-13x678 and 64-5x1097 are accepted.

Submission 20/15 and a further submission by the FS Group are accepted in part.

Submission A52 and further submissions 26-60x725 and 64-52x1144 are rejected.

### 1.30 Network utilities and privately owned aerials and antennas

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Broadcast Communications Ltd	5/14	Oppose in part the definition of Network Utility. Delete part d) from the definition of Network Utility and make any necessary consequential amendments to the Plan.	<b>Support</b> 5-14x660 The Freeview Group
Various submitters	A53	Oppose definition of 'Network Utility' and inclusion of privately owned aerials and antennas	<b>Support</b> 26-61x726, 64-53x1145 M D Newman
Broadcast Communications Ltd	5/4	Oppose the inclusion of privately owned aerials and antennas in the definition of Network Utilities. Delete this reference from the Explanation and Reasons in Rule 14.4.2 and make consequential amendments elsewhere (eg definition of Network Utilities). In 14.4.2, amend to read as following: <ul style="list-style-type: none"> <li><i>'those parts of the telecommunication networks that are <del>privately owned, including privately owned aerials and antennas</del> by utility operators.</i></li> <li><i>any activity emitting radio frequency fields, <del>whether owned privately or</del> by network utility operators.'</i></li> </ul>	<b>Support</b> 5-4x659 The Freeview Group
Peter Smith	26/5	Oppose the inclusion of privately owned aerials and antennas in the same category as 'telecommunication networks'.	<b>Support</b> 26-5x670 M D Newman
Various submitters	A13	Oppose 14.1 and in particular the inclusion of privately owned aerials and antennas in 'telecommunication networks'	<b>Support</b> 26-21x686, 64-13x1105 M D Newman
Alan Wooller	39/2	Amend definition of Network utilities in S 21 as follows; <p><i>'...d) privately owned aerials and antennas <u>necessary for the operation of the network utility</u>; and</i></p>	
Alan Wooller	39/1	Amend definition of Network utilities to ensure that activities that do not form part of a network utility are not inadvertently treated as such. Amend to exclude the following; <p><i>'baby monitors, radio controlled toys, garage door openers, amateur radio, microwave ovens, citizens radio, TV remote controls and the like'.</i></p>	

#### 1.30.1 Discussion

Submission 5/14 argues that the inclusion of privately owned aerials and antennas in the definition of network utility is not appropriate. Private structures and those owned by utility operators have been included together as they have similar effects. If the rules for private antennas and aerials were contained in some

other section they would be similar to what is proposed. It is not considered correct to argue, as the submission does, that rules reflecting the approach towards residential buildings have created onerous consent requirements for utility company infrastructure. One set of rules apply for antennas attached to buildings in the residential zones and it is rare that cell sites will be so attached. The rules in business zones are less restrictive due to their reduced amenity, which is where it is anticipated most of the telecommunication antennas attached to buildings will be located. It is also considered that the rules do reflect the policies relevant to telecommunications infrastructure, as they encourage the location of antennas on buildings, and encourage co-location where the adverse cumulative effects do not outweigh the positive effects. As it is Council policy to prefer smaller, more discreet cell sites however, such co-location may not be preferable in many instances. The objectives of the rules are also reflected in that the construction of an efficient utility network needs to be balanced against their adverse effects. It is considered appropriate to preserve the definition of network utilities as it is. The submission is rejected, as is A53.

For the same reasons submissions 5/4, 26/5 and A13 are rejected.

Submission 39/2 argues that the explanation of utilities in 14.4.2 and the definition in S21 differ in scope. However both explanations appear to refer to private antennas and aerials in a similar fashion. The submission is rejected.

Submission 39/1 requests the exclusion of common household items (baby monitors, garage door openers etc) from the definition of network utilities in case they are inadvertently treated as such. It is considered that these items would not be treated as network utilities as they are not structures necessary for the operation of a network utility, but are independently operated systems. As they do emit small radiofrequency fields however, there is potential for them to be caught by a need to comply with NZS 2772.1 1999 and for this reason the definition 'Activity emitting radio frequency fields' specifically excludes these items. They are not considered to be a risk. The submission also refers to amateur radio and citizens radio however and these are not exempt from compliance with NZS 2772.1 1999. The submission is accepted in part.

### 1.30.2 Recommendation

Submissions 5/14, A53 and further submissions 5-14x660, 26-61x726 and 64-53x1145 are rejected. Submission 5/4, 26/5, A13 and further submissions 5-4x659, 26-5x670, 26-21x686 and 64-13x1105 are rejected.

Submission 39/2 is rejected.

Submission 39/1 is accepted in part.

### 1.31 Section 3.10.7.1 6 General

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Transpower	34/15	Support Rule 6 in S3.10.7.1 General. Retain this rule.	

#### 1.31.1 Discussion and recommendation

Rule 3.10.7.1.6 has been amended as discussed in part 1.10 of this report. The submission is accepted in part.

### 1.32 Section 3A (1)(B)(k) Schedule of Effects

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Transpower	34/16	Support amendments to Appendix 3A (1)(B) (k).	

#### 1.32.1 Discussion and recommendation

Submission 34/16 is accepted.

### 1.33 Coastal Conservation Area and Foreshore Yard

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Transpower	34/17	Retain S 8.4.1.1b) without further amendment.	<b>Support</b> 34-17x272 Vector Ltd
Vector Ltd	35/44	Support 8.4.1.1 (b)	

Transpower	34/20	Support amendments in S16.6.1.5A and retain without further amendment.	<b>Support</b> Vector Ltd	34-20x275
East Coast Bays Coastal Protection Society	11/3	Support the proposed measures relating to the 1% AEP flood plain and the foreshore yard.		

### 1.33.1 Discussion and recommendation

Submissions 34/17, 35/44, 34/20, 11/3 and further submissions 34-17x272 and 34-20x275 are accepted.

### 1.34 Excavation - Section 9.4.1.1 e)

Submitter	No.	Summary of Decision Sought	Further Submitter/s
North Shore City Council - Water Services	21/1	Oppose the depth limit of 1.5m for excavations for new construction works in S 9.4.1.1 e).	<b>Support</b> 21-1x239 Vector Ltd
Watercare Services Ltd	37/1	Support in part 9.4.1.1 Permitted Activities item (e). Amend the proposed change as follows; <i>'Excavations, except in the foreshore yard, no greater than;</i> <ul style="list-style-type: none"> <li>• <del>1.5 metres in depth, or</del></li> <li>• 3 metres in depth for the <u>installation and maintenance of existing</u> underground network utilities,</li> </ul> <i>as measured by the vertical distance from the top to the bottom of the excavation.'</i>	<b>Support</b> 37-1x288 Vector Ltd

#### 1.34.1 Discussion

Submissions 21/1 and 37/1 request that the proposed amendment to the permitted depth of excavation rule for network utilities be extended from the maintenance of network utilities to include installation as well. Excavations for network utilities generally do not have the same impact as, for example, a house development or a retaining wall. They are temporary and are narrow in width. It also seems that the limited discretionary rule is rarely being enforced for network utilities and while this in itself is not a reason to remove it, there do not seem to be any adverse ramifications that have arisen from non enforcement. Apart from water services projects, most network utilities take place within the road reserve and the road opening notice system introduces checks and balances for when activities take place in these areas. Outside of the road reserve, utility operators other than water services generally only dig shallow trenches to connect with private property. The foreshore yard and the root zone of trees are protected in other rules. It is considered that the potential effects of extending this rule are minimal and that the submissions should be accepted. It is noted however that the suggested redraft in submission 37/1 is not accepted in its entirety as the proposed deletion of 1.5m in depth is not appropriate as this applies to activities other than network utilities.

#### 1.34.2 Recommendation

Submissions 21/1, 37/1 and further submissions 21-1x239 and 37-1x288 are accepted.

### 1.35 High Voltage Transmission Lines

Submitter	No.	Summary of Decision Sought	Further Submitter/s	
Transpower	34/13	Support row 14 of the Electricity Section of Activity Table 14.1. <i>'Changes to HIGH VOLTAGE TRANSMISSION LINES, supported by steel tower structures, not provided for as Permitted, Controlled or Limited Discretionary Activities.'</i> Retain this as a discretionary activity.	<b>Support</b> Vector Ltd	34-13x270
John Philip Wilson	38/3	Support rule change to keep high voltage transmission lines away from constantly occupied areas. Electromagnetic field radiation should be presumed harmful.	<b>Oppose</b> Transpower New Zealand Ltd <b>Oppose</b> 38-3x289 Vector Ltd	38-3x523
Transpower	34/10	Amend the activity status of row 15 (new above ground high voltage transmission lines) of the Electricity Section of Activity Table 14.1 from non complying to discretionary in all zones.	<b>Support</b> Vector Ltd	34-10x267

Vector Ltd	35/23	Amend row 15 of the Electricity Section of Activity Table 14.1 to change the activity status of new above ground high voltage transmission lines from non complying to limited discretionary.		
Transpower	34/18	Retain the following sections without further amendment; 9.3.2 d), 9.4.1.1 b), 9.4.1.1e), 9.4.1.3 q), 9.4.4.2 a) iii), 9.5.2.18.	<b>Support</b> Vector Ltd	34-18x273
Vector Ltd	35/45	Support proposed amendments to S9.3.2, 9.4.1.3 and 9.5.2, and the introduction of 9.7.2.12.		
Transpower	34/19	Amend S 9.7.2.12 Subdivision in the vicinity of High Voltage Transmission Lines to add the following two criteria; <i>'...v) The outcome of any consultation with the high voltage transmission line owner. vi ) The extent to which the proposal would constrain the ongoing operational needs of the National Grid.'</i>	<b>Support</b> Vector Ltd	34-19x274
Transpower	34/22	Amend the definition of High Voltage Transmission Lines in S21 as follows; <i>'Means an electric line of 110 kV or greater, including support structures (towers).'</i>	<b>Support</b> Vector Ltd	34-22x277
Transpower	34/21	Amend the definition of Minor Upgrading in S21 as follows; <i>'Upgrading of electricity transmission lines of 110kV or greater where supported by steel tower structures, is limited to the following:... ix). An increase in tower height where required where required to comply with the clearance distances specified in NZECP 34:2001.'</i>	<b>Support</b> Vector Ltd	34-21x276

### 1.35.1 Discussion

Submission 34/13 is accepted.

Submission 38/3 is accepted in part. It is noted however that health and safety is only one aspect of the initiative to ensure future households do not locate under high voltage transmission lines. Other reasons include the need to preserve amenity and comply with government regulations. Electromagnetic field radiation is not however presumed harmful when it is within the limits of the ICNIRP guidelines.

Submissions 34/10 and 35/23 argue that the non complying activity status of above ground high voltage transmission lines should be reduced to discretionary and restricted discretionary respectively. North Shore City Council recognises the arguments contained in submission 34/10 that transmission lines are important and necessary to the fabric of the city. From Council's perspective however, the part of the rule that especially warrants a non complying consent is not the transmission lines but the fact that they are above ground. North Shore City Council would prefer to see new high voltage transmission lines placed underground. The submissions are rejected.

Submission 34/18 is accepted. However, see the discussion concerning excavation in Part 1.34 for a discussion concerning S 9.4.1.1e). Submission 35/45 is also accepted.

Submission 34/19 recommends the addition of two extra assessment criteria to S 9.7.2.12. The first requires a decision maker to consider the result of any consultation with the line owner. Assessment criteria should address environmental effects. When considering an application a decision maker will have to decide what the effects are and who might be affected by them. The suggested criteria dealing with consultation does not deal with the effects of the activity. It attempts to ensure that the view of the line owner is taken account of, but in fact a robust council process will take account of the effects on the line owner if it is affected. Furthermore, S36A of the Act specifies that an applicant has no duty to consult with any person about an application for a resource consent. Putting this requirement in an assessment criterion effectively requires an applicant to do so, so it is considered inappropriate to include this assessment criterion.

The second suggested assessment criteria deals with possible constraints placed on the ongoing needs of the National Grid. It is considered that any effects on the operational integrity of the line owner will be dealt with by the consideration of NZECP 34 in assessment criteria i) and in criteria iv) which deals with the ability of the line owner to retain access to the asset. Submission 34/19 is rejected.

Submission 34/22 recommends an addition to the definition of high voltage transmission lines to include support structures. It is considered that the definition already includes support structures due to the definition of 'electric line', which is also contained in the definition section. This definition includes fittings

supporting or connected to those conductors, which includes supporting structures. The suggested addition is therefore seen as unnecessary and is rejected.

Submission 34/21 argues that the definition of minor upgrading should include an increase in tower height where compliance with the clearance distances specified in NZECP 34:2001 is required. Minor upgrading allows changes to high voltage transmission lines with steel tower structures to take place as permitted activities. An increase in tower height is excluded from the definition of minor upgrading because Council does not consider it achieves the purpose of the Act to have towers increase in height without an adequate assessment of environmental effects. If the line operator upgrades the line and the conductor then sags and infringes NZECP 34:2001, should tower height need to be increased it is considered that a discretionary activity consent for changes to high voltage transmission lines should be required. Some towers have adverse visual effects that may be exacerbated by increasing their height further. As the submission notes, there is potential for development adjacent to the lines to infringe NZECP34:2001. However, as the Code has effect as a regulation, it is considered that the line operator will be vigilant in ensuring this does not happen, and such development would be extremely rare. The submission is rejected.

### 1.35.2 Recommendation

Submissions 34/13 and further submission 34-13x270 are accepted.

Submission 38/3 and further submissions 38-3x523 and 38-3x289 are accepted in part.

Submissions 34/10, 35/23 and further submission 34-10x267 are rejected.

Submissions 34/18, 35/45 and further submission 34-18x273 are accepted.

Submissions 34/19, 34/22, 34/21 and further submissions 34-19x274, 34-22x277 and 34-21x276 are rejected.

### 1.36 Activity table - miscellaneous

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Vector Ltd	35/11	Amend row 1 of the Miscellaneous Section of Activity Table 14.1 as follows; <i>'The operation and MAINTENANCE of NETWORK UTILITIES in <del>lawful existence</del> in existence at the date of notification of this plan'.</i>	
Vector Ltd	35/16	Many activities shown in the Miscellaneous section of Activity Table 14.1 are classified as being discretionary in Recreation 1 and other Recreation zones. Amend this requirement to provide for these as either permitted or controlled activities, with appropriate controls reserved to the Council.	

#### 1.36.1 Discussion

The amendment suggested in submission 35/11 is similar to the current rule in the District Plan. The object of the proposed rule in Plan change 18 is to provide only those activities that are lawfully installed the right to be operated and maintained as permitted activities. As the submission argues however, for older activities there will be a problem determining whether the utility is in lawful existence or not, as it may be a permitted activity or consented to under other legislation. In this situation it would be very difficult to prove whether something old was lawfully or unlawfully installed or operated. Amending the rule in line with the suggested submission allows these older utilities as permitted activities. Activities that have been consented to after the date of the notification of the plan do not have this problem as they can more easily be proved to be lawfully established or otherwise.

The submission is accepted in part, with the following amendment recommended: *'The operation and MAINTENANCE of NETWORK UTILITIES in ~~lawful~~ existence on 17 October 1994'*. This is effectively the same as recommended in submission 35/11 but to avoid confusion it specifies the date of the notification of the Plan. A consequential amendment is also needed to change the definition of Network Utility. Because the rule in row 1 now only applies to activities prior to 17 October 1994, the definition of network utilities needs to be amended to make sure maintenance is still a permitted activity for activities after that date. See recommended changes in Attachment 1.

Submission 35/16 deals with the activity status of utilities in Recreation zones. The opportunity to locate utilities on Recreation 1 land is restricted as it is considered by Council that utilities should only be located on Recreation land when they are linked to the purpose of the zone and do not have undue adverse effects on the amenity of the reserve. For this reason it is important for Council to be able to refuse the location of the



utility if it is considered inappropriate. A permitted or controlled activity status does not afford this opportunity. See the discussion on Policy 7 in Part 1.5.1 for further analysis of this subject.

### 1.36.2 Recommendation

Submission 35/11 is accepted in part. Submission 35/16 is rejected.

### 1.37 Electricity - substations

Vector Ltd	35/24	Clarify the meaning of electricity substation in row 4 and 5 of the Electricity Section of Activity Table 14.1, to determine whether it applies to zone and/or distribution substations.	
Vector Ltd	35/20	Amend row 4 and 5 of the Electricity Section of Activity Table 14.1 to change the activity status of Electricity Substations to a controlled activity in all zones, as being a discretionary activity in some zones is too onerous.	

#### 1.37.1 Discussion

Submission 35/24 requests that the meaning of substation in rows 4 and 5 of the Electricity Section of Table 14.1 be clarified. It is accepted that it is unclear how this rule interrelates with the minor utility structure rule that may also apply to substations and it is recommended that some changes be made to clarify these provisions. The proposed redraft is attached. It specifies that the rule regarding electricity substations applies to those activities outside of the road reserve that are bigger than minor utility structures of 1.8m high or 10m<sup>2</sup>. All transformers and switchgear smaller than these dimensions will be covered by the minor utility structure rules under the Miscellaneous section of the activity table. The recommended redraft does not therefore categorise the substations by name but by their dimension.

Submission 35/20 requests that the activity status of electricity substations should be a controlled activity in all zones. A substation has the potential to be a large structure with a variety of adverse effects. It is considered important to be able to refuse the location of such a structure in locations that are sensitive, for example in residential zones. The request to allow these activities as controlled activities in these zones is rejected.

#### 1.37.2 Recommendation

Submission 35/24 is accepted in part.  
Submission 35/20 is rejected.

### 1.38 Cell sites - general

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Michelle Androu	1/1	Oppose the Plan change in respect of cell phone sites as cell sites are unsightly and have negative health effects.	<b>Oppose</b> 1-1x441 Broadcast Communications Ltd <b>Support</b> 1-1x145 Sally Elton
Len Cooper	8/1	Oppose any relaxation of rules relating to the erection and placement of masts, due to concern about health effects. Leave regulations as they currently stand so that full discussion can take place before further antennas are erected.	
Priscilla Anne Cooper	9/1	Oppose any relaxation of rules relating to the erection of masts, due to concern about health effects. Leave regulations as they currently stand until worldwide research into possible ill effects from radiofrequency radiation can categorically be dismissed.	
Michelle Androu	1/2	Oppose the Plan change and ensure that a continuing dialogue with affected residents occurs for every cell site that any company wishes to install.	<b>Support</b> 1-1x146 Sally Elton
Rixt Brownlow	6/1	Oppose the relaxation of rules regarding the installation of new cell sites, particularly in residential and school zones in Devonport.	
Econet Wireless NZ Ltd	12/2	Oppose plan change as will result in more cell sites being built rather than less, which increases the cost of bringing service to the community and obstructs and delays implementation of a network.	
Kenneth Bremner	17/1	New above ground electric and telecommunication lines and	<b>Support</b> 17-1x238 Vector

Huffadine		telecommunication cell sites should be treated equally under Objective 14.3.1 (2), not introducing more stringent rules concerning the former, and relaxing rules concerning the latter.	Ltd
Kenneth Bremner Huffadine	17/3	Telecommunications companies install cell sites for financial gain. They should reimburse owners of neighbouring properties for the loss in value of their properties, if there is one.	
Kenneth Bremner Huffadine	17/4	NSCC should implement a policy requiring independently evaluated justification from cell phone companies for the erection of cell phone towers.	
Kenneth Bremner Huffadine	17/5	The council should keep a single database of cell phone towers to monitor the number and location of the towers.	
Glenise Irving	18/1	Cell sites should be obviously displayed and if hidden a sign should be erected to let the public know where they are.	
Andrew Nyhoff	23/2	New cell sites should be notified as they are ugly and potentially harmful.	
Sue Spindler	27/1	Oppose cell sites being placed in residential areas. They should be placed in more appropriate locations such as parks and reserves.	
Sue Spindler	27/2	Oppose the provision of 'block consent' to cell site companies that gives them total power over the location of antennas.	
John Philip Wilson	38/2	Oppose Plan change as the present regulations are adequate if interpreted clearly and consistently. Oppose relaxation of rules regarding cell sites and oppose rule changes regarding antennas, satellite reflectors and radio frequency	
John Hotchin-Davies	231/1	Support the Plan change except for the proposed rules concerning telecommunication cell sites. Oppose changes to these rules.	<b>Oppose</b> 231-1x462 M D Newman

### 1.38.1 Discussion

Submission 1/1 opposes the plan change in respect of cell phone sites due to their adverse visual and health effects. It is agreed that cell sites can have adverse visual effects. It is considered that in many cases such adverse visual effects are minor. Where these effects are considered minor, the proposed provisions have been relaxed. In areas of sensitive amenity however (such as residential and recreation zones), the proposed change ensures that cell sites still have an activity status that enables a decision maker to refuse applications if the adverse effects are considered to be more than minor. It is noted also that changes in the activity status of the proposed provisions recognise the positive effects of cell sites to a greater extent.

The submission also argues that there are potential health effects from radio frequency (RF) emissions from cell sites. Submissions 8/1 and 9/1 also argue this case. There are two general categories of RF exposure; the high level of exposure that occurs when a person is very close to the source, and the ambient level of RF that exists in the general environment. The RF field is strongest at its source, but this area is not accessible to the general public. The ambient level of RF in the general environment is what people are exposed to at virtually all times. The proposed provisions specify that this must not exceed the national standard NZS 2772.1 1999, which is based on science and standards accepted internationally. Submission 6/1, which opposes the relaxation of rules regarding cell sites, notes that the foreword to this Standard expresses concern that scientific research has not ruled out adverse health effects being caused by exposure to RF fields at levels lower than those expressed in the Standard. This is accepted, but the Standard goes on to say on page 5 that *"it should be further noted that it is not possible to logically prove with certainty that any environmental agent will not cause an adverse health effect"*.

While the World Health Organisation continues to fund research into the effects of the higher RF exposures from mobile phones, it advises that no health effects are expected from exposure to ambient RF fields. Its most recent update on the subject, from May 2006, indicates that there *"is no convincing scientific evidence that the weak RF signals from base stations and wireless networks cause adverse health effects"* (Page 2, Electromagnetic fields and public health, <http://www.who.int/mediacentre/factsheets/fs304/en/print.html> ). Given the weight of scientific evidence it is considered that not to follow the standards recommended in NZS 2772:1999 would not be justifiable under the Act. The submission is rejected.

Submission 1/2 opposes the plan change and requests that a continuing dialogue take place with all residents affected by any cell site. The Act is structured so that it regulates the effects of activities, not the activities themselves. In this way it tries to ensure that all activities are dealt with on the basis of the effects they have on the environment and not on the basis of the activity itself. The Act specifies in which situations

applications should be notified and when notice of the application should be served on adversely affected persons, and these principles apply to all activities. Consequently, an application for a cellsite should not be required to consult with affected residents in a different way from other activities that have similar adverse effects. It is also noted that S36A of the Act specifically states that an applicant or the local authority does not have a duty to consult any person about an application. The submission is rejected.

Submission 6/1, noted above, opposes the relaxation of rules regarding new cell sites, particularly in residential and school zones. It is difficult not to have cell sites in residential areas as much of North Shore is residential. The rules have changed to ensure that low impact sites in residential areas will be dealt with using a lesser activity status. These sites that are high or have unusually large antenna will remain, at least, discretionary activities. In all cases in residential areas however, cell sites can be refused if their effects are considered to be more than minor. School areas are sensitive areas and the effects of any proposed sites will be carefully examined in the resource consent process. However, given the scientific findings discussed above, it is not considered that the rules should be amended. The submission is rejected.

Submission 12/2 opposes the plan change as it will result in more cell sites being built rather than less. This is the scenario that is envisaged by the plan change. Whilst co-location is encouraged where possible, in the North Shore environment it is considered more appropriate, especially in residential areas, to have more cell sites that have a lower impact. The submission is rejected.

Submission 17/1 requests that cell sites be treated in a similar manner to above ground lines, in that the rules relating to cell sites should not be relaxed. This apparent inconsistency is recognised, but it is considered that there are good reasons to treat the two cases differently. Cell sites do not have the same level of adverse effects of above ground lines. In many cases they are relatively innocuous. Furthermore, although lines can be placed underground, the technology of cell sites require them to be a certain height above ground. The submission is rejected.

Submission 17/3 argues that telecommunication companies should compensate neighbouring properties for any loss of value to their property. Cell sites are only one of a myriad of different things that can affect the value of a property, both positively and negatively. If a road providing better access to a motorway is built, some properties will increase in value as they have better connectivity to surrounding areas. A property that is adjacent to that new road may be negatively affected due to reduced amenity. Costs and benefits of planning decisions are not equally distributed throughout the community and if they cause a loss in property value, are not compensated for, but other remedies are available if the property is "incapable of reasonable use" (S85(2)). Compensation is usually only available for land taken under the Public Works Act. It is noted also that property values are not only affected by planning decisions. If some property owners renovate their properties it may increase the value of other properties in the street as the area is seen as a more attractive place to live. It is not considered that those affected by cell sites should, or can, be singled out for compensation. The submission is rejected.

Submission 17/4 argues that telecommunication companies should justify why they are erecting cell phone towers. The need to fill in or extend the network, or respond to business growth, is usually why companies erect new cell sites. Council requires a telecommunication company to justify why that particular site is required above all others. However, a company is not required to demonstrate why they have decided to erect another cell site. The Act is effects based. If a company wishes to install a cell site and can demonstrate that the effects are minimal, it is not the function of Council to question the validity of their technical requirements and/or their business plan. The submission is rejected.

Submission 17/5 argues that Council should keep a database of all cell phone towers. North Shore City Council keeps a database of cell phone towers that are located on Council owned land, as these sites require Council consent. However it does not keep a record of sites that are on privately owned land. The overall numbers of cell sites within the city are generally not monitored as increased numbers are not considered harmful unless they are located in close proximity to each other and have adverse cumulative effects. The submission is rejected.

Submission 18/1 states that where cell sites are hidden a sign should be erected to let the public know where they are. Although some sites are located on the top of buildings where they cannot be seen by the general public, it is not considered necessary to advertise their presence. If they are hidden this is considered to be an ideal situation. As discussed above, the radio frequency radiation is not considered to be harmful, and where hidden their effects are extremely minimal. The submission is rejected.

Submission 23/2 argues that new cell sites should be notified. The provisions of the Act determine when an application for an activity should be notified. If the activity is not a permitted or controlled activity and the effects are more than minor, the application will be notified. As discussed above, the radio frequency radiation cell sites emit is not considered harmful, and where cell sites are appropriately located they have few visual effects. In these situations it is unlikely they will be notified. The submission is accepted in part however, as some cell sites will be notified through the application process.

Submission 27/1 argues that cell sites should be placed in parks or reserves rather than residential areas. Much of North Shore City is residentially zoned and if telecommunication companies were unable to locate cell sites in these areas, networks would be seriously compromised. Council has a policy opposing the construction of new structures in reserves unless in exceptional circumstances (Council Policy Manual - Policy 2.8.4 – Buildings and Structures). This includes telecommunication cell sites. The submission is rejected. Submission 27/2 opposes the provision of 'block consent' to cell site companies that gives them total power over the location of antennas. Cell site companies do get block consent that give them total power over the location of antennas. The submission is rejected.

Submission 38/2 opposes relaxing of the rules regarding cell sites as the current rules are adequate. As explained in the Section 32 report distributed at notification, it is considered inequitable to require a discretionary activity consent for those cell sites which have minimal environmental effects and provide strong social and economic benefits to the North Shore. The submission is rejected. The submission also opposes rule changes regarding antennas and radio frequency. For comment on these parts of the submission see comments under these headings elsewhere in this report.

Submission 231/1 opposes the changes to telecommunication cell site rules. For the various reasons enumerated in the discussions above, the submission is rejected.

### 1.38.2 Recommendation

Submission 1/1 and further submission 1-1x145 are rejected. Further submission 1-1x441 is accepted.

Submission 8/1 and 9/1 are rejected.

Submission 1/2 and further submission 1-2x146 are rejected.

Submission 6/1 is rejected.

Submission 12/2 is rejected.

Submissions 17/1, 3, 4 and 5, and further submission 17-1x238 are rejected.

Submissions 18/1 is rejected.

Submission 23/2 is accepted in part.

Submissions 27/1 and 2 are rejected.

Submission 38/2 is rejected.

Submission 231/1 is rejected and further submission 231-1x462 is accepted.

### 1.39 Underground network utilities

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Vector Ltd	35/12	Amend row 2 of the Miscellaneous Section of Activity Table 14.1 Underground Network Utilities, to change activities in Recreation 1 zone from discretionary to limited discretionary.	
Woosh Wireless Ltd	40/6	Oppose activity status of underground network utilities in Recreation 1 zone, in row 2 of Table 14.1 Activity Status Miscellaneous. Amend this from discretionary to controlled.	
Woosh Wireless Ltd	40/8	Oppose activity status of underground network utilities in Recreation 1 zone, in row 2 of Table 14.1 Activity Status Telecommunications. Amend this from discretionary to controlled.	
Vector Ltd	35/18	Amend row 2 of the Electricity Section of Activity Table 14.1 to change the activity status in the Recreation 1 zone from Discretionary to Controlled or Permitted, with appropriate controls reserved to Council.	
Woosh Wireless Ltd	40/9	Support and retain row 3 of Table 14.1 Activity Status Telecommunications, underground network utilities for Telecommunication networks.	
Vector Ltd	35/19	Support row 3 of the Electricity Section of Activity Table 14.1.	

### 1.39.1 Decision

Submissions 35/12, 40/6, 40/8 and 35/18 all request that underground network utilities in the recreation 1 zone should not be zoned as a discretionary activity, but should be zoned as a limited discretionary or controlled activity. These submissions are rejected for the following reasons. Firstly, the proliferation of utilities in recreation zones is not encouraged - see the discussion of policy 7 in Part 1.5.1. Secondly and more specifically, the recreation 1 zone is a conservation zone used in areas of natural importance. In these areas disturbance of the land is discouraged due to the sensitive root zones in the area. A discretionary activity consent is considered essential to protect these sensitive areas from disturbance. This rule is analogous to the discretionary activity consent required for work in the root zone of any Notable Tree (S8.4.6.2) or pohutukawa in the Coastal Conservation area (S8.4.6.1.3).

Submissions 40/9 and 35/19 are accepted.

### 1.39.2 Recommendation

Submissions 35/12, 40/6, 40/8 and 35/18 are rejected.

Submissions 40/9 and 35/19 are accepted.

## 1.40 Upgrading and changes to existing above ground Electric and Telecommunication lines

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Vector Ltd	35/46	Oppose the deletion of the existing District Plan definition of 'upgrading'	
Vector Ltd	35/34	Delete S 14.5.3.7(a) or amend so that it is consistent with the current District Plan provisions relating to 'upgrading'.	
Vector Ltd	35/35	Delete S 14.5.3.7(b)(i) and (ii) or amend to give effect to Vector's concerns regarding height and location of pole replacement.	
Vector Ltd	35/47	Delete the proposed new 'maintenance' definition, or alternatively amend it so that it is clear and precise and meets the concerns of Vector as outlined elsewhere in this submission.	
Vector Ltd	35/22	Amend row 10 of the Electricity Section of Activity Table 14.1 to change the activity status for above ground electric lines where activity does not comply with Rule 14.5.3.7 from discretionary to controlled, with appropriate controls reserved to Council.	
Kurt Marquart	54/3	When utilities are approved for a particular function, prevent them changing use from that approved function.	<b>Oppose</b> 54-3x295 Vector Ltd

### 1.40.1 Decision

Submission 35/46 opposes the deletion of the existing definition of 'upgrading'. The definition has been removed as 'upgrading' is used by utility companies to extend the scope of existing activities. On some occasions Council is of the view that the works that are done are beyond the scope of what is permitted by 'upgrading'. Furthermore, the definition is rather loose in its application and requires some interpretation in order to understand when it is or is not applicable. This is not considered satisfactory for a permitted activity. Submission 35/46 is rejected.

Problems often arise when the upgrading definition is applied to works on above ground electric and telecommunication lines. For this reason the upgrading definition has been replaced by Rule 14.5.3.7 - Changes to existing above ground Telecommunication lines and Electric lines. This definition provides a discrete set of circumstances in which work done to above ground lines is acceptable as a permitted activity. This provides certainty for the utility operator and for Council as both parties can see what is permitted and what is not. Policy 10 explains the plan change's approach to undergrounding, which is to encourage the undergrounding of above ground utilities. Extensions to above ground lines that increase their effects are not encouraged. Submission 35/34 is rejected. With regard to S14.5.3.7 (b)(i) and (ii), replacement poles are given a number of options for location as permitted activities, which should minimise any problems with aerial trespass and uneven pole alignment. Submission 35/35 is rejected.

A definition of 'maintenance' has also been inserted to allow maintenance as a permitted activity. While this definition is not as precise as Rule 14.5.3.7, it is clear that 'the protective care of a resource' envisages maintenance work, and not an extension of activities that is countenanced by the current definition of

upgrading. It is considered that the definition provides enough guidance to utility companies as to what is a permitted activity. Submission 35/47 is rejected.

When changes to above ground lines are outside the circumstances outlined in 14.5.3.7 and are not permitted activities, submission 35/22 argues that the activity status should be a controlled activity, and not discretionary. As discussed above the approach of this plan change is to encourage undergrounding. From this policy perspective, it is considered appropriate that work done that extends beyond the scope of permitted activities requires a discretionary activity consent. It is also consistent with the activity status for new above ground lines. Furthermore, Council cannot refuse controlled activities. The submission is rejected.

Submission 54/3 requests that utilities not be permitted to change their use from that initially approved. The degree to which the use has changed depends on whether a utility will be permitted to change its use. If the proposed use is sufficiently similar to the existing use it will have existing use rights which entitle it to change as a permitted activity. If the use changes more dramatically, a resource consent may be required. These principles are reflected in the discussion above. The submission is accepted in part.

#### 1.40.2 Recommendation

Submission 35/46 is rejected.

Submission 35/47 is rejected.

Submission 35/34 is rejected.

Submission 35/35 is rejected.

Submission 35/22 is rejected.

Submission 54/3 and further submission 53-3x295 are accepted in part.

#### 1.41 Electric and Telecommunication Lines

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Clyde Hugh Scott	60/1	Support the Plan change, particularly the clauses on undergrounding above ground lines.	<b>Oppose</b> 60-1x298 Vector Ltd
Andrew Nyhoff	23/1	Support the requirement to place cables underground, and extend this requirement to existing cables.	<b>Oppose</b> 23-1x240 Vector Ltd
Vector Ltd	35/21	Amend row 9 of the Electricity Section of Activity Table 14.1 to change the activity status of new above ground electric lines from discretionary to limited discretionary.	
Vector Ltd	35/42	Amend Rule 14.7.1.3 so that the matters the Council has restricted its discretion to in relation to new above ground service/connection lines to and from the network also apply to new above ground telecommunication lines on the network.	
Telecom NZ	31/9	Support row 25 in Activity Table 14.1 Telecommunications - 'New above ground telecommunication lines'. Amend this rule to allow new above ground telecommunication lines as a permitted activity in Rural zones.	
Vector Ltd	35/41	Amend Activity Table 14.1 to include an activity rule that makes new above ground telecommunication lines on the network a permitted activity in the Rural zones and a limited discretionary activity in all other zones.	
Vector Ltd	35/48	Amend definition of 'Electric (or Electricity) Line or Lines' be amended to the following; <i>'Means an electric line as defined in the Electricity Regulations 1997 and its amendments.'</i>	
Vector Ltd	35/43	Amend the issues, objectives and policies of this plan change to appropriately recognise submissions 42 and 41.	
Vector Ltd	35/25	Support and retain those parts of the Electricity Section of Activity Table 14.1 that are permitted activities.	

##### 1.41.1 Decision

Submission 60/1 supports the clauses on undergrounding above ground lines. The submission is accepted. Submission 23/1 also supports these clauses but requests that the requirement be extended to existing

cables. Existing above ground cables or lines have existing use rights and Council cannot require these to be undergrounded. The submission is therefore accepted only in part.

Submission 35/21 argues that the proposed activity status of new above ground electric lines should be amended from a discretionary to restricted discretionary activity, which is consistent with the current rules. It is council policy that lines are to be undergrounded where possible. Preserving the activity status as discretionary is consistent with the implementation of this policy as it encourages this outcome. The submission is rejected. Submission 35/42 requests that Rule 14.7.1.3 apply also to new above ground telecommunication lines. As submission 35/21 has been rejected, the activity status for new above ground lines remains discretionary, so this amendment is unnecessary.

Submissions 31/9 and 35/41 request that new above ground telecommunication and electric lines in rural zones should be classified not as discretionary activities but as permitted. In rural zones there is less population to justify the cost of undergrounding lines and as above ground lines already exist in the rural areas it can be argued that the effect of further lines will be minimal. On the other hand, rural 2 and 3 zones are landscape areas where above ground structures are discouraged, and allowing more above ground lines simply creates more existing uses that will have to be dealt with into the future. It is considered that a discretionary activity status is appropriate for activities in all areas, including rural zones. The submissions are rejected.

Submission 35/48 requests an amendment to the plan's proposed definition of electric line to ensure that any amendments to the definition of electric line in the Electricity Regulations 1997 will change the definition in the plan accordingly. Part 3 of the First Schedule demands that changes to material inserted into a plan by reference will have legal effect in the plan only if the plan has been amended according to the process outlined in Part 1 of the Schedule. It is not considered acceptable for the definition of electric line to change without going through this process. Even if this is not a correct interpretation of the law, if the submission is accepted, any changes to the definition of 'electric line' in the Electricity Regulations may affect the District Plan in a way that was not intended. Council may then have to go through a plan change to remedy this. This lack of certainty is not desirable for Council or an applicant. The submission is rejected.

Submission 35/43 requests that the issues, objectives and policies be amended to recognise submissions 35/41 and 35/42. As these submissions have been rejected, any changes are unnecessary.

Submission 35/25 is accepted.

#### 1.41.2 Recommendation

Submission 60/1 is accepted and further submission 60-1x298 is rejected.

Submission 23/1 and further submission 23-1x240 are accepted in part.

Submissions 35/21 and 35/42 are rejected.

Submissions 31/9 and 35/41 are rejected.

Submission 35/48 is rejected.

Submission 35/25 is accepted.

#### 1.42 Section 14.5.3.6 Underground service/connection lines

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Telecom NZ	31/8	Oppose row 23 in Activity Table 14.1 Telecommunications - 'Other new above ground Telecommunication service/connection lines'. Amend rule for new overhead connections from existing overhead network to be permitted activities, which is in line with the existing provisions in the operative plan.	
Vector Ltd	35/40	Support row 23 in Activity Table 14.1 that provides for 'Other new above ground TELECOMMUNICATION SERVICE/CONNECTION LINES' to be a permitted activity in Rural Zones and a limited discretionary activity in all other zones.	
Vector Ltd	35/33	Amend S 14.5.3.6 Underground service/connection lines, to explain and clarify what is meant by 'recessive colours'.	
Vector Ltd	35/38	Amend 14.7.1.3 i) as follows; <i>'i) the adverse visual effect with respect to neighbouring dwellings primarily when viewed from habitable rooms should be avoided, remedied or mitigated, where practicable.'</i>	

Vector Ltd	35/39	Support 14.7.1.3 iii) together with new objectives and policies.	
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### 1.42.1 Decision

Submission 31/8 opposes the requirement for new above ground service/connection lines, connected to an above ground network, to be limited discretionary activities. It argues they should be permitted, as they are in rural zones and in the existing rules. Currently, the practice is that new infill subdivision service/connection lines are put underground as a condition of consent. Where existing above ground service/connection lines cross new accessways they will also be undergrounded as a condition, as the change in circumstances mean they no longer have existing use rights. A change in activity status from permitted to restricted discretionary is therefore catching up with common practice. In the long term it is envisaged that all lines will be located underground. Allowing above ground service connection lines as permitted activities creates activities that have rights as existing uses, which will make it more difficult for this to happen. In rural zones the activity status remains permitted as the lines will often be of much greater length than found in other zones, making the cost of undergrounding prohibitive. The submission is rejected. Submission 35/40 supports this rule, and is accepted.

Submission 35/33 requests S14.5.3.6 to be amended to explain and clarify what is meant by 'recessive colours'. The intention of the term 'recessive' is to indicate that, like the dictionary definition 'tending to recede', the above ground part of the service/connection line should not attract the eye as the current white and bright orange pipes do. While a technical definition could be inserted it is considered that the plain meaning of the word is sufficient to guide utility operators as to what is required, whilst also allowing some degree of latitude in compliance. The submission is rejected.

Submission 35/38 opposes assessment criteria 14.7.1.3 i) as it is not always practicable. It is considered that the proposed phrase 'where practicable' removes any effectiveness from this assessment criteria as it is always easy to show that one option is more practicable than another. It is noted that the assessment criteria for this activity links to the general controlled activity criteria, which includes "the extent to which other criteria are constrained by operational or technical issues". The limitations imposed by operational and technical constraints will therefore be taken into account. The submission is rejected.

Submission 35/39 is accepted in that 14.7.1.3 iii) is supported. However, the new objectives and policies that the submission refers to have not been accepted (see part 1.4 and 1.5). The submission is accepted in part.

### 1.42.2 Recommendation

Submission 31/8 is rejected.  
 Submission 35/40 is accepted.  
 Submission 35/33 is rejected.  
 Submission 35/38 is rejected.  
 Submission 35/39 is accepted in part.

## 1.43 Telecommunication kiosks

Submitter	No.	Summary of Decision Sought	Further Submitter/s
Woosh Wireless Ltd	40/10	Oppose activity status of telecommunication kiosks outside the road reserve in Recreation 1 zone, in row 4 of Table 14.1 Activity Status Telecommunications. Amend this from limited discretionary to controlled.	
Telecom NZ	31/3	Oppose row 5 in Activity Table 14.1 Telecommunications, that provides for telecommunication kiosks in the road reserve to be controlled activities. Amend Table 14.1 to make telecommunication kiosks permitted activities within the road reserve.	
Woosh Wireless Ltd	40/11	Support activity status of telecommunication kiosks within the road reserve, in row 5 of Table 14.1 Activity Status Telecommunications.	

### 1.43.1 Discussion

Submission 40/10 requests a change in activity status for telecommunication kiosks outside the road reserve, in Recreation 1 zones, from restricted discretionary to controlled, as this limitation restricts the opportunity to roll out a city wide telecommunication utility network. The opportunity to locate utilities on Recreation 1 land is restricted as it is considered by Council that utilities should only be located on



Recreation land when they are linked to the purpose of the zone and do not have undue adverse effects on the amenity of the reserve (see discussion on Policy 7 in Part 1.4.1). It is possible to locate utilities on reserves but it is considered necessary for Council to be able to refuse the location of the utility if it is considered inappropriate. A controlled activity status does not afford this opportunity.

Submission 31/3 deals with the activity status of telecommunication kiosks in the road reserve and submits that the status should be permitted, as the road opening notice procedures address many of the effects of a kiosk. Although some of the effects can be addressed through this procedure (health and safety of pedestrians etc), some amenity and CPTED issues (crime prevention through environmental design) cannot. This makes it important for Councils to have some ability to assist in determining the location of kiosks in the road reserve.

The submission notes that permitted activity status would be helpful as there are often troublesome delays with relocating kiosks when, for example, local shops are redeveloped. Where a kiosk requires relocation, if it is sufficiently similar to the previous situation, it will be accepted as an existing use. If not, then a new assessment will be justified as the circumstances will have changed. The submission also compares kiosks to bus stops in the road reserve, which are permitted activities, and argues that kiosks should be treated in a similar manner. In the opinion of Council, unlike kiosks, bus stops are integral to the public function of the road system and are more suitable for permitted activity status for this reason. Kiosks are less crucial to the functioning of the road system.

Submission 40/11 supports the activity status of telecommunication kiosks in the road reserve, and is accepted.

#### 1.43.2 Recommendation

Submissions 40/10 and 31/3 are rejected. Submission 40/11 is accepted with no amendments recommended.

**Prepared by:** Jeremy Wyatt  
Environmental Policy Advisor

**Signature:** 

**Approved by:** Trevor Mackie  
Manager, Environmental Policy & Planning

**Signature:** 

Date: 14 November 2006



## Attachment 1

# Proposed Plan Change 18 Provisions

These amendments are shown in two parts.

### Part 1 – Page 3 - 31

This shows proposed changes to Section 14 Public Works and Network Utilities. As the proposed provisions replace all parts of Section 14 up to and including Rule 14.7, all new text in this part is shown as normal text.

### Part 2 – Page 32- 38

This shows amendments to other sections of the Plan and consequential changes. In this section the text that was amended at the time of notification is shown as underlined and deleted text as ~~strike through~~. Where text has been amended as a result of submissions it is shown as *italicised* as well. Some existing text is shown to place the changes in context.

## Part 1

***Delete Section 14.1 to 14.7. Replace with the following text on pages 3 - 31.***

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## **14. Network Utilities and Designations**

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### **14.1 Introduction**

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The successful functioning of the city and its many services depends on a complex network of utilities and designations including water and wastewater reticulation; electricity transmission, distribution networks; telecommunication networks (including privately owned aerials and antennas); gas networks; the wastewater treatment plant; landfills; defence; public hospitals; and schools. Some of these network utilities are implemented by way of resource consent, and others by way of designation.

#### **Network Utilities**

Network utilities are provided for under the Act by way of Permitted activity or by resource consent. The part of this Section 14 comprising objectives, policies, rules and assessment criteria apply where network utility operators do not intend, or are unable, to operate under the designation procedures of the Act. Section 14 will also be used by Council to help assess any outline plans submitted for new network utilities or activities on designated sites, or where an area is designated but works are conducted which are not in accordance with the designation.

In managing the effects of network utilities, recognition should be given to the essential role that these networks play and the services they provide in the functioning of the city. It is also recognised however that the nature of some network utilities and works can detract from the amenity of an area and in some cases may impinge upon public health and safety. In some circumstances, the effects of network utilities are addressed by other instruments (for example, health and safety provisions, traffic safety and flow, construction). Where environmental effects are not fully addressed by other instruments, the District Plan supplements these and establishes a resource management framework for balancing these competing demands and conflicting requirements.

## Designations

Public works and some private projects or works are provided for under the Act by way of designation. Certain organisations are able to 'require' land for the purposes of a designation. This is referred to as a requirement. The organisation making the requirement is referred to as a 'requiring authority'. Organisations that are 'requiring authorities' include Ministers of the Crown, local authorities and also private bodies who are network utility operators and who have obtained status as a requiring authority under Section 167 of the Act. Status as a requiring authority provides the power to require land, including private land, to be set aside for designated activities for which the requiring authority is financially responsible.

Following Council assessment of the requirement, the requirement is included in the Plan and becomes a designation. The effect of designating land is to authorise the use of that land for a particular work (eg school, police station, electricity substation). Once a designation is in place it takes precedence over the zoning of the land, but it can only be used for the purpose for which it has been designated, unless a resource consent is sought and obtained. Nor may other people, without the prior written consent of the requiring authority, do anything in relation to the designated land that would impede the designated activity. The zoning of the land that is covered by the designation is then called the underlying zoning, and this zoning applies for works that are not in accordance with the designation or where a designation is removed. Any reference to 'network utilities' in this Section therefore may also apply to designations.

The provisions of this Section 14 apply to network utilities and designations throughout all parts of the city. Roads, as public works, have been addressed in this section but are dealt with further, and in more detail, in the Transportation Section.

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## 14.2 Network Utilities and Designations: Issues

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The following resource management issues relating to network utilities and designations have been identified:

- 14.2.1 Network utilities provide a network of services that are essential to the maintenance and enhancement of the quality of life of the community. Failure to facilitate the provision of an adequate network of network utilities has the potential to undermine this quality of life.**

*Network utilities are facets of the modern city that most of the community takes for granted. They are essential to the effective, efficient and safe operation of many activities throughout the city. Subject to the Act's requirement to avoid, remedy or mitigate any adverse effects from the network utilities themselves, it is essential that these services be provided in an efficient and effective manner, and to a standard that is adequate to support the many activities that rely on them.*

- 14.2.2 The potential for adverse environmental effects and the degradation of landscape, streetscape and residential amenity values resulting from the construction, operation and maintenance of network utilities.**

*Many network utilities are part of a network system with operational requirements and design features that can cause adverse effects. The location, size and design of some buildings and structures can have an adverse visual effect on landscape, streetscape and residential and public amenity. Network utilities also have the potential to affect other amenity values through the emissions of noise, odour and vibrations.*

**14.2.3 The potential for adverse effects on the health and safety of the community resulting from the construction, operation and maintenance of network utilities.**

*There is potential for network utilities to adversely affect the health and safety of the community. Some network utilities in the road reserve present hazards to vehicles and pedestrians. There are risks associated with accidental spillage or leakage of hazardous substances. Electricity transmission and distribution generates the risk of electrocution and also electric and magnetic fields which may be a risk to health. Telecommunication facilities generate radio frequency emissions which may, at levels above the New Zealand Standard, have detrimental effects on health.*

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**14.3 Network Utilities and Designations: Objectives and Policies**

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The development of objectives and policies for network utilities and designations has been guided by the following resource management goals as set out in Section 6: Natural Environment, Built Environment, Employment and Economic Growth, and Managing Change. These goals enable and promote the purpose of the Act.

**14.3.1 Objectives**

**14.3.1 The construction, operation and maintenance of an efficient and effective network of utilities that meets the needs of the community.**

**14.3.2 To avoid, remedy or mitigate any adverse environmental effects of network utilities, including effects on amenity, landscape, streetscape and heritage values, arising from the construction, operation, and maintenance of network utilities.**

**14.3.3 An environment where the health and safety of the community is not adversely affected by the construction, operation and maintenance of network utilities.**

**14.3.2 Policies**

**1 To have regard to the operational and technical requirements of network utilities in the assessment of resource consent applications for network utilities.**

**2 Network utilities shall be designed, sited, operated and maintained in such a way that avoids, remedies or mitigates adverse effects on other network utilities.**

**3 Network utilities shall be designed, sited, operated and maintained in such a way as to avoid, remedy or mitigate adverse effects on the environment of emissions of noise, light, vibration, odour or hazardous substances.**

**4 Network utilities shall be designed, sited, operated and maintained so that they avoid, remedy or mitigate any adverse effects on the area. This includes, but is not limited to, any adverse effects on;**

- (a) any site, building, place or area, and**
- (b) the landscape or streetscape, and**
- (c) any site, building, place or area of heritage and archaeological value, and**

- (d) the amenity values of any of these places.
- 5 To recognise that reserve land, and land zoned Recreation 1 in particular, is intended to be open public space free from the adverse effects of buildings, structures and activities not linked to the purpose of the zone. Siting of network utilities must avoid, remedy or mitigate adverse effects on;
- (a) The amenity of the reserve, and
  - (b) Public use and enjoyment of the reserve, and
  - (c) The potential for future development of the reserve.
- 6 To encourage the co-location of structures, the shared use of structures, and the use of existing network utility corridors, subject to;
- (a) Technical and operational feasibility, and
  - (b) Recognition that the positive effects can be outweighed by the adverse cumulative effects.
  - (c) Avoiding, remedying or mitigating any adverse effects.
- 7 To encourage the location of aerials and antennas on buildings, and the location of antennas on streetlights, to reduce the need for masts and to avoid, remedy or mitigate the adverse visual effects of aerials and antennas.
- 8 To;
- (a) Require the undergrounding of electric and telecommunication lines in newly developing areas and for infill and redevelopment in established areas, and to encourage these outcomes in established areas, especially when other street improvement works make this aesthetically desirable, and
  - (b) Encourage the undergrounding of above ground network utilities in the road reserve.
- 9 Network utilities, and in particular those network utilities emitting radiofrequency fields or generating electric and magnetic fields, must be designed, sited, operated and maintained in such a way as to avoid, remedy or mitigate potential adverse effects on the health, safety and wellbeing of people and communities.

### 14.3.3 Methods

- Policies 1-11 will be implemented by rules
- Policies 1-6 will be implemented by the Code of Practice for Working in the Road
- Policy 10 will be implemented by Council initiatives
- Policy 11 will be implemented using Industry Standards to guide the administration of rules in the District Plan
- Policies 1-3, 6, 9, and 10 will be implemented using the North Shore City Council Infrastructure Design Standards to guide the administration of rules in the District Plan.

#### ***Explanation and Reasons***

*The primary means of achieving the objectives and policies of Section 14 is through the operation of the rules within the Plan. The rules are intended to ensure that network utilities are provided for and established but at the least environmental and amenity cost to the community. Development and Activity controls are baseline rules that apply to all network utilities to ensure that amenity values and the quality of the environment in the City are maintained. Development controls are specific controls that apply to network utilities and*

*activity controls provide a cross reference to controls in other sections of the Plan to ensure that network utilities adhere to the baseline standards set out in those sections of the Plan. As well as these controls, the activity status of the various network utility activities may vary in different zones of the City in recognition of the effects that each activity has on areas of different character and sensitivity.*

*The Council supplements the use of rules by using tools that lie outside the District Plan. These include Road Opening Notices and the Code of Practice for Working in the Road.*

*Many network utilities are located within the road reserve because legislation (for example the Telecommunications Act 2001, the Electricity Act 1992 and the Gas Act 1992) allows network utility operators access to Council administered roads to install and maintain the relevant network utilities. Any utility operator (or private individual) wishing to work in the road must submit to Council a Road Opening Notice. This provides Council with details of the planned work and enables Council to set 'reasonable conditions' (according to the terms of the relevant legislation) of access to the road reserve. These conditions are primarily related to 'operational matters' that concern the protection of Council's road asset and its primary function as a transport resource. Examples might include conditions relating to reinstatement of the road and the safe and efficient flow of traffic. Theoretically, such operational conditions should not directly address environmental effects such as amenity considerations, as these should be imposed through resource consents or District Plan provisions. Such operational matters often have the consequential effect of addressing amenity values, however. Although permitted activities in the road reserve are not heavily regulated in the District Plan – because they are judged to have few environmental effects – in the road reserve this ensures they are still subject to a process that that minimises any negative environmental effects on the amenity of the City.*

*Council has also agreed with network utility operators on the provisions of the Code of Practice for Working in the Road. This agreement is based on the concept of partnership and prioritises co-operation and working together in a dependable and trustworthy manner. It also sets out the technical standards to which work in the road reserve is to be carried out, including position of services, site construction and reinstatement. The engineering specifications contained in Council's Infrastructure Design Standards are also relevant to network utility activities, particularly those concerning the water supply, wastewater and stormwater, and those network utilities located in the road reserve.*

*Industry Codes and Standards can be useful tools for setting an acceptable benchmark for evaluating environmental effects. The rule relating to emissions of radio frequency fields and extremely low frequency electric and magnetic fields is set in the District Plan by reference to such Industry Standards. Another Industry Code to which the District Plan has regard is NZECP 34: 2001, a Code of Practice for Electrically Safe Distances.*

#### **14.3.4 Environmental Results Anticipated**

The anticipated environmental results from the implementation of the above objectives, policies and methods are;

- A city with network utilities that adequately provide for community needs and do not have significant adverse environmental effects, as measured by resident perception surveys.
- Whether network utilities are considered to adversely affect amenity values in more sensitive areas such as recreation and coastal areas, and those containing cultural, built and natural heritage. This will be measured by resident perception surveys.
- Avoidance of the adverse effects of network utilities on the health and safety of people, as measured by regional health assessments.
- Increasing the quantity of network utilities that are undergrounded. This will be measured by the length of electric and telephone lines and the numbers of minor utility structures that are undergrounded.

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## **14.4 Rules: Network Utility Activities**

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### **14.4.1 Underlying zoning**

#### **14.4.1.1 Activities within road reserve**

In the case of any activities within road reserve, including designated road that is not yet legal road, the underlying zoning is deemed to be that of the immediately adjacent land extending to the mid point of the road.

#### **14.4.1.2 Zoning on road stopping**

Where roads or accessways are stopped and the designation is uplifted, the subject land will take on the underlying zoning that applied when the designation was in force.

#### ***Explanation and Reasons***

*Roads, proposed roads, road closures, accessways and service lanes are shown as designations on the District Plan maps, and accordingly, have underlying zonings.*

### **14.4.2 Activity Status**

The activity statuses of network utilities are set out in Table 14.1.

An activity status set out in Table 14.1 may be changed by provisions in other parts of the Plan (see 14.5.4).

Unless Structure Plan zones are separately referred to in this Section 14, all references to Residential zones include Structure Plan zones.

#### ***Explanation and Reasons***

*'Network Utilities' is defined in Section 21. This includes the works of network utility operators and for the purposes of this Plan also includes;*

- those parts of the telecommunication networks that are privately owned, including privately owned aerials and antennas.*
- any activity emitting radio frequency fields, whether owned privately or by network utility operators.*

*The activity status of the different network utilities is set out in Table 14.1. This activity status may be changed by provisions in other parts of the Plan. For example, although an activity may be listed in Table 14.1 as being a Permitted activity, if it does not comply with rules elsewhere in the Plan (eg noise), this activity status will change and a resource consent will be required.*

*The table is organised by the type of network utility activity (for example, Telecommunications, Electricity, Gas). There is also a Miscellaneous section that applies to those activities that do not fit under one of the types of network utility activity. Some activities which are generic in nature and apply across all types of network utilities are also contained in this section, including minor utility structures.*

*For some activities the rules that apply in the road reserve differ from those applying outside the road reserve. In these cases the rules state whether it applies to areas within the road reserve (RR) or outside the road reserve (Not RR). Where the road reserve is not mentioned, the rule applies to areas both in and outside the road reserve.*

*Each activity is specified as being Permitted, Controlled, Limited Discretionary, Discretionary or Non complying, with the following abbreviations being used;*



<b>P</b>	Permitted activity
<b>C</b>	Controlled activity
<b>LD</b>	Limited Discretionary activity
<b>D</b>	Discretionary activity
<b>NC</b>	Non complying activity

*In the Activity Table, those terms that are defined in Section 21 of this Plan are written in uppercase text.*

<b>Table 14.1 Activity Status</b>					
	<b>P</b>	<b>C</b>	<b>LD</b>	<b>D</b>	<b>NC</b>
<b>RR</b> – Rules apply for activity in the road reserve <b>NOT RR</b> – Rules apply for activity outside the road reserve <b>No reference</b> – Rules apply for activity in all areas					
<b>Miscellaneous</b>					
The operation and MAINTENANCE of NETWORK UTILITIES in existence on 17 October 1994	All zones				
<b>NOT RR</b> - Underground NETWORK UTILITIES not covered in other sections of this Table 14.1	All zones other than Recreation 1			Recreation 1	
<b>RR</b> - Underground NETWORK UTILITIES not covered in other sections of this Table 14.1	All zones				
<b>NOT RR</b> -Any MINOR UTILITY STRUCTURE which complies with Rule 14.5.2-14.5.4, and <ul style="list-style-type: none"> <li>• does not exceed 1.8m in height above NATURAL GROUND LEVEL, and</li> <li>• with a maximum length of 2.5m and maximum depth of 1.2m, and</li> <li>• which in any case do not exceed 3.5 cubic metres in total volume</li> </ul>	All other zones		Residential zone 3	Recreation zones	
<b>NOT RR</b> - Any MINOR UTILITY STRUCTURE which complies with Rule 14.5.2-14.5.4 and exceeds any of the above dimensions	Business 2-11, Rural and Special Purpose 1-4 and 12 zones		All other zones	Recreation and Residential 3 zones	
<b>RR</b> - Any MINOR UTILITY STRUCTURE, which has a total ground coverage not exceeding 0.5m <sup>2</sup> in area and has a height not exceeding 1m above NATURAL GROUND LEVEL	All zones other than Recreation 1			Recreation 1	

<b>RR – Rules apply for activity in the road reserve</b> <b>NOT RR – Rules apply for activity outside the road reserve</b> <b>No reference – Rules apply for activity in all areas</b>	<b>P</b>	<b>C</b>	<b>LD</b>	<b>D</b>	<b>NC</b>
<b>RR</b> - Any MINOR UTILITY STRUCTURE which <ul style="list-style-type: none"> <li>• does not exceed 1.8m in height above NATURAL GROUND LEVEL, and</li> <li>• with a maximum length of 2.5m and maximum depth of 1.2m, and</li> <li>• which in any case do not exceed 3.5 cubic metres in total volume</li> </ul>	Rural zones and Business zones 7-10	All other zones		Recreation 1	
Any MINOR UTILITY STRUCTURE, which: <ul style="list-style-type: none"> <li>• exceeds the sizes for Permitted or Controlled activities, or</li> <li>• does not comply with any of the Rules 14.5.2-14.5.4</li> </ul>			All zones other than Recreation 1	Recreation 1	
Temporary above ground SERVICE/ CONNECTION LINES to BUILDINGS and sites; <ul style="list-style-type: none"> <li>• for the period of construction only, or</li> <li>• in an emergency</li> </ul>	All zones				
<b>RR</b> - Street furniture and street landscaping where approved by Council	All zones				
<b>NOT RR</b> - PUBLIC LETTERBOX	All zones other than Recreation zones		Recreation zones		
<b>RR</b> - PUBLIC LETTERBOX		All zones			
<b>NOT RR</b> - POSTAL HOLDING BOXES	All zones other than Recreation zones			Recreation zones	
<b>RR</b> – POSTAL HOLDING BOXES				All zones	
Any NETWORK UTILITY which is a Permitted or Controlled activity and does not comply with any of the Rules 14.5.2-14.5.4, where this circumstance is not specifically provided for				All zones	
<b>Transport</b>					
Parking areas associated with transport infrastructure such as bus stops, transfer stations and “park and ride” facilities		All Business zones except Business Local 1		All other zones including Business Local 1	

RR – Rules apply for activity in the road reserve NOT RR – Rules apply for activity outside the road reserve No reference – Rules apply for activity in all areas	P	C	LD	D	NC
TRANSPORT EQUIPMENT	All zones				
NOT RR – Bus shelters	All zones				
RR - Bus shelters	All zones provided activity complies with Rule 14.5.3.8			All zones where activity does not comply with Rule 14.5.3.8	
<b>Telecommunications</b>					
All ACTIVITY EMITTING RADIO FREQUENCY FIELDS	All zones provided activity complies with Rule 14.5.1				All zones where activity does not comply with Rule 14.5.1
NOT RR - Underground NETWORK UTILITIES for Telecommunication networks	All zones other than Recreation 1			Recreation 1	
RR - Underground NETWORK UTILITIES for TELECOMMUNICATION networks	All zones				
NOT RR - TELECOMMUNICATION KIOSKS	All zones other than Recreation zones		Recreation zones		
RR - TELECOMMUNICATION KIOSKS		All zones			
AERIALS	All zones provided activity complies with Rule 14.5.3.1		All zones where activity does not comply with Rule 14.5.3.1		
ANTENNAS attached to a BUILDING (excluding a MAST) that do not exceed <ul style="list-style-type: none"> <li>1m<sup>2</sup> in area or 1m in diameter</li> </ul>	All zones				
ANTENNAS attached to a BUILDING (excluding a MAST) that do not exceed <ul style="list-style-type: none"> <li>1.5m<sup>2</sup> in area or 1.4m in diameter</li> </ul>	All other zones	Residential, Recreation, Business 1 and Special Purpose 3-11 and 13 zones			

<b>RR – Rules apply for activity in the road reserve</b> <b>NOT RR – Rules apply for activity outside the road reserve</b> <b>No reference – Rules apply for activity in all areas</b>	<b>P</b>	<b>C</b>	<b>LD</b>	<b>D</b>	<b>NC</b>
ANTENNAS attached to a BUILDING (excluding a MAST), not exceeding 2.5m <sup>2</sup> in area or 2m in diameter.		All other zones	Residential, Recreation, Business 1 and Special Purpose 3-11 and 13 zones		
ANTENNAS attached to a BUILDING (excluding a MAST), that are Permitted or Controlled activities and do not comply with Rule 14.5.3.2			All zones		
MASTS in accordance with the height limits in 14.5.3.3		Business zones 2-11 and Special Purpose 1,2 and 12 zones	All other zones (including Business 1 where not adjacent to Residential 3 zone)	Recreation zones	Residential 3 and Business 1 where adjacent to Residential 3 zone
ANTENNAS attached to a MAST that do not exceed 1m <sup>2</sup> in area or 1m in diameter		Business 2-11, Special Purpose 1,2 and 12 zones	All other zones		Residential 3
ANTENNAS attached to a MAST, not exceeding 2.5m <sup>2</sup> in area or 2m in diameter			Business 2-11, Special Purpose 1,2 and 12 zones	All other zones	Residential 3
ANTENNAS attached to street lights provided that; <ul style="list-style-type: none"> <li>• the ANTENNA does not exceed 1m<sup>2</sup> in area (dish antennas are excluded), and</li> <li>• the height of the ANTENNA does not exceed the height of the existing structure by more than 2.5m or 25 percent of the height of the structure, whichever is greater, and</li> <li>• up to 3 ANTENNAS may be attached, and</li> <li>• the diameter of the replacement pole should not exceed that of the original streetlight by more than 25%.</li> </ul>		Business 2-11 Rural zones and Special purpose 1,2 and 12 zones	All other zones	Residential 3	
Up to 4 ANTENNAS attached to a MAST, provided that only one may be a dish ANTENNA and it may not have a diameter greater than 300mm		Business zones 2-11 and Special Purpose 1,2 and 12 zones	All other zones	Recreation zones	Residential 3

RR – Rules apply for activity in the road reserve NOT RR – Rules apply for activity outside the road reserve No reference – Rules apply for activity in all areas	P	C	LD	D	NC
Up to 7 ANTENNAS attached to a MAST, provided that only one may be a dish ANTENNA and it may not have a diameter greater than 600mm		Business zones 2-11 and Special Purpose 1,2 and 12 zones		All other zones	Residential 3
ANTENNAS, AERIALS and MASTS not otherwise provided for in this Table				All other zones	Recreation and Residential 3
Development of two or more RESIDENTIAL UNITS per BUILDING when not in accordance with Rule 14.5.3.4				All zones	
Closed-circuit television cameras	All zones				
Telephone exchanges not exceeding 100m <sup>2</sup> gross floor area		Business and Rural 1,3 and 3A zones		All other zones	
Telephone exchanges exceeding 100m <sup>2</sup> gross floor area				All zones	
New above ground TELECOMMUNICATION SERVICE/CONNECTION LINES where the existing distribution service to which the connection is made is underground.			Rural zones	All zones other than Rural zones	
Other new above ground TELECOMMUNICATION SERVICE/CONNECTION LINES	Rural zones		All zones other than Rural zones		
Changes to above ground SERVICE/CONNECTION LINES	All zones provided activity complies with Rule 14.5.3.7		All zones where activity does not comply with Rule 14.5.3.7		
New above ground TELECOMMUNICATION LINES				All zones	
Changes to above ground TELECOMMUNICATION LINES (not including SERVICE/CONNECTION LINES)	All zones provided activity complies with Rule 14.5.3.7			All zones where activity does not comply with Rule 14.5.3.7	
<b>Electricity</b>					
All activities emitting extremely low frequency electric and magnetic fields	All zones provided activity complies with Rule 14.5.1.3				All zones where activity does not comply with Rule 14.5.1.3

RR – Rules apply for activity in the road reserve NOT RR – Rules apply for activity outside the road reserve No reference – Rules apply for activity in all areas	P	C	LD	D	NC
<b>NOT RR</b> - Underground NETWORK UTILITIES for Electricity networks	All zones other than Recreation 1			Recreation 1	
<b>RR</b> - Underground NETWORK UTILITIES for Electricity networks	All zones				
<b>NOT RR</b> - Electricity SUBSTATIONS. For the purposes of this rule SUBSTATION does not include ‘transformers’ or ‘switchgear’ that are MINOR UTILITY STRUCTURES up to 1.8m high or 10m <sup>2</sup> .		Business 9 and 10, and Rural zones		All other zones	
<b>NOT RR</b> - Electricity SUBSTATIONS which do not comply with Rule 14.5.2-14.5.4. For the purposes of this rule SUBSTATION does not include ‘transformers’ or ‘switchgear’ that are MINOR UTILITY STRUCTURES up to 1.8m high or 10m <sup>2</sup> .				All zones	
New above ground electricity SERVICE/CONNECTION LINES where the existing distribution service to which the connection is made is underground			Rural zones	All zones other than Rural zones	
Other new above ground electricity SERVICE/CONNECTION LINES	Rural zones		All zones other than Rural zones		
Changes to above ground electricity SERVICE/CONNECTION LINES	All zones provided activity complies with Rule 14.5.3.7		All zones where activity does not comply with Rule 14.5.3.7		
New above ground ELECTRIC LINES, excluding HIGH VOLTAGE TRANSMISSION LINES				All zones	
Changes to above ground ELECTRIC LINES (not including HIGH VOLTAGE TRANSMISSION LINES supported by steel tower structures or electricity SERVICE/ CONNECTION LINES)	All zones provided activity complies with Rule 14.5.3.7			All zones where activity does not comply with Rule 14.5.3.7	
MAINTENANCE and/or MINOR UPGRADING (as defined) of existing HIGH VOLTAGE TRANSMISSION LINES, supported by steel tower structures.	All zones				

RR – Rules apply for activity in the road reserve NOT RR – Rules apply for activity outside the road reserve No reference – Rules apply for activity in all areas	P	C	LD	D	NC
Tower replacement on existing HIGH VOLTAGE TRANSMISSION LINES where replacement occurs wholly within that area defined in the diagram set out in Appendix 14K.		All zones			
Tower replacement on existing HIGH VOLTAGE TRANSMISSION LINES where any part of the replacement tower is outside that area defined in the diagram set out in Appendix 14K			All zones		
Changes to HIGH VOLTAGE TRANSMISSION LINES, supported by steel tower structures, not provided for as Permitted, Controlled or Limited Discretionary Activities				All zones	
New above ground HIGH VOLTAGE TRANSMISSION LINES					All zones
<b>Water Services, Wastewater, Stormwater</b>					
<b>NOT RR</b> - Underground NETWORK UTILITIES for water networks except for all activities specifically addressed in this Water Services section of Table 14.1	All other zones			Recreation 1 and Structure Plan zones	
<b>RR</b> - Underground NETWORK UTILITIES for water networks excluding all activities specifically addressed in this Water Services section of Table 14.1	All zones other than Structure Plan zones			Structure Plan zones	
Pipe bridges			All zones other than Recreation 1	Recreation 1	
<b>NOT RR</b> - Pipe bridges where attached to an existing bridge or structure		All zones other than Recreation 1		Recreation 1	
<b>RR</b> - Pipe bridges where attached to an existing bridge or structure		All zones			
Stormwater ponds	Rural and Special Purpose 3	All other zones		Recreation 1	

RR – Rules apply for activity in the road reserve NOT RR – Rules apply for activity outside the road reserve No reference – Rules apply for activity in all areas	P	C	LD	D	NC
Sewage pumping stations, water pumping stations and wastewater storage tanks, provided that; <ul style="list-style-type: none"> <li>they are underground, and</li> <li>any above ground structure does not exceed 30m<sup>2</sup> area</li> </ul>	Special Purpose 1, 3	All other zones		Recreation 1	
Other sewage pumping stations, water pumping stations and wastewater storage tanks	Special Purpose 1, 3			All other zones	
WATER SUPPLY RESERVOIRS, provided they are completely underground		All other zones		Recreation 2 and 3	Recreation 1
Stormwater pumping stations and other WATER SUPPLY RESERVOIRS				All zones other than Recreation 1	Recreation 1
<b>Gas</b>					
<b>NOT RR</b> - Underground NETWORK UTILITIES for Gas networks excluding HIGH PRESSURE GAS LINES	All other zones			Recreation 1 and Structure Plan zones	
<b>RR</b> - Underground NETWORK UTILITIES for Gas networks excluding HIGH PRESSURE GAS LINES	All zones other than Structure Plan zones			Structure Plan zones	
Gas gate stations		Business 9 and 10, and Rural zones		All other zones	Recreation and Residential
Gas gate stations which do not comply with Rule 14.5.2-14.5.4				All other zones	Recreation and Residential
Gas regulator stations not exceeding 20m <sup>2</sup> gross floor area		All zones other than Recreation 1		Recreation 1	
Gas regulator stations exceeding 20m <sup>2</sup> gross floor area				All zones	
HIGH PRESSURE GAS LINES, replacing low pressure gas lines with HIGH PRESSURE GAS LINES, and necessary incidental equipment for all gas networks, including compressor stations				All zones	



RR – Rules apply for activity in the road reserve NOT RR – Rules apply for activity outside the road reserve No reference – Rules apply for activity in all areas	P	C	LD	D	NC
<b>Meteorological Activities</b>					
Meteorological activities provided that; <ul style="list-style-type: none"> <li>• the height of the anemometer mast does not exceed 10 metres</li> <li>• the height of the ancillary building does not exceed 3 metres</li> <li>• the total floor area does not exceed 5m<sup>2</sup>, and</li> <li>• the total site area of occupancy does not exceed 500m<sup>2</sup></li> </ul>		Rural and Business zones		Residential and Special Purpose zones 1, 2, 3, 4, 8, 10	All other zones

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## **14.5 Further Rules and Development and Activity Controls**

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### **14.5.1 Radio-frequency and Electric and Magnetic Fields**

#### **14.5.1.1 Report required before commencing activity**

Any proposal to undertake a new activity emitting radio-frequency fields or extremely low frequency (ELF) electric and magnetic fields, which will result in public exposure, or existing activity that proposes to increase existing levels, should submit a report as required in S 3.10.7.1.6.

#### **14.5.1.2 Radio-frequency fields**

Exposures to radio-frequency fields produced by any activity emitting radio frequency fields shall not exceed the maximum exposure level for the general public in the *New Zealand Standard NZS 2772.1: 1999 Part 1 – Maximum Exposure Levels – 3kHz to 300GHz* measured at all places reasonably accessible to the general public.

#### **14.5.1.3 Electric and Magnetic Fields**

Exposures to ELF electric and magnetic fields shall comply with the guidelines specified by the International Commission on Non-Ionising Radiation Protection (ICNIRP) 1998.

#### ***Explanation and Reasons***

*An activity emitting radio-frequency fields includes activities such as radio and television broadcasting activities, cell phone sites and antennas. These are distinguished from the ELF electric and magnetic fields that are found around power lines and electrical cabling and equipment. Although they are both electromagnetic in origin, the way they interact with the body is fundamentally different as they operate at very different frequencies. For this reason, different standards apply to each type of field.*

*The accepted standard operating in New Zealand for radio-frequency fields is the New Zealand Standard NZS 2772.1: 1999 Part 1 – Maximum Exposure Levels – 3kHz to 300GHz. There is no independent New Zealand standard addressing exposure guidelines for the ELF electric and magnetic fields. Many countries have accepted the guidelines published by ICNIRP in 1998 and the Council also uses these guidelines in the District Plan as a health and safety benchmark.*

*The New Zealand Standard and the ICNIRP guidelines have established levels of exposure to radio-frequency fields and ELF electric and magnetic fields below which adverse effects are thought to be negligible. Activities that comply with these Standards and Guidelines are therefore deemed to have no significant environmental effects in respect of the health, safety and wellbeing of the community. To verify that activities that propose to emit radio-frequency or ELF electric or magnetic fields comply with the respective Standards and Guidelines, Rule 3.10.7.1.6 requires that applications for these activities should include a report verifying compliance with the New Zealand Standard or the ICNIRP guidelines. Amateur radio operators are not required by Rule 3.10.7.1.6 to furnish such a report.*

### **14.5.2 Development Controls**

These controls in 14.5.2 shall apply to all Permitted and Controlled activities in Table 14.1, provided that;

- a) any network utility located entirely within the road reserve shall not be required to comply with the following:
  - i) Landscaping controls in 14.5.2.2

- ii) Parking, loading and access controls
  - iii) Height, height to boundary and yard controls, subject to the Coastal Conservation Area rules in 8.4.1.1 and the Foreshore Yard rule in 16.6.1.5A.
- b) minor upgrading and tower replacement on existing high voltage transmission lines shall not be required to comply with the following:
- i) Landscaping controls in 14.5.2.2
  - ii) Height, height to boundary and yard controls in 14.5.2.4.

**Explanation and Reasons**

*It is unnecessary for some of the following rules to apply to Permitted and Controlled activities in certain situations, for example, landscaping requirements in the road reserve for below ground network utilities and minor utility structures. It is considered that in some cases the coastal conservation area and foreshore yard controls are also unnecessary, for example, where underground network utilities in the foreshore yard are located under or immediately adjacent to the carriageway, as this area is already heavily modified. A similar argument applies to above ground network utilities within the coastal conservation area. It is not intended however that these coastal conservation area and foreshore yard exclusions apply to the areas of road reserve that have no formed carriageway, for example near the coast where the formed road ceases but the road reserve continues to the coastal edge. See Rule 8.4.1.1 and 16.6.1.5A for these rules.*

**14.5.2.1 Reinstatement**

Where the establishment or maintenance of a network utility involves the disturbance of the ground, the body responsible for that work must reinstate the ground to at least the condition existing prior to commencement of the work taking place.

**Explanation and Reasons**

*Reinstatement in the road reserve is an important goal of the Code of Practice for Working in the Road. For work carried out in the road reserve Council uses the principles of reinstatement as summarised in the Code as a standard to assess whether reinstatement has been sufficiently completed.*

**14.5.2.2 Landscaping**

For amenity purposes, where practicable the visual impact of above ground structures shall be remedied or mitigated by landscaping, screening or similar remedial measures.

**Explanation and Reasons**

*The visual appearance of the buildings and structures of network utilities can have a detrimental effect upon the amenity values of an area. This rule has the purpose of enhancing the appearance of such buildings and structures as viewed from the road and neighbouring properties by requiring that landscaping be carried out. It is not always considered practicable to landscape or screen the parts of utility structures that by their design are elevated (for example antennas attached to masts and aerials attached to buildings), although other remedial measures can still be taken, for example sensitive placement or painting.*

**14.5.2.3 Maintenance**

Network utility operators shall maintain and regularly upkeep any above ground structures so as to protect the amenity of an area and prevent any health and safety issues arising. The operator must remove any graffiti or posters from the above ground structure within five working days of notification by the Council. Where above ground structures located in the

road reserve are redundant or obsolete they must be removed. Where underground structures located in the road reserve are redundant or obsolete, a utility operator shall, when requested, supply details to Council concerning those redundant structures, to enable that space to be used.

**Explanation and Reasons**

*Above ground network utilities are common activities and (particularly when located in a road reserve), they are highly visible. This rule has the purpose of ensuring that their appearance is maintained so that they do not detract from the amenity of an area. Those underground network utilities that are located in the road reserve are allocated their own corridors according to the provisions of the Code of Practice for Working in the Road and the Infrastructure Design Standards. Where a pipe or wire is being replaced, the replacement should be located as near as practicable to the designated position in the North Shore City Council Infrastructure Design Standards.*

**14.5.2.4 Height, Height to Boundary and Yard Controls**

All activities in Table 14.1 shall comply with any relevant height, ground coverage or dimension controls specified in that Table. Where no such control is specified for an activity located outside the road reserve and above ground, all structures greater than 1.8m high or 10m<sup>2</sup> shall comply with the development controls for the zones in which they are located.

**14.5.3 Additional Controls for Specific Activities**

**14.5.3.1 Aerials**

**14.5.3.1.1 Aerials attached to a Building**

All aerials identified as Permitted Activities in Table 14.1 Activity Status shall comply with the following;

- i) Height  
The aerial shall not exceed the height of the point of attachment to the building by more than the following;

<b>Zone</b>	<b>Height</b>
Residential and Recreation	3m
Rural	4m
Business	5m
Special Purpose 1,2 and 12	5m
Other Special Purpose zones	3m

An aerial may exceed the height of the zone.

- ii) Numbers  
In Residential zones there shall be no more than 2 aerials per residential unit on any site, except that if there are more than 2 residential units on a single site, only 1 aerial per residential unit is permitted.
- iii) Dimensions  
Any dimension of an aerial (excluding the mountings) shall not exceed 3m.

**Explanation and reasons**

*These rules specify the controls for aerials attached to buildings in different zones. All proposed buildings containing multiple residential units must also comply with Rule 14.5.3.4 in respect of connecting each residential unit to a central aerial.*

**14.5.3.1.2 Aerials attached to a Mast**

- i) Numbers  
Only one aerial is permitted per mast.
- ii) Dimensions  
Any dimension of an aerial (excluding the mountings) shall not exceed 1m.

**14.5.3.1.3 Private pole aerials**

Private pole aerials are aerials affixed to a pole that is fixed to the ground and not on a building or structure, and are intended for private use and not by a network utility operator. All such aerials identified as permitted activities in Table 14.1 Activity status shall comply with the following;

- i) Height  
The height of the pole or aerial shall not exceed the height of the zone, except in rural zones where the maximum height shall be 15m in Rural 1 and 10m in Rural 2-4 zones. In all cases the maximum height shall not exceed 15m.
- ii) Dimension  
The dimension of any aerial attached to a pole shall not exceed 5m, unless it is a single wire aerial in which case the dimension by length is unlimited. The horizontal dimension of the supporting pole section of any private pole aerial shall not be greater than 300mm. The pole may be a simple pole (with or without guys) or may be of lattice construction.
- iii) Number  
Only one private pole aerial is permitted per site.

***Explanation and reasons***

*The rules applying to private pole aerials have been formulated with amateur radio operators in mind. This activity has been distinguished from the rules regarding aerials and masts that apply to network utility operators.*

**14.5.3.2 Antennas attached to Buildings**

**14.5.3.2.1 Antennas in Residential, Recreation, Business 1 and Special Purpose 3-11 and 13 zones**

All antennas identified as Permitted and Controlled Activities in Table 14.1 and located in Residential, Recreation, Business 1 and Special Purpose 3-11 and 13 zones shall comply with the following;

- i) Height  
Where attached to a building, the antenna shall not exceed the height of the point of attachment to the building by more than 2m. An antenna may exceed the height of the zone.
- ii) Numbers  
There shall be no more than 2 antennas per residential unit on any site, except that if there are more than 2 residential units that are physically joined together on a single site, only 1 antenna per residential unit is permitted.
- iii) Yards  
An antenna shall not be located closer than 1m to a site boundary.

**14.5.3.2.2 Antennas in Business 2-11, Rural Special Purpose 1,2 and 12 zones**

All antennas identified as Permitted and Controlled Activities in Table 14.1 and located in Business 2-11, Rural, Special Purpose 1,2 and 12 zones shall comply with the following;

- i) Height  
Where attached to a building, the antenna shall not exceed the height of the point of attachment to the building by more than the following;

Zone	Height
Business 2-11	5m
Special Purpose 1,2 and 12	5m
Rural	3m

An antenna may exceed the height of the zone.

- ii) Numbers  
There shall be no more than one antenna attached to the façade of each residential unit in the Business zones (not including the roof).
- iii) Yards  
An antenna shall be subject to the yard controls for the zone in which it is located.

**Explanation and reasons**

*These rules specify the controls for antennas attached to buildings in different zones. All proposed buildings containing multiple residential units must also comply with Rule 14.5.3.4 in respect of connecting each residential unit to a central antenna.*

*Generally, in Table 14.1 antennas of a certain size have a certain activity status. In some cases however, where a particular antenna is located in a position where visibility from surrounding areas is minimised, a larger antenna is permitted under the same activity status.*

*For example, in Residential, Recreation and Special Purpose zones 3-11 or 13, where an antenna is located below the peak of the roofline and not on the front façade of the building, there is more opportunity for the bulk of the building to absorb the visual effects of the antenna. Where the antenna is located on a smaller building or structure, it is likely that there is not sufficient bulk to accommodate the antenna. In such a case the antenna should be located where it is not visible from public spaces.*

**14.5.3.3 Height of masts and antennas attached to masts**

All masts (including any antennas and aerials but excluding lightening rods) in Table 14.1 Activity Status shall comply with the following height limits:

Zone	Height
Business 2-11	20m
Business 1	10m
Rural 1 zone	15m
Rural 2-4 zones	10m
Residential and Recreation zones	Height of zone
Special purpose zones 1,2 and 12	20m
Other Special purpose zones	10m

#### **14.5.3.4 Development of two or more residential units per building**

Any development that contains two or more residential units in a single building shall connect each individual residential unit to a central aerial and a central antenna. The connection, antenna and aerial shall enable the supply of free to air television and satellite television to each residential unit in the building, to avoid the need for each unit to have a separate aerial or antenna.

#### **Explanation and Reasons**

*Television aerials are a standard fixture on free standing residential units, while the increasing popularity of satellite television has seen the number of satellite television dishes in North Shore City increase dramatically. Where residential units are intensively developed, locating an aerial or satellite dish antenna on the exterior of every residential unit is unsightly and unnecessary. It can be avoided by wiring up each residential unit in a single building envelope to a central aerial or satellite dish antenna at the time of construction of the development. This removes the need for each unit to have its own equipment and lessens the visual pollution that can occur on developments of this nature.*

#### **14.5.3.5 Location of minor utility structures**

##### **14.5.3.5.1 Minor utility structures within the road reserve**

All minor utility structures located in the road reserve and identified as permitted or controlled activities in Table 14.1 Activity Status shall;

- a) be located where they;
  - i) Maintain vehicle access and pedestrian access to adjacent properties
  - ii) Maintain vehicle sightlines by complying with the Land Transport Safety Authority RTS6 "Guidelines for Visibility at Driveways"
  - iii) Do not, to the maximum extent possible, obstruct pedestrian traffic. To enable free pedestrian traffic there should be at least 1.4 m clear footpath width horizontally adjacent to the structure
  - iv) Do not obstruct access to underground network utilities or identified network utility corridors
  - v) Enable ease of maintenance in the area around the structure. In respect to the area between the road reserve boundary and the structure, it should be located either sufficiently close to the road reserve boundary so that the footings remove the need for maintenance, or there should be sufficient room to enable the area to be easily maintained or mowed.
- b) not be located more frequently than one structure every 50 metres on each side of the road reserve. This rule excludes;
  - i) Minor utility structures that are permitted activities
  - ii) Business zones 7-10
  - iii) Those structures located on Primary arterials as identified in Appendix 1 of the District Plan maps, regardless of the underlying zoning.
- c) be of recessive colours that avoid, remedy or mitigate the visual impact of the structure.

#### **Explanation and Reasons**

*These rules set benchmarks for where minor utility structures can be placed so that they do not impinge on the amenity and functionality of the road reserve. Ease of access to neighbouring properties should be maintained and pedestrian safety should not be put at risk by poorly placed structures that impinge on vehicle driver's views. Pedestrians should have at least 1.4m clearance on any footpath to enable all users to use the footpath without obstruction. Minor utility structures should not obstruct access to underground network utilities nor should they impinge on underground network utility corridors. Minor utility structures also create maintenance problems in the road reserve, as poorly located structures*

increase the expense of maintaining the area around it. Structures should either be close enough to the boundary so the concrete footing precludes the need for maintenance of the area between the structure and the road reserve boundary, or they should leave enough room for a mowing strip in this area.

Where they are located in close proximity to each other minor utility structures can create a 'wall' of structures that is visually unattractive. Requiring utility companies to space out the structures will help to reduce this phenomenon. This rule does not apply in areas where amenity is of less importance, such as Business 7-10 zones and on Primary arterials.

#### **14.5.3.5.2 Minor utility structures that serve only one site**

Where a minor utility structure (excluding permitted activities that have a ground coverage not exceeding 0.5m<sup>2</sup> in area and has a height not exceeding 1m above natural ground level) is designed to service only one site it must not be located in the road reserve.

#### **Explanation and Reasons**

For some industrial activities one minor utility structure may be required to service only the one site. In these situations the benefit of the minor utility structure is only for that site and should be located on that property rather than in the road reserve.

#### **14.5.3.6 Underground service/connection lines**

For all underground service/connection lines that are connected to above ground distribution lines, the colour of the above ground portion of the service/connection line shall be recessive. The line may be tagged with coloured markers to indicate the type of line.

#### **14.5.3.7 Changes to existing above ground Telecommunication lines and Electric Lines**

All changes to existing above ground Telecommunication lines and Electric Lines, (including service/connection lines, but not including high voltage transmission lines supported by steel tower structures) shall comply with the following;

- (a) changes to above ground equipment and wires;
  - i) Any above ground equipment shall be of the same or lesser dimensions as that which exists, and shall be in the same or similar position.
  - ii) The number of above ground conductors or wires shall not exceed the existing number and shall be arranged horizontally rather than vertically.
  - iii) Conductors or wires shall be the same or lesser diameter.
  - iv) Cross arms must be of the same or lesser overall dimensions.
  
- (b) changes to poles;
  - i) Replacement poles shall not exceed the height of the existing pole
  - ii) Where the existing pole is located in the road reserve, any replacement pole shall be located or relocated as the case may be;
    - to a position in the road reserve as close to the boundary with adjacent sites as possible, although the boundary edge of the pole shall be not more than 0.4m from the boundary line between two sites, at a perpendicular angle to that boundary line, or
    - in the berm between the footpath and the road provided that the pole is 0.6m from the formed road, or
    - closer than 0.4m to the existing pole, provided that the replacement pole is at least 0.6m from the formed road.

Provided that in any of these situations the proposed replacement pole shall not be located in a position where;



- it obstructs vehicle or pedestrian access to adjacent properties
- it fails to comply with Land Transport Safety Authority RTS06 “Guidelines for Visibility at Driveways”
- it presents a safety hazard to vehicle traffic
- if, in any circumstances, it is necessary for the replacement pole to be located on the footpath, the minimum clear footpath width horizontally adjacent to the replacement pole is less than 2 m in Business zones 1-6 and 11 or 1.4 m in all other zones.

#### **14.5.3.8 Bus Shelters**

All bus shelters identified as Permitted Activities in Table 14.1 Activity Status shall comply with the following standards, terms and conditions:

- a) Advertising and passenger information: Bus shelters must not contain any general commercial advertising. Display cases (or similar) containing timetables or other passenger transport services information may be electronic (variable message type) and may contain commercial symbols provided the display is only readable by users of the shelter or pedestrians passing by (and not by motorists or occupiers of properties in the vicinity).
- b) Bus shelter siting and design: Bus shelters must conform to the following:
  - Shelters shall be a maximum height of 2.7 metres and a maximum coverage often (10) m<sup>2</sup> measured one (1) metre above the pad;
  - The shelter structure design, finishes and colour shall, when viewed as a whole, not generate any significant detractor from the visual amenities of the immediate locality nor be a distraction to motorists, and no part of the structure shall have a reflectivity greater than 37% with the reflectivity of any glass component of the shelter being measured at a normal angle of incidence;
  - Shelters shall only contain or employ lighting sufficient for illuminating passenger transport services information and creating a sense of security for users. The nature of the lighting shall not detract from the existing amenity of the area and must not compromise road safety. The downlit lighting standard shall be up to a maximum of 40 lux as measured at the floor of the shelter, with no more than 4 lux light spill at any private property boundary;
  - Shelters shall be located so there is generally a maximum of 10 metres distance between the shelter and the head (front) of the bus stop;
  - Shelters shall have sufficient unobstructed space for safe and convenient pedestrian and passenger movement around the shelter. In general bus shelters should be located a minimum of 1.4 metres from any vehicle crossing or roadside kerb. However, in high intensity pedestrian or vehicular traffic areas, greater setbacks should be achieved to respond to the increased need for safety and convenience. There should wherever practicable be a minimum of 1.4 metres of unobstructed footpath and a continuous paved surface between the shelter and the kerb at the head of the bus stop.
- c) Prior bus stop approval: Bus shelters shall only be positioned adjacent to bus stops authorised by the Council acting as road controlling authority.
- d) Bus shelter approval under other legislation: Bus shelters must have prior approval under the Local Government Act or such other legislation as may apply to their establishment.

#### ***Explanation and Reasons***

Council has a bus shelter policy (Policy 4.2.9 Bus Shelters) that outlines an approval process for bus shelters under local government legislation. Included in the policy is a process for consideration of any objections to proposed bus shelters. Council's policy provides for appeals to the relevant standing committee of Council by persons not satisfied with the first decision on their objection. Policy 4.2.9 Bus Shelters also includes criteria for the siting and design of bus shelters and these will be upheld unless there are unusual circumstances.

The policy will be reviewed from time to time, through reports to committee meetings that are open to the public, and specifically if Local Government legislation changes. Policy 4.2.9 Bus Shelters can be found in the Council Policy Manual. Further information is available from Council's Transportation and Roading Group.

The above rule has been written in a way which sets out the standards, terms and conditions which need to be achieved and two of these are complemented by technical controls. This format has been followed to ensure both clarity and certainty of expected environmental outcome. The technical controls are explained below.

The reflectivity maximum of 37% is to ensure that the shelter is not a significant detraction from the visual amenity of the immediate locality nor be a distraction to motorists. A key aspect of achieving this is to limit the amount of reflection from the shelter and therefore a reflectivity maximum of 37% has been set. The maximum of 37% reflectivity is, by way of example, about the same as reflection from a caucasian skin tone. Since part of the shelter may be glass and at certain acute angles the reflectivity may exceed 37% from the glass, the reflectivity for the glass will be measured at a normal angle of incidence. Normal incidence of entry is light entering at right angles to the surface it is entering and reflecting off. Light striking the glass at anything other than normal incidence of entry does not therefore have to meet the 37% reflectivity limit.

The rule also sets maximum lighting lux levels. The intention of the rule is to ensure sufficient lighting for illuminating passenger services information and creating a sense of security. In addition consideration must be had for the bus drivers being able to see waiting passengers in the shelter and the level of lighting for waiting passengers which must not be too bright as this can create disorientation and limit visibility from within the shelter. In addition to the passenger considerations the lighting levels must not compromise road safety and detract from the existing amenity of the area. To achieve this, maximum lighting levels (illuminance) in the shelter and at property boundaries have been set. This has been set at up to 40 lux as measured at the floor of the shelter and no more than 4 lux light spill at any private property boundary. Illuminance is the term for the amount of light falling on something. Light levels are generally specified on a horizontal plane usually at ground level. The unit for illuminance is Lux. By way of comparison a full moon has an illuminance of 0.1 lux, twilight an illuminance of 10 lux and direct sunlight an illuminance of 100 000 lux.

#### **14.5.4 Activity Controls**

All Permitted and Controlled activities shall comply with relevant rules specified in the following General Sections. The rules contained in these Sections may change any activity status specified in Table 14.1.

Section 8: Natural Environment

Section 9: Subdivision and Development (including Soil and Water Protection)

Section 10: Pollution and Waste Management (including Noise, Hazardous Substances, Air Emissions, Odour, Dust, Vibration, Lighting)

Section 11: Cultural Heritage

Section 12: Transportation

Section 13: Signs

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## **14.6 Controlled Activities – Reservations and Assessment Criteria**

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Controlled activities must comply with all relevant controls of the Plan, including the Development and Activity controls in 14.5. In addition, the Council may impose conditions under Section 108 of the RMA and for this purpose reserves control over the matters specified below for General and Specific Controlled activities.

### **14.6.1 Reservations and Assessment Criteria for General Controlled Activities**

#### **14.6.1.1 Reservations for General Controlled Activities**

The Council reserves control over the following matters for all Controlled activity resource consent applications;

- a) Design, external appearance and scale
- b) Siting and height
- c) Visual impact including landscaping and screening
- d) Effects on streetscape and amenity
- e) Cumulative effects
- f) Natural and built heritage values
- g) Noise, vibration, odour, glare, dust, air emissions, lighting
- h) Vehicle movements, access and parking
- i) Risk of contamination or other hazards
- j) Effects on overland flow paths and/or water courses
- k) Land stability and ground conditions
- l) Technical constraints and operational considerations
- m) Safety and convenience of road users
- n) Appropriateness of activities within recreation zones

#### **14.6.1.2 General Assessment Criteria**

The Council shall assess applications using the following criteria;

- i) The nature of the locality in which the activity is located. This includes consideration of the streetscape of the area, the character of the coastal or rural environment, any significant landscape values of the area (including the natural form and character of visually prominent ridgelines and landforms), and the amenity values of the surrounding area.
- ii) Whether the design and external appearance of buildings and structures for network utilities are sympathetic to the character of the locality. This will include assessment of the extent to which the network utility dominates, or is overbearing in relation to adjacent activities.
- iii) Whether the proposed siting, landscape design, screening and site layout will internalise or mitigate the effects of the network utility to the site as far as practicable.
- iv) The effect on any significant views (as defined in Appendix 8F) will be avoided or mitigated, including those from the Coastal Marine Area.
- v) Whether the heritage values of any identified buildings or places would be adversely affected by the structure.
- vi) All adverse effects on amenity values of an area from potential nuisance factors including noise, vibration, odour, glare, dust, air emissions and lighting will be avoided, remedied or mitigated.

- vii) Whether the effects on the overland flowpath and/or watercourse are more than minor and whether the proposal may impede the flow of water in the 1% AEP Stormwater Event.
- viii) Whether the potential for contamination or hazards resulting from equipment failure, accidents or discharges have been addressed, including taking into account the nature of adjoining land use activities.
- ix) Whether it is technically, economically and practically reasonable to co-locate structures.
- x) The extent to which these criteria are constrained by operational or technical issues.
- xi) Whether structures located in the road reserve will be sited so that;
  - the potential for traffic and pedestrian safety problems is avoided and recommended clearance distances for pedestrian thoroughfare is preserved (as detailed in North Shore City Council's Infrastructure Design Standards). This assessment must take account of any likely proposed upgrading or improvements of the road
  - there is sufficient space in the road reserve for the planting and maintenance of street trees, the provision of lighting, street furniture, parking, and access to the road reserve
  - the area surrounding the structure can be easily maintained, particularly in the area between the structure and the site boundary
  - the structure, including any footings, will allow practical access to any existing in ground equipment or structure, and not occupy space above identified network utility corridors
  - the stability of any adjacent property will not be undermined by the installation of the structure.
- xii) For any activity that is proposed to take place on reserve land;
  - Whether the activity can readily be provided outside the reserve
  - Whether locating the network utility on recreation land is consistent with the objectives and policies of the relevant Recreation zone
  - The anticipated impact on the amenity of the reserve, including natural and recreational amenity
  - Whether the proposed location of the activity has potential to limit or prevent options for the development of the reserve in the future
  - Any potential interference with the public use and enjoyment of the reserve
  - Recognising that land zoned Recreation 1 possesses high natural amenity and is regarded as suitable for the location of network utilities only in unusual circumstances
  - Recognising that land in the road reserve that is zoned Recreation, especially in areas of natural amenity, provides a transition zone between the public open space and the carriageway.

## **14.6.2 Reservations and Assessment Criteria for Specific Controlled Activities**

### **14.6.2.1 Replacement of Electricity Transmission Towers**

The Council reserves control over the height, location and appearance of the replacement tower.

The Council shall assess applications for tower replacement in terms of any additional or changed effects using the following criteria;

- i) the extent to which alternatives to a proposed tower replacement siting have been evaluated and a comparison of each alternative undertaken, taking into account the operational efficiency and technical requirements of the network utility and the financial implications to the applicant.
- ii) the extent to which there are any significant mitigating factors or significant adverse effects that can be avoided or remedied with an alternative tower siting proposal.
- iii) the extent to which the streetscape of the area, the character of the coastal or rural environment, the significant landscape values of the area (including the natural form and character of visually prominent ridgelines and landforms), or the amenity values of surrounding properties or public spaces, would be affected.
- iv) the likely impacts on the security of North Shore's electricity supply in the event of the applicant proceeding or not proceeding with the principal alternative tower relocation proposal.
- v) the extent to which a pole structure or a tower of an alternative design or colour would have a lesser or greater environmental effect.
- vi) the extent to which the location of tower structures will have adverse effects on the safety of road users.
- vii) whether the location would have adverse effects on conservation, cultural or archaeological values.
- viii) whether there are native bush or wildlife habitats that could be adversely affected by the proposal.

#### **14.6.2.2 Gas Regulator Stations**

The Council reserves control over the matters specified in 14.6.1.1.

The Council shall assess applications for those gas regulator stations identified as Controlled activities in Table 14.1 using the criteria identified in 14.6.1.2, and the following:

- i) All such facilities shall be housed in a secure, enclosed building or compound and should be of a colour that will minimise the visual intrusiveness of the building.
- ii) The area surrounding the facility should be landscaped with the purpose of screening the facility from surrounding activities.

#### **14.6.2.3 Minor utility structures, public letterboxes and telecommunication kiosks within the road reserve**

The Council reserves control over the matters specified in 14.6.1.1 and the following;

- a) The necessity for the structure to locate in the road reserve, depending on the user that the structure will service
- b) Any proposed road alterations
- c) Whether the structure can be located underground

The Council shall assess applications for minor utility structures, public letterboxes and telecommunication kiosks within the road reserve identified as Controlled activities in Table 14.1 using the criteria identified in 14.6.1.2, and the following;

- i) Who the structure is designed to serve. Where the structure is designed to serve only one site it must not be located in the road reserve.

- ii) The proposed location of the equipment or structure in relation to any planned road widening, or vertical and / or horizontal realignment of the road.
- iii) Whether there are difficult ground conditions or technical constraints that make placement underground impracticable.
- iv) Whether the proposed location of the structure has been considered in relation to any existing structure already in the vicinity.

#### **14.6.2.4 Water Supply Reservoirs, Wastewater Storage Tanks and Pumping Stations**

The Council reserves control over the matters specified in 14.6.1.1.

The Council shall assess applications for Water Supply Reservoirs, Wastewater Storage Tanks and Pumping Stations identified as Controlled activities in Table 14.1 using the criteria identified in 14.6.1.2 and the following;

- i) Whether the structure will be located and designed to harmonise with the natural or built features of the area in which it is situated by one or more of the following means:
  - Undergrounding the structure
  - Partial or complete backfilling of reservoir walls
  - Screening using earth mounding and planting
  - Locating the reservoir so that it is not visible from a Residential or Recreation zone
- ii) Where the above treatments are not possible for hydraulic, topographical or other reasons, visual impacts will be avoided, remedied or mitigated through:
  - Appropriate screening and/or planting
  - Colour treatment to reduce visual dominance; or
  - Design modifications such as domed roofs where reservoirs are situated on hills

#### **14.6.2.5 Pipe Bridges**

The Council reserves control over the matters specified in 14.6.1.1 and also the location of pipe bridges in respect of the risk of failure.

The Council shall assess applications for Pipe Bridges identified as Controlled activities in Table 14.1 using the criteria identified in 14.6.1.2, and the risk of failure of the pipe bridge, including the risk of the footings of the pipe bridge, or the pipe bridge itself, being undermined by flooding.

#### **14.6.2.6 Antennas and Masts**

The Council reserves control over the matters specified in 14.6.1.1.

The Council shall assess applications for Antennas and Masts identified as Controlled activities in Table 14.1 using the criteria identified in 14.6.1.2 and the following:

- i) The extent to which any adverse visual effects of the mast or antenna can be avoided or mitigated by:
  - screening or landscaping
  - alternative siting
  - alternative colour or finish selection
  - re-configuration or design of antennas or other attachments to the mast
  - re-design of the mast shape or profile.

- ii) Where antennas are proposed to be sited on a building, the extent to which they can be designed, screened or sited so that they form an integral part of the total building design.
- iii) The extent to which the mast or antenna can be co-located with similar structures or other buildings to avoid, remedy or mitigate their visual impact, and the extent to which the potential for co-location has been addressed.

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## **14.7 Limited Discretionary Activities – Restrictions and Assessment Criteria**

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### **14.7.1 Restrictions and Assessment Criteria for Specific Limited Discretionary Activities**

Council may grant or refuse consent for Limited Discretionary activities, and if granted may impose conditions under Section 108 of the RMA. For the purpose of making these decisions Council has restricted the exercise of its discretion in respect of the activities identified below.

#### **14.7.1.1 Restrictions and Assessment criteria for minor utility structures**

The Council restricts its discretion to the matters identified in 14.6.2.3.

The Council shall assess applications for minor utility structures using the criteria identified in 14.6.2.3.

#### **14.7.1.2 Restrictions and Assessment criteria for public letterboxes and telecommunication kiosks**

The Council restricts its discretion to the matters identified in 14.6.1.1.

The Council shall assess applications for public letterboxes, postal holding boxes and telecommunication kiosks using the criteria identified in 14.6.1.2.

#### **14.7.1.3 Restrictions and Assessment criteria for above ground service/connection lines**

The Council restricts its discretion to the matters identified in 14.6.1.1.

The Council shall assess all applications for above ground service/connection lines using the criteria identified in 14.6.1.2 and the following;

- i) The adverse visual effect with respect to neighbouring dwellings primarily when viewed from habitable rooms should be avoided, remedied or mitigated.
- ii) Any potential for co-location, subject to technical limitations, should be pursued so as to minimise the number of structures.
- iii) The extent to which technical and physical constraints and their associated costs restrict the ability to underground the service/connection line.

#### **14.7.1.4 Restrictions and Assessment criteria for Replacement of Electricity Transmission Towers**

The Council restricts its discretion to the height, location and appearance of the replacement tower.

The Council shall assess applications for tower replacement using the criteria identified in 14.6.2.1.

#### **14.7.1.5 Restrictions and Assessment criteria for Pipe Bridges**

The Council restricts its discretion to the matters identified in 14.6.2.5 and to the following;

- The availability of alternative locations and options to a pipe bridge, and amenity effects.

The Council shall assess applications for pipe bridges using the criteria identified in 14.6.2.5 and the following;

- i) The suitability of alternative locations for the pipe bridge
- ii) The suitability of alternatives to a pipe bridge including locating the pipe bridge under the stream bed using trenchless technology, using other devices or possible re-routing to avoid the need for a bridge
- iii) The effect on the amenity of the surrounding area and the integration of the pipe bridge into the surrounding environment by the use of neutral colours, vegetation for screening, and the potential for co-location with existing or proposed bridges or other infrastructure.

#### **14.7.1.6 Restrictions and Assessment criteria for Aerials, Antennas and Masts**

The Council restricts its discretion to the matters identified in 14.6.2.6 and to the following;

- a) The maximum height of the mast, the area or diameter of any aerial or antenna, and the numbers of antennas or aerials attached to masts, buildings or streetlights

The Council shall assess all applications for aerials, antennas and masts using the criteria identified in 14.6.2.6 and the following;

- i) If the aerial, antenna or mast is likely to result in an adverse effect on the environment, whether the location and scale are appropriate having regard to alternative locations or other options.
- ii) Structures are discouraged on prominent ridgelines and hilltops. Where the proposed aerial, mast or antenna is so located and where significant adverse effects are likely, whether the aerial, antenna or mast can be placed elsewhere without a disproportionate loss in functionality. Where it is considered necessary that the proposed aerial, antenna or mast be located on a ridgeline or hilltop, Council encourages the co-location of network utilities to help reduce the effect on visual amenity.



## Part 2

The text that was amended at the time of notification is shown as underlined and deleted text as ~~strike through~~. Where text has been amended as a result of submissions it is shown as *italicised* as well. Some existing text is shown to place the changes in context.

### Section 1 – A Guide to Using the District Plan

#### Consequential amendment as follows - Section 1.3

##### 1.3 How to Use the District Plan

Table 1.2 provides guidance on the use of each section of the Plan.

Section	When Required
...	
14. <del>Public Works and Network Utilities and Designations</del>	Use to determine how infrastructure relating to network utilities and designations <del>public works and network utility operations</del> are provided for.
...	

### Section 3 – Procedures and General Rules

#### A Consequential amendment as follows - Section 3.10.1

##### 3.10.1 Rules for Permitted Activities

Section 14: ~~Public Works and Network Utilities and Designations~~

#### B Amend Section 3.10.7.1: General

##### 3.10.7.1 General

6 For any proposal to undertake an activity emitting radio-frequency fields or extremely low frequency electric and magnetic fields, the following reports are required:

a) prior to commencing any radio frequency emissions the following shall be sent to and received by the Manager of Consents: Environmental Services;

i) written notice of the location of the facility or proposed facility and

ii) a report prepared by a radio engineer/technician or physical scientist containing a prediction of whether the New Zealand Standard NZS 2772.1: 1999 Part 1 – Maximum Exposure Levels – 3kHz to 300GHz (New Zealand Standard) will be complied with.

If the report provided to the Council under condition (b) above predicts that emissions will exceed 25% of the exposure limit set for the general public in the New Zealand Standard, then, within 3 months of radio frequency emissions commencing, a report from the National Radiation Laboratory certifying compliance with the New Zealand Standard, based on measurements at the site will be provided to the Manager of Consents: Environmental Services.

The activities of any amateur radio operators are excluded from this reporting requirement.

b) For activities that propose to emit extremely low frequency electric and magnetic fields which will result in public exposure, a report prepared by an appropriately qualified person containing a prediction as to whether the guidelines specified by the International Commission on Non-Ionising Radiation Protection 1998 will be complied with.

**C Amend Appendix 3A: Schedule of Effects, as follows**

...

(1)(B)(k) Effect on public health and safety of any radio-frequency fields or electromagnetic radiation extremely low frequency electric and magnetic fields or from electromagnetic waves resulting which may be generated from an activity. Refer to Rule 14.5.1 for the standards used in North Shore City.

...

**Section 8 – Natural Environment**

**A Amend Section 8.4.1.1: Controlled Activities, as follows**

**8.4.1.1 Controlled Activities**

All buildings and structures in the Coastal Conservation area shall be Controlled activities, provided that:

a) for the Chelsea sugar refining industrial site the following are exempt from this requirement:

“Buildings and structures, including ‘accessory buildings’, wholly within the Special (Chelsea) Exemption Area, that are or will be an integral part of the sugar processing industry of the Chelsea Sugar Refinery (see Appendix 11D – Special (Chelsea) Coastal Conservation Control Exemption Area)”.

b) except for stormwater infrastructure, the following network utilities are exempt from this requirement:

- i) any underground network utility, and
- ii) any aboveground network utility that is located entirely within road reserve that is fully formed (but not including any part of the road reserve that is not fully formed).

The status of an activity may change according to controls in other sections of the Plan.

...

**B Consequential amendment as follows - Section 8.4.6.8: Conditions**

....

- Section 9 Subdivision and Development
- Section 14 ~~Public Works and~~ Network Utilities and Designations
- Section 16 Residential

...

**Section 9 – Subdivision and Development**

**A Add new item ‘d’) to Section 9.3.2: Wellbeing, Heath and Safety, as follows**

...

**Policies**

...

- c) Utility services that have sufficient capacity to absorb the effects of development and maintain human health and safety.
- d) Allotments that enable building platforms and other associated activities to achieve adequate separation distances from high voltage transmission lines.

....

**B Amend Section 9.4.1.1: Permitted Activities, as follows**

...

- b) Site works for underground network utilities located within the road reserve, except for in the Foreshore Yard. In the Foreshore Yard site works for underground network utilities are permitted only in areas of road reserve under or immediately adjacent to the carriageway, or for which a resource consent has been obtained, or to which existing use rights apply, or which are Permitted activities in accordance with Section 14 – Network Utilities and Designations and the provisions of this Plan.
- c) Site works for above ground network utilities located in the road reserve for which a resource consent has been obtained, or to which existing use rights apply, or which are Permitted activities in accordance with Section 14 – ~~Public Works &~~ Network Utilities and Designations and the provisions of this Plan.
- d) Site works for the provision, maintenance or repair of roading located in the road reserve.
- e) Excavations, except in the foreshore yard, no greater than:
  - 1.5 metres in depth, or
  - 3 metres in depth for the installation and maintenance of underground network utilities,

as measured by the vertical distance from the top to the bottom of the excavation.

~~Excavations no greater than 1.5 metres in depth (measured by the vertical distance from the top to the bottom of the excavation), except in the foreshore yard.~~

...

**C Add new item 'q)' to Section 9.4.1.3: Limited Discretionary Activities, as follows**

...

- v) Subdivision in the 2A Chelsea Special zone that is demarcated within, and in accordance with, an 'approved integrated development scheme'.
- q) Subdivision creating an allotment that lies within 25 metres of high voltage transmission lines, as measured from the centreline at ground level.

....

**D Amend Section 9.4.4.2: Building Platforms, as follows**

- a) The location of the building platform shall:
  - i) avoid creating an impediment to the 1% AEP flow; and
  - ii) provide a minimum of 500mm freeboard above the 1% flood level if for a habitable building; and
  - iii) ensure that subsequent permitted development could comply with yard, access, arterial setbacks, building line restrictions, NZEC 34:2001, and
- b) For the purposes of Rule 9.6.1 a suitable platform shall:
  - i) Meet the standards of 9.4.4.2(a); and
  - ii) Have regard to the adopted NSCC engineering/infrastructure standards as then current.

- iii) Comply with the specific foundation design requirements determined by a registered engineer experienced in soil mechanics (or other similarly qualified and experienced person).

**Explanation and Reasons**

*The need to identify an area suitable for the construction of a building on each lot ensures that the design of the subdivision takes account of the particular characteristics of the land in the layout of the lots. It also enables the Council to be satisfied that a suitable building area can be provided, in accordance with the requirements of the zone in which the land is located, prior to any approval of the subdivision.*

*The location of building platforms in the 1% AEP flood plain creates problems for the property owner, downstream properties and receiving environments, and therefore all effort to avoid buildings in the flood plain should be taken. It is expected that in determining an appropriate building platform consideration be given to any current adopted NSCC engineering/infrastructure standards.*

**Note:**

~~The location of building platforms may be influenced by the location of electricity supply lines. The owner of any such lines should be consulted by the subdivider or developer regarding separation distances and similar requirements.~~

....

**E Add new item '18' to Section 9.5.2: Restrictions - Limited Discretionary Activity, as follows**

...

17. Site works within the secondary flow path or 1% AEP flood plain.

18. In accordance with 9.4.1.3 v), where subdivision proposes to create an allotment that lies within 25 metres of a high voltage transmission line:

- i) the extent to which compliance with NZECP 34:2001 will be achieved, and
- ii) the location and probable future height of any associated tree planting, and
- iii) the extent of proposed earthworks in and around the line and support structures of the high voltage transmission lines
- iv) retention of emergency and maintenance access

...

**F Add new item '9.7.2.12: Subdivision in the vicinity of High Voltage Transmission Lines', as follows**

...

**9.7.2.12 Subdivision in the vicinity of High Voltage Transmission Lines**

In addition to the general assessment criteria in Rule 9.7.1.1, the Council shall assess any proposal to create an allotment that lies within 25 metres of high voltage transmission lines against the following;

- i) The extent of compliance with NZECP 34:2001 and the potential effects on users or occupiers of land
- ii) Location of building platforms and whether there are alternative building platforms available
- iii) The nature and location of any proposed earthworks and/or vegetation to be planted in the vicinity of transmission lines.
- iv) The ability of the line owner to retain access to the high voltage transmission line for inspections and maintenance and emergency purposes

...

**Section 11 – Cultural Heritage**

**Consequential amendment as follows – Section 11.3.1 Buildings, Objects and Places of Heritage Significance**

**Explanation and Reasons**

...

Any heritage orders applying within North Shore City are scheduled in Appendix 11D: Schedule of Heritage Orders, and in Section 14: Public Works and Network Utilities and Designations.

...

**Section 16 – Residential**

**Amend Section 16.6.1.5A: Foreshore Yard, as follows**

...

AND

In those areas where Appendix 21E specifies that a foreshore yard reference line is to be applied, for the foreshore yard area between Mean High Water Springs and the foreshore yard reference line, 'building' means any structure and includes any decks, terraces, steps, fences, retaining walls and coastal protection measures.

Provided that:

For the purposes of the foreshore yard and excluding stormwater infrastructure, 'building' does not include underground network utilities where they are located entirely within road reserve that is fully formed (but not including any part of the road reserve that is not fully formed), provided they are Permitted or Controlled activities in Section 14 of the Plan.

**Control Flexibility**

...

*Note:*

The foreshore yard overlays any reserves or roads along the same section of coastline. Where the foreshore yard width is less than the width of a reserve or road at the same site, the adjoining property inland of the reserve has to comply with the rear or side yard requirements in order to separate development from the reserve or road. Where the foreshore yard is wider than a reserve or road, the yard extends past the reserve and on to the adjoining property. Where the foreshore yard overlays another yard, it replaces that yard. If a coastal boundary is not parallel to the coast and the foreshore yard only applies to part of the boundary, the rear or side yard applies to the remainder of the boundary.

Excluding stormwater infrastructure, the Foreshore Yard does not apply to underground network utilities where they are located within road reserve that is fully formed (but not including any part of the road reserve that is not fully formed), provided that they are Permitted or Controlled activities in Section 14 of the Plan. Areas of the road reserve where there is no formed carriageway, such as areas near the coast where the carriageway ceases but the road reserve continues to the coastal edge, are still subject to the Foreshore Yard. Network utilities are also required to comply with any siteworks controls in Section 9 of the Plan.

**Explanation**

*The foreshore yard is required to protect the natural character of the coastal environment. The foreshore yard ensures that buildings are set back from the coastline, do not dominate the coastal landscape, adversely affect coastal ecological features, or are likely to contribute to coastal erosion. Assessment criteria have been set to ensure that where limited development is provided for within the foreshore yard, it does not affect the environmental qualities of the coast. Greater restriction is placed on certain beach areas and walkways because of the importance of retaining the natural character and landform of these areas, and the pressure they are under from coastal development. This approach reflects the emphasis of the RMA on protecting the coastal environment and generally held public opinions that beaches should be free of structures. Foreshore yard controls are not limited to those structures above ground but include underground structures because they may become exposed in the future due to erosion processes.*

Where network utilities are located underground in the road reserve and under or immediately adjacent to the carriageway, the foreshore yard rule does not apply. This is because these areas are already heavily modified so there seems little point in applying the rule. In some areas of the foreshore yard however, there are areas in the road reserve (such as those immediately adjacent to the Coastal Marine Area) where the carriageway is unformed. In these areas the foreshore yard rule does apply as they are often clear of structures and possess some of the original natural character of the coastal environment.

...

## **Section 21 – Definitions**

### **Amend definitions as follows**

#### **Activity emitting radio frequency fields**

Means an activity or equipment which is capable of transmitting or emitting electromagnetic energy for communication purposes with frequencies in the range of 3 KHz to 300 GHz but excluding

- a) common residential based radiofrequency devices such as baby monitors, radio controlled toys, electronic door openers, cell phones, and mobile phones; and
- b) hand held amateur radio transceivers operating on the amateur UHF and VHF bands.

#### **Aerial**

means the yagi or whip type device that is part of a radio communication facility or telecommunication facility that is used or intended for transmission or reception including the aerial mountings but not any supporting mast. This definition excludes any antenna.

#### **Antenna**

means any device including any dish or panel, excluding aerials, that receives or transmits radio communication or telecommunication signals. This includes the antenna's mountings (including any support structure or head arrangement such as shrouds or antenna covers) and radio frequency unit or similar device, but excludes any mast. The diameter or area of an antenna means:

- In relation to any panel antenna or any other type of antenna that has a length and a width, the area measured by calculating the largest surface area;
- In relation to any other antenna, the diameter measured by taking the cross-section of the widest part of the antenna;

The mountings of any antenna and any radio frequency equipment or similar device is not included in the measurement of area or diameter of each antenna, provided that the radiofrequency unit or similar device is smaller in area or diameter than the antenna itself. (Note: any antenna only need meet the area or diameter measurement, as appropriate to the type of antenna, and the measurement is of each individual antenna and is not a cumulative measurement.)

#### **Electric (or Electricity) Line or Lines**

Means an electric line as defined in the Electricity Regulations 1993.

#### **Electric (or Electricity) Line or Lines**

means all conductors (including fittings supporting, or connected to, those conductors), whether above or below ground, that are used, or intended to be used, in, or in connection with, the supply of electricity from the outgoing terminals of a generating station, a building, enclosure, or other structure to—

- (a) the incoming terminals of any other building, enclosure, or other structure; or
- (b) an electrical appliance, in any case where the electrical appliance is supplied with electricity other than from a terminal in a building, enclosure, or other structure.

#### **High pressure gas line**

Any gas line with the capacity to operate at a gauge pressure of more than 2000 kilopascals.

**High voltage transmission line**

Means an electric line of 110 kV or greater.

**Maintenance**

Means the protective care of a resource.

**Mast**

Means any pole, tower or similar structure designed to carry aerials or antenna to facilitate telecommunications, radio-communications and broadcasting and which is fixed to the ground (and not on a building or structure). *This definition excludes 'private pole aerials' contained in 14.5.3.1.3.*

**Minor utility structure**

Means any above ground box like structure or cabinet associated with a network utility or that receives or transmits to or from any part of a network utility. It does not include electric or telecommunication lines, aerials, antennas, masts, transport equipment, street furniture, bus shelters, public letterboxes, postal holding boxes or telecommunication kiosks.

**Network Utility**

Means the same as Network Utility Operation.

**Network Utility Operation/Operator**

These have the same meaning as in section 166 of the RMA.

**Network utilities**

means those works undertaken by network utility operators as defined in Section 166 of the Act and for the purpose of the District Plan also includes:

- a) navigation and survey aids, beacons and meteorological activities
- b) services reticulation networks of local authorities
- c) all structures necessary for the operation of the network utility
- d) privately owned aerials and antennas; and
- e) the operation and maintenance of the network utility.

**NZEC 34:2001**

Means the New Zealand Electrical Code of Practice for Electrical Safe Distances 2001.

**Postal Holding Boxes**

Means any receptacle provided by a postal operator (as defined in the Postal Services Act 1998) for the purpose of storing postal articles temporarily, and which are not used by the public.

**Public Letterbox**

Has the same meaning as in S2 of the Postal Services Act 1998 - any receptacle that is provided by a postal operator for the purpose of receipt of postal articles for conveyance by that postal operator.

**Radio Communication**

Has the same meaning as in the Section 2(1) of the Telecommunications Act 1987

means any transmission, emission or reception of signs, signals, writing, images, sounds or intelligence of any nature by electromagnetic waves of frequencies between 9 kilohertz (kHz) and 3000 gigahertz (GHz), propagated in space without artificial guide.

**Service/Connection Lines**

Means any line that connects a network utility to the end user.

**Telecommunication**

Has the same meaning as in the Section 2(1) of the Telecommunications Act 1987

means the conveyance by electromagnetic means from one device to another of any sign, signal, impulse, writing, image, sound, instruction, information, or intelligence of any nature.

**Telecommunication kiosk**

Means any structure intended for public use to facilitate telecommunication and includes boxes or booths for telephone, video or internet services.

**Telecommunication line**

Means the same as 'line' in the Telecommunications Act 2001.

**Transport Equipment**

Street lights, traffic lights and traffic control structures, road signage, traffic and pedestrian monitoring cameras, parking control devices and real time passenger information displays.

**Upgrading**

~~Upgrading of existing network utilities means the maintenance, replacement or increase in carrying capacity utilising the existing or similar structure or structures, provided that the effect of the upgrade is of the same or similar character, intensity and scale to that which is being upgraded.~~

**Water supply reservoir**

Means a reservoir of water intended for community supply and does not include private raintanks.



## Attachment 2

The following Table 1 matches the submission number identified in the body of this report with the groups of people who made the submission.

For the details of individuals in Groups 1-4A, see Tables 2-6.

For details of the further submission group, see Table 7.

**Table 1**

Submission Number	Groups making each submission				
<b>A1</b>	Group 1	Group 2	Dr JM VanSchalkwyk - 66/3	Group 4	
<b>A2</b>	Group 1	Group 2			Peter Smith - 26/10
<b>A3</b>	Group 1	Group 2			Peter Smith - 26/11
<b>A4</b>	Group 1	Group 2			Peter Smith - 26/12
<b>A5</b>	Group 1	Group 2			Peter Smith - 26/13
<b>A6</b>	Group 1	Group 2			Peter Smith - 26/14
<b>A7</b>	Group 1	Group 2			Peter Smith - 26/15
<b>A8</b>	Group 1	Group 2			Peter Smith - 26/16
<b>A9</b>	Group 1	Group 2			Peter Smith - 26/17
<b>A10</b>	Group 1	Group 2			Peter Smith - 26/18
<b>A11</b>	Group 1	Group 2			Peter Smith - 26/19
<b>A12</b>	Group 1	Group 2			Peter Smith - 26/20
<b>A13</b>	Group 1		Group 3		Peter Smith - 26/21
<b>A14</b>	Group 1		Group 3		Peter Smith - 26/22
<b>A15</b>	Group 1		Group 3		Peter Smith - 26/23
<b>A16</b>	Group 1		Group 3		Peter Smith - 26/24
<b>A17</b>	Group 1		Group 3		Peter Smith - 26/25
<b>A18</b>	Group 1		Group 3		Peter Smith - 26/26
<b>A19</b>	Group 1		Group 3		Peter Smith - 26/27
<b>A20</b>	Group 1		Group 3		Peter Smith - 26/28
<b>A21</b>	Group 1		Group 3		Peter Smith - 26/29
<b>A22</b>	Group 1		Group 3		Peter Smith - 26/30
<b>A23</b>	Group 1		Group 3		Peter Smith - 26/31
<b>A24</b>	Group 1		Group 3		Peter Smith - 26/32
<b>A25</b>	Group 1		Group 3		Peter Smith - 26/33
<b>A26</b>	Group 1		Group 3		Peter Smith - 26/34
<b>A27</b>	Group 1		Group 3		Peter Smith - 26/35
<b>A28</b>	Group 1		Group 3		Peter Smith - 26/36
<b>A29</b>	Group 1		Group 3		Peter Smith - 26/37
<b>A30</b>	Group 1		Group 3		Peter Smith - 26/38
<b>A31</b>	Group 1		Group 3		Peter Smith - 26/39
<b>A32</b>	Group 1		Group 3		Peter Smith - 26/40
<b>A33</b>	Group 1		Group 3		Peter Smith - 26/41
<b>A34</b>	Group 1		Group 3		Peter Smith - 26/42
<b>A35</b>	Group 1		Group 3		Peter Smith - 26/43
<b>A36</b>	Group 1		Group 3		Peter Smith - 26/44
<b>A37</b>	Group 1		Group 3		Peter Smith - 26/45
<b>A38</b>	Group 1		Group 3		Peter Smith - 26/46
<b>A39</b>	Group 1		Group 3		Peter Smith - 26/47

Submission Number	Groups making each submission				
A40	Group 1		Group 3		Peter Smith - 26/48
A41	Group 1		Group 3		Peter Smith - 26/49
A42	Group 1		Group 3		Peter Smith - 26/50
A43	Group 1		Group 3		Peter Smith - 26/51
A44	Group 1		Group 3		Peter Smith - 26/52
A45	Group 1		Group 3		Peter Smith - 26/53
A46	Group 1		Group 3		Peter Smith - 26/54
A47	Group 1		Group 3		Peter Smith - 26/55
A48	Group 1		Group 3		Peter Smith - 26/56
A49	Group 1		Group 3		Peter Smith - 26/57
A50	Group 1		Group 3		Peter Smith - 26/58
A51	Group 1		Group 3		Peter Smith - 26/59
A52	Group 1		Group 3		Peter Smith - 26/60
A53	Group 1		Group 3		Peter Smith - 26/61
A54				Group 4A	
A55			Dr JM VanSchalkwyk - 66/2	Group 4A	

**Table 2 - Group 1**

Submitter	Submission No	Part
James Bazsika	3	1-53
A J Tapp	30	1-53
Maurice Bowman	45	1-53
D N Ellis	48	1-53
Phillip King	52	1-53
Peter B Lake	53	1-53
Neil Walter Prebble	57	1-53
Dennis Thornton	64	1-53
David Wilkins	67	1-53
J Wolf	68	1-53
David Anthony Arnet	70	1-53
R R Arnold	71	1-53
R Badcock	72	1-53
David L Balluntyne	73	1-53
Stanley Barnes	74	1-53
Roger W Barraud	75	1-53
Graham Beagley	76	1-53
James William Kenneth Begg	77	1-53
N W Blackburn	78	1-53
David J Blackett	79	1-53
Pamela Blackett	80	1-53
Ralph Frederick Boshier	81	1-53
Rosemary Boshier	82	1-53
Leo Boyle	83	1-53
Dr Charles Bradfield	84	1-53
Sylvia Joy Bradfield	85	1-53
G B Bramwell	86	1-53
R A Brown	87	1-53

Howard Buxton	88	1-53
Roger Cadness	89	1-53
Jansen Cardy	90	1-53
Tony Case	91	1-53
Peter Leonard Cawte	92	1-53
Charlie Chen	93	1-53
K J Coates	94	1-53
Robert Stanley Cole	95	1-53
John Collin	96	1-53
Geoffrey Cooke	97	1-53
Mark Corrigan	98	1-53
Tania Corrigan	99	1-53
Peter Crowhurst	100	1-53
David Crozier	101	1-53
Michael Cumin	102	1-53
Clive Curtis	103	1-53
Joseph Steven Alexander Dale	104	1-53
Leonard John Dawe	105	1-53
E K Dawson	106	1-53
Robert John deBurgh	107	1-53
Peter Dekker	108	1-53
Ronald de Koning	109	1-53
E I Deverick	110	1-53
John Alex Devenport	111	1-53
Keith Dix	112	1-53
Kenneth Duncan	113	1-53
John R Dunn	114	1-53
John Sinclair Duske	115	1-53
Neill Martin Ellis	116	1-53
James Michael Elvy	117	1-53
John Elvy	118	1-53
Nicholas Emery	119	1-53
Heinrich Falkner	120	1-53
I G Fletcher	121	1-53
Mark Foster	122	1-53
Ann Fraser	123	1-53
David Fraser	124	1-53
J C Freeman	125	1-53
Brian S Fryer	126	1-53
George F George	127	1-53
Francis Giles	128	1-53
Geoffrey Herbert Gillman	129	1-53
Randall Quinton Goldfinch	130	1-53
Nigel Goldstone	131	1-53
Alwyn Goodenough	132	1-53
Jacqueline Goodenough	133	1-53
Robert Grayson	134	1-53
Wayne Griffin	135	1-53
Warren Harris	136	1-53
Neil Graham Harsant	137	1-53
Stephen Ronald Hayman	138	1-53
John Hirtzel	139	1-53

Tim Holden	140	1-53
H R Holtz	141	1-53
Blair Jackson	142	1-53
JFC Johnson	143	1-53
W F Jopling	144	1-53
Donald Henry Joseph	145	1-53
James John Lamberton	146	1-53
Colin Lee	147	1-53
Jung Sik Lee	148	1-53
Helen I Leinwand	149	1-53
Robert Leinwand	150	1-53
P J Lovegrove	151	1-53
W David MacClement	152	1-53
Colin David Mackay	153	1-53
George Mathew	154	1-53
James Francis Matthews	155	1-53
William McCafferty	156	1-53
Ian McCaw	157	1-53
Ken McCormack	158	1-53
Karen McGlone	159	1-53
Grant McGregor	160	1-53
Philip McHugh	161	1-53
Bruce McPike	162	1-53
James Alexander Meachen	163	1-53
Callum Roy Moates	164	1-53
Donald Moore	165	1-53
James Moore	166	1-53
Peter John Moore	167	1-53
Giovanni Moretti	168	1-53
Peter Mott	169	1-53
J Muller	170	1-53
Peter Scott Neill	171	1-53
M D Newman	172	1-53
(NZ Ass of RT) William Leonard Bruce Douglas	173	1-53
David O'Brien	174	1-53
Eric William Ockleston	175	1-53
I W Ogier	176	1-53
William John Olsen	177	1-53
James Paltridge	178	1-53
R J Parkinson	179	1-53
Paul M Penberthy	180	1-53
Gavin Petrie	181	1-53
Peter Pohl	182	1-53
John Frederick Powell	183	1-53
James Charles Pye	184	1-53
James Thorpe Pye	185	1-53
Nawzad Raghیب	186	1-53
Lee Rapson	187	1-53
John M Reinke	188	1-53
Bill Richardson	189	1-53
D A R Rogan	190	1-53
BW Rous	191	1-53

James Percival Rowe	192	1-53
Peter Sandlant	193	1-53
Bryan C Sando	194	1-53
J M Seakins	195	1-53
Vernon C A Sears	196	1-53
Jasper Robert Sewell	197	1-53
I M Sexton	198	1-53
Michael John Sheffield	199	1-53
E R Shepherd	200	1-53
Shelley Smithson	201	1-53
Donald Gordon Spackman	202	1-53
Derek Stansfield	203	1-53
Bruce Steel	204	1-53
Colin Stephens	205	1-53
Neil Bradman	206	1-53
Petr Sykora	207	1-53
R L Sylvester	208	1-53
Leo I Taillie	209	1-53
Robert Thompson	210	1-53
Graeme James Trim	211	1-53
Richard Ussher	212	1-53
S B Vial	213	1-53
Mark Wallis	214	1-53
B A Warner	215	1-53
Robert John Waters	216	1-53
I Watson	217	1-53
S J White	218	1-53
John Nicholas Wigley	219	1-53
David JH Wilkins	220	1-53
Richard Neill Wilkinson	221	1-53
Ronald James Willcocks	222	1-53
David Stewart Williams	223	1-53
D A Wilson	224	1-53
Ian Wilson	225	1-53
Mark Windram	226	1-53
Kenneth Windsor	227	1-53
MK Woodfield	228	1-53

**Table 3 - Group 2**

Submitter	Submission No	Part
T G Borman	44	1-12
Rory Deans	46	1-12
R N Miller	55	1-12

**Table 4 - Group 3**

Submitter	Submission No	Part
Dr Johan Michael VanSchalkwyk	66	4-44
North Shore Civil Defence Emergency Management	22	2-42

**Table 5 - Group 4**

<b>Submitter</b>	<b>Submission No</b>	<b>Part</b>
Ian T Ashley	42	3
Samuel John Ashton	43	3
G Humphrey	49	3
Dave Johnston	50	3
David Karrasch	51	3
Noel Orr	56	3
Geoffrey Reed	58	3
S J Rowe	59	3
John Shaw	61	3
Warren Stirling	62	3
Graham Street	63	3
David Valois	65	3
Vaughan Henderson	15	4

**Table 6 - Group 4A**

<b>Submitter</b>	<b>Submission No</b>	<b>Part</b>
Ian T Ashley	42	1-2
Samuel John Ashton	43	1-2
G Humphrey	49	1-2
Dave Johnston	50	1-2
David Karrasch	51	1-2
Noel Orr	56	1-2
Geoffrey Reed	58	1-2
S J Rowe	59	1-2
John Shaw	61	1-2
Warren Stirling	62	1-2
Graham Street	63	1-2
David Valois	65	1-2
Vaughan Henderson	15	2-3

**Table 7 – Further Submitter Group**

The following individuals are part of the pro forma “FS Group” that have supported submission numbers 20/1 to 20/15 by way of further submission.

<b>Submitter Name</b>	<b>Submission number</b>	<b>Further Submission number</b>
John Andrews	20/1 – 20/15	614 – 622, 727-732
David Anthony Arnet	20/1 – 20/15	73 – 81, 733 - 738
Stanley Barnes	20/1 – 20/15	623 – 631, 739 – 744
Graham Barton	20/1 – 20/15	366 – 374, 1033 – 1038
John F G Bell	20/1 – 20/15	19 – 27, 925 - 930
Christopher Billing	20/1 – 20/15	100 – 108, 967 - 972
Ralph Frederick Boshier	20/1 – 20/15	348 – 356, 745 – 750
Rosemary Boshier	20/1 – 20/15	357 – 365, 751 – 756
Maurice Bowman	20/1 – 20/15	28 – 36, 757 – 762
Harold A Boyd	20/1 – 20/15	393 – 401, 1045 – 1050
R A Brown	20/1 – 20/15	503 – 511, 763 – 768

Tony Case	20/1 – 20/15	156 – 164, 769 – 774
Robert Stanley Cole	20/1 – 20/15	578 – 586, 775 – 780
Andrew Cooke	20/1 – 20/15	127 – 135, 985 - 990
Hugh Gordon Cooper	20/1 – 20/15	512 – 520, 1057 – 1062
Rory Deans	20/1 – 20/15	165 – 173, 781 - 786
Robert John deBurgh	20/1 – 20/15	650 – 658, 787 – 792
P W Dent	20/1 – 20/15	1 – 9, 919 – 924
Heinrich Falkner	20/1 – 20/15	10 – 18, 793 – 798
J C Freeman	20/1 – 20/15	476 – 484, 799 – 804
Geoff and Bev Gillman	20/1 – 20/15	596 – 604, 1087 – 1092
Nigel Goldstone	20/1 – 20/15	542 – 550, 805 – 810
Liana Goodall	20/1 – 20/15	136 – 144, 991 – 996
Warren Harris	20/1 – 20/15	330 – 338, 811 – 816
Brian Heywood	20/1 – 20/15	467 – 475, 817 - 822
Colin Hulse	20/1 – 20/15	605 – 613, 175 – 1080
JFC Johnson	20/1 – 20/15	209 – 217, 823 – 828
Alfred George Kennedy	20/1 – 20/15	82 – 90, 955 – 960
Jeff King	20/1 – 20/15	46 – 54, 937 – 942
Phillip King	20/1 – 20/15	402 – 410, 829 – 934
David G King	20/1 – 20/15	533 – 541, 1063 – 1068
A N Marsden	20/1 – 20/15	91 – 100, 961 – 966
Mathew Thomas Mawston	20/1 – 20/15	201 – 210, 1009 – 1014
K McVie	20/1 – 20/15	384 – 394, 1039 – 1044
James Alexander Meachen	20/1 – 20/15	569 – 577, 835 – 840
Leslie R Mellars	20/1 – 20/15	55 – 63, 943 – 948
Charles Malcolm George Moates	20/1 – 20/15	37- 45, 931 – 936
Peter John Moore	20/1 – 20/15	183 – 191, 841 - 846
Vern Morris	20/1 – 20/15	64 – 72, 949 – 954
Cameron Neill Mumford	20/1 – 20/15	411 – 420, 1051 – 1056
William Leonard Bruce Douglas	20/1 – 20/15	560 – 569, 847 – 852
W O'Brien	20/1 – 20/15	218 – 226, 1015 – 1020
Paul M Penberthy	20/1 – 20/15	227- 235, 853 – 858
Peter Pohl	20/1 – 20/15	587 – 595, 859 – 864
Neil Walter Prebble	20/1 – 20/15	320 – 329, 865 – 870
James Charles Pye	20/1 – 20/15	430 – 439 – 871 – 876
James Percival Rowe	20/1 – 20/15	375 – 373, 877 – 882
J M Seakins	20/1 – 20/15	494 – 502, 883 – 888
Jasper Robert Sewell	20/1 – 20/15	632 – 640, 889 – 894
I M Sexton	20/1 – 20/15	485 – 483, 895 – 900
Roger Smith	20/1 – 20/15	109 – 117, 973 – 978
P L Smith	20/1 – 20/15	551 – 560, 1069 – 1074
Derek Stansfield	20/1 – 20/15	147 – 155, 901 – 906
Colin Stephens	20/1 – 20/15	420 – 428, 907 – 912
John Stuart	20/1 – 20/15	339 – 347, 1027 – 1032
Tony Terezow	20/1 – 20/15	302 – 310, 1021 – 1026
D Wadham	20/1 – 20/15	118 – 126, 979 – 984
Dr John R L Walker	20/1 – 20/15	641 – 649, 1081 – 1086

Jason Wallace	20/1 – 20/15	192 – 200, 1003 – 1008
Barry J Ward	20/1 – 20/15	174 – 182, 997 – 1002
Robert John Waters	20/1 – 20/15	311 – 319, 913 – 918
J Sutton Burtenshaw	20/1 – 20/15	1146 - 1160



## Network Utilities and Designations

### Submitters Numbers, Names and Addresses and Summary of Relief Sought

Submitter	John Andrews
	68 Khandallah Rd, Wellington
69-1	Change the proposed rules covering the radio amateur service to provide the ability to function under the terms and conditions of the licenses issued by the MED, Radio Spectrum Management
69-2	Oppose the proposed plan change generally as it fails to accommodate as permitted uses the reasonable requirements of amateur radio operators and the amateur radio service, through excessive limitations on the height, location and numbers of radio antennas and aerials and their supporting structures.
69-3	Amend the proposed plan change to allow, as permitted uses, antennas erected at proper height and dimensions and in sufficient number for communications effectiveness and experimentation and otherwise that will reasonably accommodate amateur radio service communications.
69-4	Amend the proposed plan change to remove the requirement for licensed amateur radio operators to have their radio frequency emissions subjected to monitoring and to be charged a fee for this monitoring.
69-5	Permit the use of pole structures not exceeding 80mm in diameter to be used for supporting aerials and antenna
69-6	Increase the height limits for amateur aerial and antenna supporting structures to 18 metres
69-7	Allow the height of antennas mounted on buildings to be no less than for antennas on other supporting structures
69-8	Remove the application of height control planes to amateur antennas and their supporting structures
69-9	Reduce the setbacks of simple pole structures to 0.5 metres on all boundaries and for mast structures to 1.5 metres
69-10	Allow amateur communication satellite dishes up to 4 metres in diameter
69-11	No limitation on numbers of amateur antennas and their supporting structures.
69-12	Incorporate the following wording: The requirement for mandatory random field testing shall not apply to the holder of an amateur radio license'.
69-13	Oppose 14.1 and in particular the inclusion of privately owned aerials and antennas in 'telecommunication networks'
69-14	Oppose Policy 14.3.2.9 as it encourages locating aerials on buildings as opposed to masts
69-15	Oppose Policy 14.3.2.11 as it tries to control the design and siting of equipment emitting radiofrequency radiation
69-16	Oppose Rule 14.4.2 as it sets out controls on network utilities
69-17	Oppose rules in Activity Table 14.1 that attempts to control radiofrequency fields emitted by activities
69-18	Oppose rules in Activity Table 14.1 that attempts to control aerials
69-19	Oppose rules in Activity Table 14.1 that attempt to control antennas
69-20	Oppose rules in Activity Table 14.1 that attempt to control masts
69-21	Oppose Rule 14.5.1.1 that requires report for activity emitting radio frequency fields or extremely low frequency electric and magnetic fields
69-22	Oppose the application of Rule 14.5.1.2 (requiring radiofrequency fields to comply with NZS 2772.1)
69-23	Oppose Rule 14.5.1.2(b)(i) (requiring independent monitoring of radio frequency fields)
69-24	Oppose Rule 14.5.1.2(b)(ii) (monitoring will take place at the applicant's cost)
69-25	Oppose Rule 14.5.1.2(b)(iii) (numbers of network utility operator's sites subject to monitoring)
69-26	Oppose Rule 14.5.1.3 (compliance of electric and magnetic fields with ICNIRP guidelines 1998)
69-27	Oppose 14.5.2.2 (requiring landscaping or screening of above ground structures)
69-28	Oppose 14.5.2.4 (all structures higher than 1.8m to comply with development controls)
69-29	Oppose 14.5.3.1.1i) (aerials no higher than 3m above attachment)
69-30	Oppose 14.5.3.1.1ii) (only two aerials per residential unit)
69-31	Oppose 14.5.3.1.1iii) (dimensions of aerials to be less than 3m)
69-32	Oppose 14.5.3.1.2i) (only one aerial per mast permitted)
69-33	Oppose 14.5.3.1.2ii) (dimensions of aerial to be 1m when attached to a mast)
69-34	Oppose 14.5.3.2.1a)i) (antenna not exceed point of attachment by more than 2 m)
69-35	Oppose 14.5.3.2.1a)ii) (no more than 2 antennas per residential unit)
69-36	Oppose 14.5.3.2.1a)iii) (no antennas closer than 1 m to boundary)
69-37	Oppose 14.5.3.2.1b)i) (antenna placement)
69-38	Oppose 14.5.3.2.1b)ii) (visibility of antenna)
69-39	Oppose 14.5.3.2.2a)i) (antennas in rural zones not greater than 3m above roof)
69-40	Oppose 14.5.3.2.2a)ii) (no more than one antenna attached to façade)
69-41	Oppose 14.5.3.2.2a)iii) (antennas subject to yard controls)
69-42	Oppose 14.5.3.2.2b)i) (antenna located below peak of roofline)
69-43	Oppose 14.5.3.2.2b)ii) (antenna should not be on front façade)
69-44	Oppose 14.5.3.3 (limits on height of masts)
69-45	Oppose 14.6.2.6 (reservation of control over matters to do with antennas and masts)
69-46	Oppose 14.7.1.6 (regarding aerial height, appearance and location on ridgelines)
69-47	Oppose 3.10.7.1 6 (requirement to furnish report regarding radiofrequency fields when activity proposed)
69-48	Oppose definition of 'Activity emitting radio frequency fields'

- 69-49 Oppose definition of 'Aerial' and the limitation of diameter of aerial to 80mm
- 69-50 Oppose definition of 'Antenna'
- 69-51 Oppose definition of 'Mast'
- 69-52 Oppose definition of 'Radio Communication'
- 69-53 Oppose definition of 'Network Utility' and inclusion of privately owned aerials and antennas

**Submitter** Michelle Androu

47A Aramoana Ave, Devonport North Shore City

- 1-1 Oppose the Plan change in respect of cell phone sites as cell sites are unsightly and have negative health effects.

**Further Submissions**

**Oppose**

1-1x441 Broadcast Communications Ltd P O Box 137, Taupo,

**Support**

1-1x145 Sally Elton 15 Second Ave, Devonport, Auckland,

- 1-2 Amend the Plan change to ensure that a continuing dialogue with affected residents occurs for every cell site that any company wishes to install.

**Further Submissions**

**Support**

1-2x146 Sally Elton 15 Second Ave, Devonport, Auckland,

**Submitter** David Anthony Arnet

66 Fitzwilliam Dr, Torbay North Shore City

- 70-1 to 53 See submission 69-1 to 53

**Submitter** R R Arnold North Shore Amateur Radio Club

21 Seaview Rd, Milford 0620 North Shore City

- 71-1 to 53 See submission 69-1 to 53

**Submitter** Ian T Ashley

894 Ponga Road, Rd 4 Papakura 2585

- 42-1 Change the proposed controls on Radio Amateur aerials, antennas and masts
- 42-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1
- 42-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** Samuel John Ashton Branch 18 NZART

20 T Tzherbent Rd, Wainuiomata Lower Hutt

- 43-1 Change the proposed controls on Radio Amateur aerials, antennas and masts
- 43-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1
- 43-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** R Badcock

65 Paul Matthews Rd, Albany North Shore City

- 72-1 to 53 See submission 69-1 to 53

**Submitter** Wendy Bailey

17 Huia St, Devonport North Shore City

- 2-1 Oppose the parts of the Plan change to do with antennas and transmitting station emission levels.

**Submitter** David L Balluntyne

P O Box 28, Albany Village Albany Village

- 73-1 to 53 See submission 69-1 to 53

**Submitter** Stanley Barnes NZ Association of Radio Transmitter Inc

31 Brooklands Road, Nelson 7010

- 74-1 to 53 See submission 69-1 to 53

**Submitter** Roger W Barraud

1/85 Target Rd, Glenfield North Shore City

- 75-1 to 53 See submission 69-1 to 53

**Submitter** Graham Beagley

24 Blomfield St, Pukehangi Rotorua 3015

- 76-1 to 53 See submission 69-1 to 53

**Submitter** James William Kenneth Begg  
27a Shanaway Rise, Northcote North Shore City  
77-1 to 53 See submission 69-1 to 53

**Submitter** Dr David Black  
PO Box 99-056, Newmarket  
4-1 Support all users of radiofrequency radiation complying with NZS 2772.1  
4-2 Oppose mandatory testing or monitoring of radiofrequency radiation.

**Further Submissions**

**Support**  
4-2x664 M D Newman 30 Nikau St, Wanganui,  
4-3 Oppose restrictions on the number of antennas allowed on a property.

**Further Submissions**

**Support**  
4-3x665 M D Newman 30 Nikau St, Wanganui,

**Submitter** N W Blackburn North Shore CB Club  
59a Sunset Rd, Glenfield North Shore City  
78-1 to 53 See submission 69-1 to 53

**Submitter** David J Blackett  
56 Church St, Northcote North Shore City  
79-1 to 53 See submission 69-1 to 53

**Submitter** Pamela Blackett  
56 Church St, Northcote North Shore City  
80-1 to 53 See submission 69-1 to 53

**Submitter** T G Borman  
98 Puriri St, Takapuna North Shore City  
44-1 Change the proposed Controls covering the radio amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management  
44-2 Oppose the proposed plan change generally as it fails to accommodate as permitted uses the reasonable requirements of amateur radio operators and the amateur radio service, through excessive limitations on the height, location and numbers of radio antennas and aerials and their supporting structures.  
44-3 Amend the proposed plan change to allow, as permitted uses, antennas erected at proper height and dimensions and in sufficient number for communications effectiveness and experimentation and otherwise that will reasonably accommodate amateur radio service communications.  
44-4 Amend the proposed plan change to remove the requirement for licensed amateur radio operators to have their radio frequency emissions subjected to monitoring and to be charged a fee for this monitoring.  
44-5 Permit the use of pole structures not exceeding 80mm in diameter to be used for supporting aerials and antenna  
44-6 Increase the height limits for amateur aerial and antenna supporting structures to 18 metres  
44-7 Allow the height of antennas mounted on buildings to be no less than for antennas on other supporting structures  
44-8 Remove the application of height control planes to amateur antennas and their supporting structures  
44-9 Reduce the setbacks of simple pole structures to 0.5 metres on all boundaries and for mast structures to 1.5 metres  
44-10 Allow amateur communication satellite dishes up to 4 metres in diameter  
44-11 No limitation on numbers of amateur antennas and their supporting structures.  
44-12 Incorporate the following wording: The requirement for mandatory random field testing shall not apply to the holder of an amateur radio license'.

**Submitter** Ralph Frederick Boshier NZ Association of Radio Transmitter Inc  
30 Ayton Dr, Glenfield North Shore City  
81-1 to 53 See submission 69-1 to 53

**Submitter** Rosemary Boshier NZ Association of Radio Transmitter Inc  
30 Ayton Dr, Glenfield North Shore City  
82-1 to 53 See submission 69-1 to 53

**Submitter** Leo Boyle  
37 Lewis Ave, Wanganui  
83-1 to 53 See submission 69-1 to 53

**Submitter** Dr Charles Bradfield  
18b Kitewao St, Northcote North Shore City  
84-1 to 53 See submission 69-1 to 53

- Submitter** Sylvia Joy Bradfield  
18b Kitewao St, Northcote 0627 North Shore City
- 85-1 to 53 See submission 69-1 to 53
- Submitter** G B Bramwell  
27 Lucas Pl, Glenholme Rotorua 3010
- 86-1 to 53 See submission 69-1 to 53
- Submitter** Hamish Hey Broadcast Communications Ltd C/- Hey Consulting  
P O Box 137, Taupo
- 5-1 Oppose the inclusion of rules that limit the number and type of antennas on utility masts and the use of the limited discretionary and discretionary activity classes of activity for such limited concentrations of antennas on utility infrastructure. In particular, amend the following rules in Table 14.1 Activity Status, and make consequential amendments arising from these changes.
- Aerials: Limited Discretionary - All zones where activity does not comply with Rule 14.5.3.1*
- Antennas*
- Antennas: attached to a BUILDING (excluding a MAST) that do not exceed;*
- ~~• 0.6m<sup>2</sup> in area or 0.8m in diameter, or~~
  - 1m<sup>2</sup> in area or 1m in diameter, ~~are located in Residential, Recreation and Special Purpose 3-11 or 13 zones, and complies with Rule 14.5.3.2.1 b) – (Activity Status same)~~
- Antennas: attached to a BUILDING (excluding a MAST) that do not exceed;*
- ~~• 1m<sup>2</sup> in area or 1m in diameter, or~~
  - 1.5m<sup>2</sup> in area...etc – Activity Status same
- Masts: in accordance with the height limits in 14.5.3.3*
- ~~*Permitted Controlled – Business zones 2-11 and Special Purpose 1,2 and 12 zones*~~
- ~~*Permitted Limited Discretionary – All other zones (including Business 1 where not adjacent to Residential 3 zone (other Activity Status same))*~~
- Antennas: attached to a MAST, not exceeding 1m<sup>2</sup> in area or 1m in diameter*
- ~~*Controlled – Business 2-11 Rural zones and Special purpose 1,2 and 12 zones*~~
- ~~*Permitted Limited Discretionary - All other zones*~~
- ~~*Discretionary Non-complying- Residential 3*~~
- Up to 3 ANTENNAS attached to a MAST or streetlight, provided that where there are 3 ANTENNAS, only one may be a dish ANTENNA and it may not have a diameter greater than 300mm*
- ~~*Controlled – Business 2-11 Rural zones and Special purpose 1,2 and 12 zones*~~
- ~~*Permitted Limited Discretionary - All other zones*~~
- ~~*Discretionary – Recreation and Residential 3 zones*~~
- Up to 4 ANTENNAS attached to a MAST or streetlight, provided that where there are 4 ANTENNAS, only one may be a any dish ANTENNA and it may not exceed 0.5m<sup>2</sup> in area or if a dish have a diameter greater than 600mm*
- ~~*Controlled – Business 2-11 Rural zones and Special purpose 1,2 and 12 zones*~~
- ~~*Permitted Discretionary - All other zones*~~
- ~~*Discretionary Non-Complying – Recreation and Residential 3 zones*~~

### **New Activity Status**

*Antennas attached to an existing, approved or permitted MAST, provided that any ANTENNA may not be greater than 1.0m<sup>2</sup> in area or if a dish have a diameter greater than 1.2m:*

*Permitted – All other zones*

*Discretionary – Recreation and Residential 3 zones*

### **Further Submissions**

#### **Support in Part**

5-1x1161 Telecom NZ P O Box 3082, Auckland,

- 5-2 Oppose the current wording of Policy 14.3.2.11. Amend to add the words at the end of the policy '...and therefore the plan requires monitoring when emissions are greater than appropriate threshold limits'.
- 5-3 Oppose bullet point 1 of clause 14.3.4. Amend to add the words at the end of the bullet point '..., *balanced against objective and internationally recognised science and the recognised need for the services provided by utility infrastructure and the essential services they provide to a modern society.*'
- 5-4 Oppose the inclusion of privately owned aerials and antennas in the definition of Network Utilities. Delete this reference from the ~~Explanation~~ and Reasons in Rule 14.4.2 and make consequential amendments elsewhere (eg definition of Network Utilities). In 14.4.2, amend to read as following:

‘... those parts of the telecommunication networks that are privately owned, including privately owned aerials and antennas by utility operators.

• any activity emitting radio frequency fields, ~~whether owned privately or by network utility operators.~~’

#### **Further Submissions**

##### **Support**

- 5-4x659 The Freeview Group PO Box 3819, Auckland,
- 5-5 Oppose Rule 14.5.1.2 Radio Frequency Fields as currently drafted. Amend as following and make consequential amendments as necessary;
- (b) (i) Any ~~cell site~~ applicant requesting consent to operate a telecommunication or radio communication facility or antenna or aerial shall be subject to random, independent monitoring of its emissions of radio frequency fields to ensure that such emissions comply with in respect of which a report has been provided as identified in Rule 14.5.1.2(a) that demonstrates that emissions will exceed 25% of the New Zealand Standard NZS 2772.1: 1999 Part 1 – Maximum Exposure Levels – 3kHz to 300GHz, measured at in all places reasonably accessible to the general public shall provide a report that identifies the actual level of radio frequency exposures once the facility is operations. Such a report shall be provided to Council within three months of the commencement of the activity.*
- (ii) ~~The monitoring will take place at the applicant's cost. Where any activity is found to be non compliant with Rule 14.5.1.2(a) in accordance with reporting under Rule 14.5.1.2(b)(i) then the applicant shall immediately take such necessary steps to ensure compliance and provide a further emissions level report within three months to demonstrate compliance.~~*
- (iii) ~~Where the applicant is a network utility operator, no more than ten percent of the total number of operator's cell sites in North Shore City shall be subject to such monitoring in any one year. Where the network utility operator has less than ten sites, no more than two sites shall be subject to such monitoring in any one year. Any EMR surveys should be undertaken in accordance with the Measurement Standard AS 2772.2 1998 or any replacements of this (it is currently being reviewed). Such a survey should be undertaken by an appropriately qualified and technically competent person.~~*
- 5-6 Amend Rule 14.5.2.4 Height, Height to Boundary and Yard Controls to add the following at the end of the Rule and make any necessary consequential amendments
- 5-7 Amend Rule 14.5.3.1.1.ii) Numbers of Aerials Attached to a Building as follows and make any necessary consequential amendments:
- ‘In Residential zones there shall be no more than ~~2~~ 3 aerials per residential unit on any site, except that if there are more than 2 residential units on a single site that are part of one block of buildings, only ~~4~~ 3 aerials per residential unit contiguous block of building is are permitted.*
- 5-8 Oppose Rule 14.5.3.1.2 i) Aerials Attached to a Mast and delete in its entirety.  
Amend Rule 14.5.3.1.2 ii) to set a maximum dimension of an aerial as 3.0 metres.  
Make any necessary consequential amendments.
- 5-9 Oppose Rule 14.5.3.2.1 b) Placement of Antennas attached to Buildings and delete in its entirety. Make any consequential amendments to the plan to manage antennas (height and location on roof structures) through the bulk and location rules and exceptions to them under the definitions in the plan

#### **Further Submissions**

##### **Support**

- 5-9x1178 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
5-9x1191 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland,
- 5-10 Oppose Rule 14.5.3.2.2(a) (ii) Numbers of Antennas and delete this rule. Make any necessary consequential amendments.
- 5-11 Oppose Rule 14.5.3.2.2(b) Location of Antennas. Delete this rule in its entirety and make any necessary consequential amendments to the plan.

#### **Further Submissions**

##### **Support**

- 5-11x1162 Telecom NZ P O Box 3082, Auckland,  
5-11x1179 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
5-11x1192 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland
- 5-12 Oppose part of Rule 14.5.3.3 Height of masts and antennas attached to masts. Amend the Rule in the Table to allow the height of masts and antennas attached to masts to make provision for a mast to be 3m greater than the height of buildings in the zone for residential zones.  
Provide an exception to the height of antennas when antennas are being added to existing utility masts that are above the heights specified in the table in Rule 14.5.3.3 as long as the addition of the antenna does not increase the non compliant height of the mast.  
Make any necessary consequential amendments to the plan

#### **Further Submissions**

##### **Support**

- 5-12x1180 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
5-12x1193 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland
- 5-13 Oppose Rule 14.5.3.4 Development of two or more residential units per building. Amend the Rule as follows and make any necessary consequential amendments to the Plan;
- Any development that contains two or more residential units in a single building shall connect each individual residential unit to a no more than three central aerials and a four central antennas. The connection, antenna and aerial shall enable the supply of free to air television, ~~and satellite television and access to a limited number of fixed Internet Service Providers~~ to each residential unit in the building, to avoid the need for each unit to have a separate aerial or antenna.*

#### **Further Submissions**

##### **Support**

- 5-13x1181 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
5-13x1194 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland
- 5-14 Oppose in part the definition of Network Utility. Delete part d) from the definition of Network Utility and make any necessary consequential amendments to the Plan.

#### **Further Submissions**

**Support**  
5-14x660 The Freeview Group PO Box 3819, Auckland,

**Submitter** R A Brown  
23 Valley Rd, Te Puke  
87-1 to 53 See submission 69-1 to 53

**Submitter** Rixt Brownlow  
37 Roslyn Tce, Devonport North Shore City  
6-1 Oppose the relaxation of rules regarding the installation of new cell sites, particularly in residential and school zones in Devonport.  
6-2 Oppose 14.5.1.2(iii) Radio Frequency Fields. Do not limit the numbers of an operator's cell sites that are subject to monitoring in any one year to 10% - increase this amount. Increase monitoring of cellsites with the telco companies to pay the compliance costs.

**Submitter** Howard Buxton Branch 29 NZART  
32 Castleton St, Birkdale North Shore City  
88-1 to 53 See submission 69-1 to 53

**Submitter** Roger Cadness  
109 Glamorgan Dr, Torbay North Shore City  
89-1 to 53 See submission 69-1 to 53

**Submitter** Jansen Cardy  
28 City View Tce, Birkenhead North Shore City  
90-1 to 53 See submission 69-1 to 53

**Submitter** Tony Case  
8c Breckons Ave, Nawton Hamilton  
91-1 to 53 See submission 69-1 to 53

**Submitter** Peter Leonard Cawte  
332 Upper Harbour Dr, Greenhithe North Shore City  
92-1 to 53 See submission 69-1 to 53

**Submitter** Charlie Chen  
10A Ussher Place, Pakuranga Auckland  
93-1 to 53 See submission 69-1 to 53

**Submitter** R Clarke  
1/35 Paramu Ave, Birkdale North Shore City  
7-1 Oppose provisions for height controls on aerials, antennas and masts (and any resource consent fees), as the height required is determined by signal strength.

**Submitter** K J Coates North Shore Radio Club  
2 Bardia St, Belmont North Shore City  
94-1 to 53 See submission 69-1 to 53

**Submitter** Robert Stanley Cole  
46 Walton Park Ave, Fairfield Dunedin  
95-1 to 53 See submission 69-1 to 53

**Submitter** John Collin  
65 Paine St, Judea Tauranga  
96-1 to 53 See submission 69-1 to 53

**Submitter** Geoffrey Cooke  
14 Sylvan Ave, Waikanae  
97-1 to 53 See submission 69-1 to 53

**Submitter** Len Cooper  
25 Hemi St, Devonport North Shore City  
8-1 Oppose any relaxation of rules relating to the erection and placement of masts, due to concern about health effects. Leave regulations as they currently stand so that full discussion can take place before further antennas are erected.

**Submitter** Priscilla Anne Cooper  
25 Hemi St, Devonport North Shore City  
9-1 Oppose any relaxation of rules relating to the erection of masts, due to concern about health effects. Leave regulations

as they currently stand until worldwide research into possible ill effects from radiofrequency radiation can categorically be dismissed.

- Submitter** Mark Corrigan  
P O Box 40135, Glenfield  
98-1 to 53 See submission 69-1 to 53
- Submitter** Tania Corrigan  
P O Box 40135, Glenfield  
99-1 to 53 See submission 69-1 to 53
- Submitter** Peter Crowhurst  
7h/205 Hobson St, Auckland  
100-1 to 53 See submission 69-1 to 53
- Submitter** David Crozier  
154 Grey St, Onehunga Auckland 1061  
101-1 to 53 See submission 69-1 to 53
- Submitter** Brian Cumber  
1/22 Girrahween Dr, Glenfield North Shore City  
10-1 Oppose following provisions - S 14.5.3.1.1 ii) Numbers of Aerials, and S 14.5.3.2.1 a) i) and ii), Height and Numbers. The numbers allowed are too small to allow all aerials and antennas required, eg VHF, UHF, Ham radio, CB and low power FM transmitters, satellite antennas.  
10-2 Oppose 14.5.3.2.1 b) i) Placement, as location may be dictated by direction of signal.
- Submitter** Michael Cumin  
P O Box 334082, Sunnynook  
102-1 to 53 See submission 69-1 to 53
- Submitter** Clive Curtis  
5 Argyle Rd, Browns Bay North Shore City  
103-1 to 53 See submission 69-1 to 53
- Submitter** Joseph Steven Alexander Dale NZART  
689 East Coast Rd, Browns Bay North Shore City  
104-1 to 53 See submission 69-1 to 53
- Submitter** Leonard John Dawe  
6 Linwood Ave, Forrest Hill North Shore City  
105-1 to 53 See submission 69-1 to 53
- Submitter** E K Dawson NZ Association of Radio Transmitter Inc  
680 East Coast Rd, Browns Bay North Shore City  
106-1 to 53 See submission 69-1 to 53
- Submitter** Rory Deans WZART Christchurch Branch  
1382 Tramway Rd, Dunsandel Rd 2 Leeston  
46-1 Change the proposed Controls covering the radio amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management  
46-2 Oppose the proposed plan change generally as it fails to accommodate as permitted uses the reasonable requirements of amateur radio operators and the amateur radio service, through excessive limitations on the height, location and numbers of radio antennas and aerials and their supporting structures.  
46-3 Amend the proposed plan change to allow, as permitted uses, antennas erected at proper height and dimensions and in sufficient number for communications effectiveness and experimentation and otherwise that will reasonably accommodate amateur radio service communications.  
46-4 Amend the proposed plan change to remove the requirement for licensed amateur radio operators to have their radio frequency emissions subjected to monitoring and to be charged a fee for this monitoring.  
46-5 Permit the use of pole structures not exceeding 80mm in diameter to be used for supporting aerials and antenna  
46-6 Increase the height limits for amateur aerial and antenna supporting structures to 18 metres  
46-7 Allow the height of antennas mounted on buildings to be no less than for antennas on other supporting structures  
46-8 Remove the application of height control planes to amateur antennas and their supporting structures  
46-9 Reduce the setbacks of simple pole structures to 0.5 metres on all boundaries and for mast structures to 1.5 metres  
46-10 Allow amateur communication satellite dishes up to 4 metres in diameter  
46-11 No limitation on numbers of amateur antennas and their supporting structures.  
46-12 Incorporate the following wording: 'The requirement for mandatory random field testing shall not apply to the holder of an amateur radio license'.
- Submitter** Robert John deBurgh

- 39 Seddon St, Feilding  
107-1 to 53 See submission 69-1 to 53
- Submitter** Peter Dekker  
118 Albany Heights Rd, Albany North Shore City  
108-1 to 53 See submission 69-1 to 53
- Submitter** Ronald de Koning  
247 Upper Harbour Dr, Greenhithe North Shore City  
109-1 to 53 See submission 69-1 to 53
- Submitter** John Alex Devenport Branch 18 NZART Inc  
17 Sunny Grove, Wainuiomata Lower Hutt 5014  
111-1 to 53 See submission 69-1 to 53
- Submitter** E I Deverick NZART  
1/B Jellicoe Rd, Rothesay Bay North Shore City  
110-1 to 53 See submission 69-1 to 53
- Submitter** Keith Dix  
91 East Tamaki Rd, Papatoetoe Auckland  
112-1 to 53 See submission 69-1 to 53
- Submitter** Peter Dopheide  
102 Huia Rd, Titirangi Auckland 7  
47-1 Oppose the Plan change as it will stifle ham radio activity in North Shore, which is necessary in the event of civil emergency and because it provides a source of interest and friendship for users.
- Submitter** Kenneth Duncan NZART  
2 Marsh Ave, Milford North Shore City  
113-1 to 53 See submission 69-1 to 53
- Submitter** John R Dunn  
264 Glenvar Rd, Torbay North Shore City  
114-1 to 53 See submission 69-1 to 53
- Submitter** John Sinclair Duske  
11 Pendene Pl, Forrest Hill North Shore City  
115-1 to 53 See submission 69-1 to 53
- Submitter** Robert White East Coast Bays Coastal Protection Society  
54 Peter Tce, Castor Bay North Shore City  
11-1 Support the proposed Plan change in all respects relating to undergrounding of services. Ensure Policy 14.3.2 10 be enforced in the Long Bay Structure Plan area

**Further Submissions**

**Oppose**

- 11-1x236 Vector Ltd P O Box 99882, Newmarket, Auckland,  
11-2 Support Policy 14.3.2 11 and ensure that this policy is enforced in Long Bay.

**Further Submissions**

**Oppose**

- 11-2x237 Vector Ltd P O Box 99882, Newmarket, Auckland,  
11-3 Support the proposed measures relating to the 1% AEP flood plain and the foreshore yard.

- Submitter** Scott Young Econet Wireless NZ Ltd  
P O Box 8355, Symonds St Auckland  
12-1 Oppose policies as they are too subjective and will introduce more risk, cost and time delay.  
12-2 Oppose plan change as will result in more cell sites being built rather than less, which increases the cost of bringing service to the community and obstructs and delays implementation of a network.  
12-3 Oppose the provisions relating to Radiofrequency fields and the introduction of further regulation above NZS 2772 and the imposition of monitoring costs on the operator.

- Submitter** D N Ellis  
51 Maritime Tce, Birkenhead 0626 North Shore City  
48-1 to 53 See submission 69-1 to 53  
48-54 Oppose the plan change as it restricts amateur radio operators and they are important in the event of civil emergency.

- Submitter** Neill Martin Ellis Branch 53 NZART  
P O Box 1020, Tauranga 3140



116-1 to 53 See submission 69-1 to 53

**Submitter** James Michael Elvy  
62a Salisbury Rd, Birkdale North Shore City

117-1 to 53 See submission 69-1 to 53

**Submitter** John Elvy  
Larksfield Cottage, 34 St Leonards Rd Rd1 Blenheim 7271

118-1 to 53 See submission 69-1 to 53

**Submitter** Nicholas Emery  
10 Charmaine Rd, Torbay North Shore City

119-1 to 53 See submission 69-1 to 53

**Submitter** Heinrich Falkner  
8 Kapai Road, Devonport North Shore City

120-1 to 53 See submission 69-1 to 53

**Submitter** I G Fletcher North Shore Amateur Radio Club  
248 East Coast Rd, Forrest Hill North Shore City

121-1 to 53 See submission 69-1 to 53

**Submitter** Mark Foster  
P O Box 45156, Waterloo Lower Hutt

122-1 to 53 See submission 69-1 to 53

**Submitter** Ann Fraser North Canterbury Amateur Radio Club  
P O Box 12, Waipara 7447 North Canterbury

123-1 to 53 See submission 69-1 to 53

**Submitter** David Fraser North Canterbury Amateur Radio Club  
P O Box 12, Waipara 7447 North Canterbury

124-1 to 53 See submission 69-1 to 53

**Submitter** J C Freeman NZ Association of Radio Transmitter Inc  
3/7 Belle Verde Dr, Mairangi Bay North Shore City

125-1 to 53 See submission 69-1 to 53

**Submitter** The Freeview Group C/- Television New Zealand, PO Box 3819 Auckland  
Attn. Ric Carlyon

13-1 Oppose the provisions of the Plan change that limit the number, design, size height and location of privately owned antennas and aerials. Many North Shore residences have marginal reception and in the medium term at least one new antenna will be required for the move to digital television. Strict application of the proposals would rule out acceptable television reception for large numbers of residents and for some, could result in no reception at all.

#### **Further Submissions**

##### **Support**

13-1x442 Broadcast Communications Ltd P O Box 137, Taupo,

**Submitter** Brian S Fryer North Shore CB Radio Club Inc  
38 Monarch Ave, Glenfield North Shore City

126-1 to 53 See submission 69-1 to 53

**Submitter** Dr Ross Garrett  
13 Rock Isle Rd, Torbay North Shore City

14-1 Changes should be made to the proposed rules so that amateur radio operators can continue with the hobby that has been legal since the 1920's.

14-2 Oppose in part section 14.5.1.2 (b) Radio frequency fields. Amend this provision to exclude this requirement for licensed radio amateur radio operators.

#### **Further Submissions**

##### **Support**

14-2x439 M D Newman 30 Nikau St, Wanganui,

14-3 Oppose the limitation of aerial size to 3m in S14.5.3.1.1 (iii). The limitation of aerials to this size would make long range communication extremely difficult.

#### **Further Submissions**

##### **Support**

14-3x661 M D Newman 30 Nikau St, Wanganui,

**Submitter** George F George  
105b Melbourne St, South Dunedin

127-1 to 53 See submission 69-1 to 53

- Submitter** Francis Giles  
1006 Sussex St, Hastings 4122  
128-1 to 53 See submission 69-1 to 53
- Submitter** Geoffrey Herbert Gillman North Canterbury Amateur Radio Club  
6 Boyd St, Rangiora 7400  
129-1 to 53 See submission 69-1 to 53
- Submitter** Randall Quinton Goldfinch  
4 Tukes Pl, Greenmeadows Napier  
130-1 to 53 See submission 69-1 to 53
- Submitter** Nigel Goldstone  
PO Box 351, Drury Papakura  
131-1 to 53 See submission 69-1 to 53
- Submitter** Alwyn Goodenough NZ Association of Radio Transmitter Inc  
754 East Coast Rd, Albany North Shore City  
132-1 to 53 See submission 69-1 to 53
- Submitter** Jacqueline Goodenough North Shore Amateur Radio Club  
754 East Coast Rd, Albany North Shore City  
133-1 to 53 See submission 69-1 to 53
- Submitter** Robert Grayson  
25 Rembrandt Pl, Papakura  
134-1 to 53 See submission 69-1 to 53
- Submitter** Greenhithe Residents, Ratepayers and Community Hall Association Inc  
PO Box 27, Greenhithe North Shore City  
230-1 Support proposed plan change as it applies to the Greenhithe Structure Plan zone, and specifically in respect of the following matters:-
- Additional control over TV aerials, antennas and satellite dishes which are unusually large, numerous or in undesirable locations
  - Undergrounding of electricity and telephone lines in new developments (and all existing lines as well)

#### **Further Submissions**

##### **Oppose**

230-1x301 Vector Ltd P O Box 99882, Newmarket, Auckland,  
230-1x465 M D Newman 30 Nikau St, Wanganui,

##### **Oppose in Part**

230-1x429 Broadcast Communications Ltd P O Box 137, Taupo,

- Submitter** Wayne Griffin  
P O Box 28300, Auckland  
135-1 to 53 See submission 69-1 to 53
- Submitter** Warren Harris  
51 Wellwood Street, Hastings  
136-1 to 53 See submission 69-1 to 53
- Submitter** Neil Graham Harsant  
105 Coronation Rd, Hillcrest North Shore City  
137-1 to 53 See submission 69-1 to 53
- Submitter** Stephen Ronald Hayman  
68 Kath Hopper Dr, Orewa Rodney District  
138-1 to 53 See submission 69-1 to 53
- Submitter** Vaughan Henderson  
P O Box 34507, Birkenhead
- 15-1 Oppose the application of S 14.5.3.1. Aerials should not apply to the holder of an amateur radio license.
- 15-2 Change the proposed controls on Radio Amateur aerials, antennas and masts.
- 15-3 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1
- 15-4 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management.
- Submitter** Brian Heywood

P O Box 3120, Greerton Tauranga 3142

16-1 Amateur radio masts, aerials and antenna should be exempted from the proposed rules or more discretionary conditions allowed.

**Further Submissions**

**Support**

16-1x461 M D Newman 30 Nikau St, Wanganui,

16-2 Amateur radio stations should be exempted from any radio frequency testing requirement, as they comply with NZS 2772 if at a reasonable height, and should be permitted to operate under the terms of licenses issued by MED.

**Further Submissions**

**Support**

16-2x662 M D Newman 30 Nikau St, Wanganui,

**Submitter** John Hirtzel

451 Greers Rd, Christchurch 8053

139-1 to 53 See submission 69-1 to 53

**Submitter** Tim Holden

54 Pleasant St, Onehunga North Shore City

140-1 to 53 See submission 69-1 to 53

**Submitter** H R Holtz

60 Landing Dr, Albany North Shore City

141-1 to 53 See submission 69-1 to 53

**Submitter** John Hotchin-Davies

9 Inga Road, Milford North Shore City

231-1 Support the Plan change except for the proposed rules concerning telecommunication cell sites. Oppose changes to these rules.

**Further Submissions**

**Oppose**

231-1x462 M D Newman 30 Nikau St, Wanganui,

**Submitter** Kenneth Bremner Huffadine

21 Upper Harbour Dr, Greenhithe North Shore City

17-1 New above ground electric and telecommunication lines and telecommunication cell sites should be treated equally under Objective 14.3.1 (2), not introducing more stringent rules concerning the former, and relaxing rules concerning the latter.

**Further Submissions**

**Support**

17-1x238 Vector Ltd P O Box 99882, Newmarket, Auckland,

17-2 Support the Plan change's intention to encourage the location of aerials and antennas on buildings, and the location of antennas on streetlights or road signage. In residential areas the height of antennas should be restricted close to the existing streetlight height.

**Further Submissions**

**Oppose**

17-2x464 M D Newman 30 Nikau St, Wanganui,

17-3 Telecommunications companies install cell sites for financial gain. They should reimburse owners of neighbouring properties for the loss in value of their properties, if there is one.

17-4 NSCC should implement a policy requiring independently evaluated justification from cell phone companies for the erection of cell phone towers.

17-5 The council should keep a single database of cell phone towers to monitor the number and location of the towers.

**Submitter** G Humphrey Branch 39 NZART

7 Miranda St, Tauranga

49-1 Change the proposed controls on Radio Amateur aerials, antennas and masts

49-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

49-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** Glenise Irving

14 Sharon Rd, Waiake 1311

18-1 Cell sites should be obviously displayed and if hidden a sign should be erected to let the public know where they are.

18-2 Support the provisions regarding independent monitoring of cell sites. Each cell site should be monitored every year.

**Further Submissions**

**Oppose**

18-2x443 Broadcast Communications Ltd P O Box 137, Taupo,

**Submitter** Blair Jackson North Shore Amateur Radio Club

120 Albany Heights Rd, Albany North Shore City

142-1 to 53 See submission 69-1 to 53

**Submitter** JFC Johnson NZ Association of Radio Transmitter Inc

15 Field St, Upper Hutt 5019

143-1 to 53 See submission 69-1 to 53

**Submitter** Dave Johnston

2/29 Manse Rd, Papakura

50-1 Change the proposed controls on Radio Amateur aerials, antennas and masts

50-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

50-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** W F Jopling

24 Mayall Ave, Beachhaven North Shore City

144-1 to 53 See submission 69-1 to 53

**Submitter** Donald Henry Joseph

38 Sunnybrae Rd, Northcote North Shore City

145-1 to 53 See submission 69-1 to 53

**Submitter** Richard Kane

63 Monarch Ave, Hillcrest North Shore City

19-1 Oppose Council getting involved in the appearance of utilities, as it will increase the costs to the utility owners, resulting in increased charges and underinvestment in infrastructure.

**Submitter** David Karrasch

24 Brooke Rd, Papakura

51-1 Change the proposed controls on Radio Amateur aerials, antennas and masts

51-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

51-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** Phillip King

PO BOX 126, hAMILTON

52-1 to 53 See submission 69-1 to 53

**Submitter** Shane Kuzmanic

20 Widdison Place, Albany North Shore City

232-1 Oppose rule concerning limitations on placement of satellite dishes where they can be seen from a road or public place.

#### **Further Submissions**

##### **Support**

232-1x440 Broadcast Communications Ltd P O Box 137, Taupo,

**Submitter** Peter B Lake International Amateur Radio Union

12 Brasenose Place, Tawa, Wellington

53-1 to 53 See submission 69-1 to 53

**Submitter** James John Lamberton

105 Arrowsmith Rd, Waitakere

146-1 to 53 See submission 69-1 to 53

**Submitter** Colin Lee

117 Chelsea View Dr, Chatswood Auckland 1310

147-1 to 53 See submission 69-1 to 53

**Submitter** Jung Sik Lee

36 Pukatea Ave, Albany North Shore City

148-1 to 53 See submission 69-1 to 53

**Submitter** Bob Leenstra

2/7 Havelock Avenue, Forrest Hill North Shore City

233-1 Support all proposals in this plan change.

#### **Further Submissions**

##### **Oppose**

233-1x300 Vector Ltd P O Box 99882, Newmarket, Auckland,

233-1x466 M D Newman 30 Nikau St, Wanganui,

**Submitter** Helen I Leinwand

73 Tender Road, RD 4 Albany North Shore City

149-1 to 53 See submission 69-1 to 53

**Submitter** Robert Leinwand  
73 Tender Road, RD 4 Albany North Shore City

150-1 to 53 See submission 69-1 to 53

**Submitter** P J Lovegrove  
145 Carlisle Rd, Northcross North Shore City

151-1 to 53 See submission 69-1 to 53

**Submitter** W David MacClement  
P O Box 108, Greenhithe

152-1 to 53 See submission 69-1 to 53

**Submitter** Colin David Mackay  
84 Francis St, Takapuna

154-1 to 53 See submission 69-1 to 53

**Submitter** Kurt Marquart  
190 Browns Bay Rd, Browns Bay North Shore City

54-1 Include the effect of shadowing, eg in 14.2.1

#### **Further Submissions**

##### **Oppose**

54-1x293 Vector Ltd P O Box 99882, Newmarket, Auckland,

54-2 Include a sunset clause that requires utilities to remove structures at the end of their useful life.

#### **Further Submissions**

##### **Oppose**

54-2x294 Vector Ltd P O Box 99882, Newmarket, Auckland

54-3 When utilities are approved for a particular function, prevent them changing use from that approved function.

#### **Further Submissions**

##### **Oppose**

54-3x295 Vector Ltd P O Box 99882, Newmarket, Auckland,

54-4 Provide for health effects of utilities on unhealthy people.

#### **Further Submissions**

##### **Oppose**

54-4x296 Vector Ltd P O Box 99882, Newmarket, Auckland

54-5 Require utility companies to underground cabinets where feasible.

#### **Further Submissions**

##### **Oppose**

54-5x297 Vector Ltd P O Box 99882, Newmarket, Auckland

**Submitter** George Mathew  
59b Hale Cres, Glenfield North Shore City

154-1 to 53 See submission 69-1 to 53

**Submitter** James Francis Matthews  
26 Ocean View Rd, Northcote North Shore City

155-1 to 53 See submission 69-1 to 53

**Submitter** William McCafferty  
23 Dudding Ave, Northcote North Shore City

156-1 to 53 See submission 69-1 to 53

**Submitter** Ian McCaw Branch 43 NZART  
233 Chartwell Ave, Whangamata 3620

157-1 to 53 See submission 69-1 to 53

**Submitter** Ken McCormack Branch 29 NZART  
181 Ararimu Valley Rd, Rd 2 Waimauku 0882

158-1 to 53 See submission 69-1 to 53

**Submitter** Karen McGlone  
194 Walter Stevens Dr, Takanini

159-1 to 53 See submission 69-1 to 53

**Submitter** Grant McGregor  
38 Kawiti Ave, Point England Auckland

160-1 to 53 See submission 69-1 to 53

**Submitter** Philip McHugh  
186 Hillsborough Rd, Hillsborough Auckland  
161-1 to 53 See submission 69-1 to 53

**Submitter** Bruce McPike North Shore Amateur Radio Club  
1/3 Bardia St, Belmont North Shore City  
162-1 to 53 See submission 69-1 to 53

**Submitter** James Alexander Meachen  
1/25 Coronation Rd, Hillcrest North Shore City  
163-1 to 53 See submission 69-1 to 53

**Submitter** R N Miller Amateur Radio Emergency Communications  
Villa 4 79 Merlot Dr, Napier

55-1 Change the proposed Controls covering the radio amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

55-2 Oppose the proposed plan change generally as it fails to accommodate as permitted uses the reasonable requirements of amateur radio operators and the amateur radio service, through excessive limitations on the height, location and numbers of radio antennas and aerials and their supporting structures.

55-3 Amend the proposed plan change to allow, as permitted uses, antennas erected at proper height and dimensions and in sufficient number for communications effectiveness and experimentation and otherwise that will reasonably accommodate amateur radio service communications.

55-4 Amend the proposed plan change to remove the requirement for licensed amateur radio operators to have their radio frequency emissions subjected to monitoring and to be charged a fee for this monitoring.

55-5 Permit the use of pole structures not exceeding 80mm in diameter to be used for supporting aerials and antenna

55-6 Increase the height limits for amateur aerial and antenna supporting structures to 18 metres

55-7 Allow the height of antennas mounted on buildings to be no less than for antennas on other supporting structures

55-8 Remove the application of height control planes to amateur antennas and their supporting structures

55-9 Reduce the setbacks of simple pole structures to 0.5 metres on all boundaries and for mast structures to 1.5 metres

55-10 Allow amateur communication satellite dishes up to 4 metres in diameter

55-11 No limitation on numbers of amateur antennas and their supporting structures.

55-12 Incorporate the following wording: The requirement for mandatory random field testing shall not apply to the holder of an amateur radio license'.

**Submitter** Callum Roy Moates  
P O Box 102, Maungatapere  
164-1 to 53 See submission 69-1 to 53

**Submitter** Donald Moore North Shore Amateur Radio Club  
2 Kanuka Way, Albany North Shore City  
165-1 to 53 See submission 69-1 to 53

**Submitter** James Moore  
37a Kimberhall Ave, Mount Roskill Auckland  
166-1 to 53 See submission 69-1 to 53

**Submitter** Peter John Moore NZART  
54 Herbert Ave, Palmerston North  
167-1 to 53 See submission 69-1 to 53

**Submitter** Giovanni Moretti  
9 Droylsden Pl, Palmerston North  
168-1 to 53 See submission 69-1 to 53

**Submitter** Peter Mott  
PO Box 36 502, Northcote North Shore City  
169-1 to 53 See submission 69-1 to 53

**Submitter** J Muller  
1/7 Newhaven Tce, Mairangi By 1310 North Shore City  
170-1 to 53 See submission 69-1 to 53

**Submitter** Peter Scott Neill  
11 Tauhara St, Green Bay Auckland  
171-1 to 53 See submission 69-1 to 53

**Submitter** Michael David Newman New Zealand Association of Radio Transmitters (Inc)

P O Box 40525, Upper Hutt

20-1

Oppose the proposed Plan change as it fails to reasonably accommodate the requirements of amateur radio operators, and the amateur radio service, through excessive limitation on the height, location, numbers, dimension and type of radio antennas and their supporting structures, through onerous and costly testing and monitoring, and inappropriate and confusing definitions. Amend the proposed change to reasonably accommodate amateur radio service communications.

**Further Submissions**

**Support**

20-1x1

P W Dent P O Box 7033, Tikipunga, Whangarei,

20-1x10	Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,
20-1x19	John F G Bell 34 Layton Rd, Whangaparaoa 0930,
20-1x28	Maurice Bowman 10 Puriri St, Takapuna, North Shore City,
20-1x37	Charles Malcolm George Moates 892 SH 14, Maungatapere,
20-1x46	Jeff King 169 Carroll St, City Rise, Dunedin 9016,
20-1x55	Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,
20-1x64	Vern Morris 1/1 Castlemaine Close, Manukau 2016,
20-1x73	David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,
20-1x82	Alfred George Kennedy 116 Wade River Rd, Arkles Bay,
20-1x91	A N Marsden 4b Rosario Crescent, Red Beach, Orewa,
20-1x100	Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,
20-1x109	Roger Smith 90 Anzac, Whangarei,
20-1x118	D Wadham 479/1 Whangaparaoa Rd, Stanmore Bay, Whangaparaoa,
20-1x127	Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,
20-1x136	Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,
20-1x147	Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,
20-1x156	Tony Case 8c Breckons Ave, Nawton, Hamilton,
20-1x165	Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,
20-1x174	Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,
20-1x183	Peter John Moore 54 Herbert Ave, Palmerston North,
20-1x192	Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,
20-1x201	Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,
20-1x209	JFC Johnson 15 Field St, Upper Hutt 5019,
20-1x218	W Obrien 133 Makino Rd, Fielding,
20-1x227	Paul M Penberthy Rd 5, Palmerston North,
20-1x302	Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,
20-1x311	Robert John Waters 32 Taft St, Brooklyn, Wellington,
20-1x320	Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,
20-1x330	Warren Harris 501 Wellwood Street, Hastings,
20-1x339	John Stuart P O Box 1718, Palmerston North,
20-1x348	Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-1x357	Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-1x366	Graham Barton 82 Wairoa Rd, Devonport, Auckland,
20-1x375	James Percival Rowe 100 Totara Close, Thames,
20-1x384	K McVie 18 Grigor St, Brockville, Dunedin 9011,
20-1x393	Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,
20-1x402	Phillip King P O Box 126, Hamilton,
20-1x411	Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,
20-1x420	Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,
20-1x430	James Charles Pye 63 Thackeray St, Upper Hutt 5018,
20-1x467	Brian Heywood P O Box 3120, Greerton, Tauranga 3142,
20-1x476	J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,
20-1x485	I M Sexton 10 Fair Oaks, Pukekohe,
20-1x494	J M Seakins 64 Parr Tce, Milford, North Shore City,
20-1x503	R A Brown 23 Valley Rd, Te Puke,
20-1x512	Hugh Gordon Cooper 5 Graham Place, Tauranga,
20-1x533	David G King 11 Salmond Place, Hamilton 3204,
20-1x542	Nigel Goldstone PO Box 351, Drury, Papakura,
20-1x551	P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,
20-1x560	The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,
20-1x569	James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,
20-1x578	Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,
20-1x587	Peter Pohl 58 Norton Park Ave, Lower Hutt,
20-1x596	Geoff and Bev Gillman 6 Boyd St, Rangiora 7400,
20-1x605	Colin Hulse Ness Rd, RD 2 Kerikeri,
20-1x614	John Andrews 68 Khandallah Rd, Wellington,
20-1x623	Stanley Barnes 31 Brooklands Road, Nelson 7010,
20-1x632	Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,
20-1x641	Dr John R L Walker 19 Athol Tce, Christchurch,
20-1x650	Robert John deBurgh 39 Seddon St, Feilding,
20-1x1146	J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,

20-2 Allow antennas supporting structures to a height of 18 m.

#### **Further Submissions** **Support**

20-2x2	P W Dent P O Box 7033, Tikipunga, Whangarei,
20-2x11	Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,
20-2x20	John F G Bell 34 Layton Rd, Whangaparaoa 0930,
20-2x29	Maurice Bowman 10 Puriri St, Takapuna, North Shore City,
20-2x38	Charles Malcolm George Moates 892 SH 14, Maungatapere,
20-2x47	Jeff King 169 Carroll St, City Rise, Dunedin 9016,
20-2x56	Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,
20-2x65	Vern Morris 1/1 Castlemaine Close, Manukau 2016,
20-2x74	David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,
20-2x83	Alfred George Kennedy 116 Wade River Rd, Arkles Bay,
20-2x92	A N Marsden 4b Rosario Crescent, Red Beach, Orewa,
20-2x101	Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,
20-2x110	Roger Smith 90 Anzac, Whangarei,
20-2x119	D Wadham 479/1 Whangaparaoa Rd, Stanmore Bay, Whangaparaoa,
20-2x128	Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,



20-2x137 Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,  
20-2x148 Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,  
20-2x157 Tony Case 8c Breckons Ave, Nawton, Hamilton,  
20-2x166 Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,  
20-2x175 Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,  
20-2x184 Peter John Moore 54 Herbert Ave, Palmerston North,  
20-2x193 Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,  
20-2x202 Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,  
20-2x210 JFC Johnson 15 Field St, Upper Hutt 5019,  
20-2x219 W Obrien 133 Makino Rd, Fielding,  
20-2x228 Paul M Penberthy Rd 5, Palmerston North,  
20-2x303 Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,  
20-2x312 Robert John Waters 32 Taft St, Brooklyn, Wellington,  
20-2x321 Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,  
20-2x331 Warren Harris 501 Wellwood Street, Hastings,  
20-2x340 John Stuart P O Box 1718, Palmerston North,  
20-2x349 Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,  
20-2x358 Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,  
20-2x367 Graham Barton 82 Wairoa Rd, Devonport, Auckland,  
20-2x376 James Percival Rowe 100 Totara Close, Thames,  
20-2x385 K McVie 18 Grigor St, Brockville, Dunedin 9011,  
20-2x394 Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,  
20-2x403 Phillip King P O Box 126, Hamilton,  
20-2x412 Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,  
20-2x421 Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,  
20-2x431 James Charles Pye 63 Thackeray St, Upper Hutt 5018,  
20-2x468 Brian Heywood P O Box 3120, Greerton, Tauranga 3142,  
20-2x477 J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,  
20-2x486 I M Sexton 10 Fair Oaks, Pukekohe,  
20-2x495 J M Seakins 64 Parr Tce, Milford, North Shore City,  
20-2x504 R A Brown 23 Valley Rd, Te Puke,  
20-2x513 Hugh Gordon Cooper 5 Graham Place, Tauranga,  
20-2x534 David G King 11 Salmond Place, Hamilton 3204,  
20-2x543 Nigel Goldstone PO Box 351, Drury, Papakura,  
20-2x552 P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,  
20-2x561 The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,  
20-2x570 James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,  
20-2x579 Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,  
20-2x588 Peter Pohl 58 Norton Park Ave, Lower Hutt,  
20-2x597 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400,  
20-2x606 Colin Hulse Ness Rd, RD 2 Kerikeri,  
20-2x615 John Andrews 68 Khandallah Rd, Wellington,  
20-2x624 Stanley Barnes 31 Brooklands Road, Nelson 7010,  
20-2x633 Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,  
20-2x642 Dr John R L Walker 19 Athol Tce, Christchurch,  
20-2x651 Robert John deBurgh 39 Seddon St, Feilding,  
20-2x1147 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,

20-3 Height limitations should not be applied directly to antennas.

#### **Further Submissions**

##### **Support**

20-3x3 P W Dent P O Box 7033, Tikipunga, Whangarei,  
20-3x12 Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,  
20-3x21 John F G Bell 34 Layton Rd, Whangaparaoa 0930,  
20-3x30 Maurice Bowman 10 Puriri St, Takapuna, North Shore City,  
20-3x39 Charles Malcolm George Moates 892 SH 14, Maungatapere,  
20-3x48 Jeff King 169 Carroll St, City Rise, Dunedin 9016,  
20-3x57 Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,  
20-3x66 Vern Morris 1/1 Castlemaine Close, Manukau 2016,  
20-3x75 David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,  
20-3x84 Alfred George Kennedy 116 Wade River Rd, Arkles Bay,  
20-3x93 A N Marsden 4b Rosario Crescent, Red Beach, Orewa,  
20-3x102 Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,  
20-3x111 Roger Smith 90 Anzac, Whangarei,  
20-3x120 D Wadham 479/1 Whangaparaoa Rd, Stanmore Bay, Whangaparaoa,  
20-3x129 Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,  
20-3x138 Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,  
20-3x149 Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,  
20-3x158 Tony Case 8c Breckons Ave, Nawton, Hamilton,  
20-3x167 Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,  
20-3x176 Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,  
20-3x185 Peter John Moore 54 Herbert Ave, Palmerston North,  
20-3x194 Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,  
20-3x203 Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,  
20-3x211 JFC Johnson 15 Field St, Upper Hutt 5019,  
20-3x220 W Obrien 133 Makino Rd, Fielding,  
20-3x229 Paul M Penberthy Rd 5, Palmerston North,  
20-3x304 Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,  
20-3x313 Robert John Waters 32 Taft St, Brooklyn, Wellington,  
20-3x322 Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,  
20-3x332 Warren Harris 501 Wellwood Street, Hastings,  
20-3x332

20-3x341	John Stuart P O Box 1718, Palmerston North,
20-3x350	Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-3x359	Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-3x368	Graham Barton 82 Wairoa Rd, Devonport, Auckland,
20-3x377	James Percival Rowe 100 Totara Close, Thames,
20-3x386	K McVie 18 Grigor St, Brockville, Dunedin 9011,
20-3x395	Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,
20-3x404	Phillip King P O Box 126, Hamilton,
20-3x413	Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,
20-3x422	Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,
20-3x432	James Charles Pye 63 Thackeray St, Upper Hutt 5018,
20-3x469	Brian Heywood P O Box 3120, Greerton, Tauranga 3142,
20-3x478	J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,
20-3x487	I M Sexton 10 Fair Oaks, Pukekohe,
20-3x496	J M Seakins 64 Parr Tce, Milford, North Shore City,
20-3x505	R A Brown 23 Valley Rd, Te Puke,
20-3x514	Hugh Gordon Cooper 5 Graham Place, Tauranga,
20-3x535	David G King 11 Salmond Place, Hamilton 3204,
20-3x544	Nigel Goldstone PO Box 351, Drury, Papakura,
20-3x553	P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,
20-3x562	The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,
20-3x571	James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,
20-3x580	Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,
20-3x589	Peter Pohl 58 Norton Park Ave, Lower Hutt,
20-3x598	Geoff and Bev Gillman 6 Boyd St, Rangiora 7400,
20-3x607	Colin Hulse Ness Rd, RD 2 Kerikeri,
20-3x616	John Andrews 68 Khandallah Rd, Wellington,
20-3x625	Stanley Barnes 31 Brooklands Road, Nelson 7010,
20-3x634	Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,
20-3x643	Dr John R L Walker 19 Athol Tce, Christchurch,
20-3x652	Robert John deBurgh 39 Seddon St, Feilding,
20-3x1148	J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216
20-4	Allow the use of guyed pole antenna supporting structures without bulk dimension constraints.

#### **Further Submissions**

##### **Support**

20-4x4	P W Dent P O Box 7033, Tikipunga, Whangarei,
20-4x13	Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,
20-4x22	John F G Bell 34 Layton Rd, Whangaparaoa 0930,
20-4x31	Maurice Bowman 10 Puriri St, Takapuna, North Shore City,
20-4x40	Charles Malcolm George Moates 892 SH 14, Maungatapere,
20-4x49	Jeff King 169 Carroll St, City Rise, Dunedin 9016,
20-4x58	Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,
20-4x67	Vern Morris 1/1 Castlemaine Close, Manukau 2016,
20-4x76	David Anthony Armet 66 Fitzwilliam Dr, Torbay, North Shore City,
20-4x85	Alfred George Kennedy 116 Wade River Rd, Arkles Bay,
20-4x94	A N Marsden 4b Rosario Crescent, Red Beach, Orewa,
20-4x103	Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,
20-4x112	Roger Smith 90 Anzac, Whangarei,
20-4x121	D Wadham 479/1 Whangaparaoa Rd, Stanmore Bay, Whangaparaoa,
20-4x130	Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,
20-4x139	Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,
20-4x150	Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,
20-4x159	Tony Case 8c Breckons Ave, Newton, Hamilton,
20-4x168	Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,
20-4x177	Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,
20-4x186	Peter John Moore 54 Herbert Ave, Palmerston North,
20-4x195	Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,
20-4x204	Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,
20-4x212	JFC Johnson 15 Field St, Upper Hutt 5019,
20-4x221	W O'Brien 133 Makino Rd, Fielding,
20-4x230	Paul M Penberthy Rd 5, Palmerston North,
20-4x305	Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,
20-4x314	Robert John Waters 32 Taft St, Brooklyn, Wellington,
20-4x323	Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,
20-4x333	Warren Harris 501 Wellwood Street, Hastings,
20-4x342	John Stuart P O Box 1718, Palmerston North,
20-4x351	Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-4x360	Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-4x369	Graham Barton 82 Wairoa Rd, Devonport, Auckland,
20-4x378	James Percival Rowe 100 Totara Close, Thames,
20-4x387	K McVie 18 Grigor St, Brockville, Dunedin 9011,
20-4x396	Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,
20-4x405	Phillip King P O Box 126, Hamilton,
20-4x414	Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,
20-4x423	Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,
20-4x433	James Charles Pye 63 Thackeray St, Upper Hutt 5018,
20-4x470	Brian Heywood P O Box 3120, Greerton, Tauranga 3142,
20-4x479	J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,
20-4x488	I M Sexton 10 Fair Oaks, Pukekohe,
20-4x497	J M Seakins 64 Parr Tce, Milford, North Shore City,
20-4x506	R A Brown 23 Valley Rd, Te Puke,

20-4x515 Hugh Gordon Cooper 5 Graham Place, Tauranga,  
 20-4x536 David G King 11 Salmond Place, Hamilton 3204,  
 20-4x545 Nigel Goldstone PO Box 351, Drury, Papakura,  
 20-4x554 P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,  
 20-4x563 The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,  
 20-4x572 James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,  
 20-4x581 Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,  
 20-4x590 Peter Pohl 58 Norton Park Ave, Lower Hutt,  
 20-4x599 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400,  
 20-4x608 Colin Hulse Ness Rd, RD 2 Kerikeri,  
 20-4x617 John Andrews 68 Khandallah Rd, Wellington,  
 20-4x626 Stanley Barnes 31 Brooklands Road, Nelson 7010,  
 20-4x635 Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,  
 20-4x644 Dr John R L Walker 19 Athol Tce, Christchurch,  
 20-4x653 Robert John deBurgh 39 Seddon St, Feilding  
 20-4x1149 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216

20-5 Allow self supporting lattice mast supporting structures with maximum horizontal dimensions of;

- 800mm to a maximum height of 8 m
- 650 mm to a maximum height of 14 m
- 450mm to a maximum height of 18 m

### **Further Submissions**

#### **Support**

20-5x5 P W Dent P O Box 7033, Tikipunga, Whangarei,  
 20-5x14 Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,  
 20-5x23 John F G Bell 34 Layton Rd, Whangaparaoa 0930,  
 20-5x32 Maurice Bowman 10 Puriri St, Takapuna, North Shore City,  
 20-5x41 Charles Malcolm George Moates 892 SH 14, Maungatapere,  
 20-5x50 Jeff King 169 Carroll St, City Rise, Dunedin 9016,  
 20-5x59 Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,  
 20-5x68 Vern Morris 1/1 Castlemaine Close, Manukau 2016,  
 20-5x77 David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,  
 20-5x86 Alfred George Kennedy 116 Wade River Rd, Arkles Bay,  
 20-5x95 A N Marsden 4b Rosario Crescent, Red Beach, Orewa,  
 20-5x104 Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,  
 20-5x113 Roger Smith 90 Anzac, Whangarei,  
 20-5x122 D Wadham 479/1 Whangaparua Rd, Stanmore Bay, Whangaparaoa,  
 20-5x131 Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,  
 20-5x140 Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,  
 20-5x151 Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,  
 20-5x160 Tony Case 8c Breckons Ave, Nawton, Hamilton,  
 20-5x169 Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,  
 20-5x178 Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,  
 20-5x187 Peter John Moore 54 Herbert Ave, Palmerston North,  
 20-5x196 Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,  
 20-5x205 Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,  
 20-5x213 JFC Johnson 15 Field St, Upper Hutt 5019,  
 20-5x222 W Obrien 133 Makino Rd, Fielding,  
 20-5x231 Paul M Penberthy Rd 5, Palmerston North,  
 20-5x306 Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,  
 20-5x315 Robert John Waters 32 Taft St, Brooklyn, Wellington,  
 20-5x324 Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,  
 20-5x334 Warren Harris 501 Wellwood Street, Hastings,  
 20-5x343 John Stuart P O Box 1718, Palmerston North,  
 20-5x352 Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,  
 20-5x361 Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,  
 20-5x370 Graham Barton 82 Wairoa Rd, Devonport, Auckland,  
 20-5x379 James Percival Rowe 100 Totara Close, Thames,  
 20-5x388 K McVie 18 Grigor St, Brockville, Dunedin 9011,  
 20-5x397 Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,  
 20-5x406 Phillip King P O Box 126, Hamilton,  
 20-5x415 Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,  
 20-5x424 Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,  
 20-5x434 James Charles Pye 63 Thackeray St, Upper Hutt 5018,  
 20-5x471 Brian Heywood P O Box 3120, Greerton, Tauranga 3142,  
 20-5x480 J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,  
 20-5x489 I M Sexton 10 Fair Oaks, Pukekohe,  
 20-5x498 J M Seakins 64 Parr Tce, Milford, North Shore City,  
 20-5x507 R A Brown 23 Valley Rd, Te Puke,  
 20-5x516 Hugh Gordon Cooper 5 Graham Place, Tauranga,  
 20-5x537 David G King 11 Salmond Place, Hamilton 3204,  
 20-5x546 Nigel Goldstone PO Box 351, Drury, Papakura,  
 20-5x555 P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,  
 20-5x564 The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,  
 20-5x573 James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,  
 20-5x582 Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,  
 20-5x591 Peter Pohl 58 Norton Park Ave, Lower Hutt,  
 20-5x600 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400,  
 20-5x609 Colin Hulse Ness Rd, RD 2 Kerikeri,

20-5x618 John Andrews 68 Khandallah Rd, Wellington,  
 20-5x627 Stanley Barnes 31 Brooklands Road, Nelson 7010,  
 20-5x636 Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,  
 20-5x645 Dr John R L Walker 19 Athol Tce, Christchurch,  
 20-5x654 Robert John deBurgh 39 Seddon St, Feilding  
 20-5x1150 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,

20-6 Allow antennas and their supporting structures mounted on buildings to a maximum height of 18 m.

**Further Submissions**

**Support**

20-6x6 P W Dent P O Box 7033, Tikipunga, Whangarei,  
 20-6x15 Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,  
 20-6x24 John F G Bell 34 Layton Rd, Whangaparaoa 0930,  
 20-6x33 Maurice Bowman 10 Puriri St, Takapuna, North Shore City,  
 20-6x42 Charles Malcolm George Moates 892 SH 14, Maungatapere,  
 20-6x51 Jeff King 169 Carroll St, City Rise, Dunedin 9016,  
 20-6x60 Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,  
 20-6x69 Vern Morris 1/1 Castlemaine Close, Manukau 2016,  
 20-6x78 David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,  
 20-6x87 Alfred George Kennedy 116 Wade River Rd, Arkles Bay,  
 20-6x96 A N Marsden 4b Rosario Crescent, Red Beach, Orewa,  
 20-6x105 Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,  
 20-6x114 Roger Smith 90 Anzac, Whangarei,  
 20-6x123 D Wadham 479/1 Whangaparaoa Rd, Stanmore Bay, Whangaparaoa,  
 20-6x132 Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,  
 20-6x141 Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,  
 20-6x152 Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,  
 20-6x161 Tony Case 8c Breckons Ave, Nawton, Hamilton,  
 20-6x170 Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,  
 20-6x179 Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,  
 20-6x188 Peter John Moore 54 Herbert Ave, Palmerston North,  
 20-6x197 Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,  
 20-6x206 Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,  
 20-6x214 JFC Johnson 15 Field St, Upper Hutt 5019,  
 20-6x223 W O'Brien 133 Makino Rd, Fielding,  
 20-6x232 Paul M Penberthy Rd 5, Palmerston North,  
 20-6x307 Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,  
 20-6x316 Robert John Waters 32 Taft St, Brooklyn, Wellington,  
 20-6x325 Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,  
 20-6x335 Warren Harris 501 Wellwood Street, Hastings,  
 20-6x344 John Stuart P O Box 1718, Palmerston North,  
 20-6x353 Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,  
 20-6x362 Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,  
 20-6x371 Graham Barton 82 Wairoa Rd, Devonport, Auckland,  
 20-6x380 James Percival Rowe 100 Totara Close, Thames,  
 20-6x389 K McVie 18 Grigor St, Brockville, Dunedin 9011,  
 20-6x398 Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,  
 20-6x407 Phillip King P O Box 126, Hamilton,  
 20-6x416 Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,  
 20-6x425 Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,  
 20-6x435 James Charles Pye 63 Thackeray St, Upper Hutt 5018,  
 20-6x472 Brian Heywood P O Box 3120, Greerton, Tauranga 3142,  
 20-6x481 J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,  
 20-6x490 I M Sexton 10 Fair Oaks, Pukekohe,  
 20-6x499 J M Seakins 64 Parr Tce, Milford, North Shore City,  
 20-6x508 R A Brown 23 Valley Rd, Te Puke,  
 20-6x517 Hugh Gordon Cooper 5 Graham Place, Tauranga,  
 20-6x538 David G King 11 Salmond Place, Hamilton 3204,  
 20-6x547 Nigel Goldstone PO Box 351, Drury, Papakura,  
 20-6x556 P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,  
 20-6x565 The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,  
 20-6x574 James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,  
 20-6x583 Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,  
 20-6x592 Peter Pohl 58 Norton Park Ave, Lower Hutt,  
 20-6x601 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400,  
 20-6x610 Colin Hulse Ness Rd, RD 2 Kerikeri,  
 20-6x619 John Andrews 68 Khandallah Rd, Wellington,  
 20-6x628 Stanley Barnes 31 Brooklands Road, Nelson 7010,  
 20-6x637 Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,  
 20-6x646 Dr John R L Walker 19 Athol Tce, Christchurch,  
 20-6x655 Robert John deBurgh 39 Seddon St, Feilding,  
 20-6x1151 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,

20-7 Remove the application of height control planes to amateur radio antennas and their supporting structures.

20-7x7 P W Dent P O Box 7033, Tikipunga, Whangarei,  
 20-7x16 Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,  
 20-7x25 John F G Bell 34 Layton Rd, Whangaparaoa 0930,  
 20-7x34 Maurice Bowman 10 Puriri St, Takapuna, North Shore City,  
 20-7x43 Charles Malcolm George Moates 892 SH 14, Maungatapere,  
 20-7x52 Jeff King 169 Carroll St, City Rise, Dunedin 9016,  
 20-7x61 Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,

20-7x70	Vern Morris 1/1 Castlemaine Close, Manukau 2016,
20-7x79	David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,
20-7x88	Alfred George Kennedy 116 Wade River Rd, Arkles Bay,
20-7x97	A N Marsden 4b Rosario Crescent, Red Beach, Orewa,
20-7x106	Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,
20-7x115	Roger Smith 90 Anzac, Whangarei,
20-7x124	D Wadham 479/1 Whangaparua Rd, Stanmore Bay, Whangaparaoa,
20-7x133	Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,
20-7x142	Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,
20-7x153	Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,
20-7x162	Tony Case 8c Breckons Ave, Nawton, Hamilton,
20-7x171	Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,
20-7x180	Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,
20-7x189	Peter John Moore 54 Herbert Ave, Palmerston North,
20-7x198	Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,
20-7x207	Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,
20-7x215	JFC Johnson 15 Field St, Upper Hutt 5019,
20-7x224	W O'Brien 133 Makino Rd, Fielding,
20-7x233	Paul M Penberthy Rd 5, Palmerston North,
20-7x308	Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,
20-7x317	Robert John Waters 32 Taft St, Brooklyn, Wellington,
20-7x326	Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,
20-7x336	Warren Harris 501 Wellwood Street, Hastings,
20-7x345	John Stuart P O Box 1718, Palmerston North,
20-7x354	Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-7x363	Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-7x372	Graham Barton 82 Wairoa Rd, Devonport, Auckland,
20-7x381	James Percival Rowe 100 Totara Close, Thames,
20-7x390	K McVie 18 Grigor St, Brockville, Dunedin 9011,
20-7x399	Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,
20-7x408	Phillip King P O Box 126, Hamilton,
20-7x417	Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,
20-7x426	Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,
20-7x436	James Charles Pye 63 Thackeray St, Upper Hutt 5018,
20-7x473	Brian Heywood P O Box 3120, Greerton, Tauranga 3142,
20-7x482	J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,
20-7x491	I M Sexton 10 Fair Oaks, Pukekohe,
20-7x500	J M Seakins 64 Parr Tce, Milford, North Shore City,
20-7x509	R A Brown 23 Valley Rd, Te Puke,
20-7x518	Hugh Gordon Cooper 5 Graham Place, Tauranga,
20-7x539	David G King 11 Salmond Place, Hamilton 3204,
20-7x548	Nigel Goldstone PO Box 351, Drury, Papakura,
20-7x557	P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,
20-7x566	The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,
20-7x575	James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,
20-7x584	Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,
20-7x593	Peter Pohl 58 Norton Park Ave, Lower Hutt,
20-7x602	Geoff and Bev Gillman 6 Boyd St, Rangiora 7400,
20-7x611	Colin Hulse Ness Rd, RD 2 Kerikeri,
20-7x620	John Andrews 68 Khandallah Rd, Wellington,
20-7x629	Stanley Barnes 31 Brooklands Road, Nelson 7010,
20-7x638	Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,
20-7x647	Dr John R L Walker 19 Athol Tce, Christchurch,
20-7x656	Robert John deBurgh 39 Seddon St, Feilding,
20-7x1152	J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216
20-8	Reduce the setbacks to simple pole structures to 0.5m on all boundaries.

### **Further Submissions**

#### **Support**

20-8x8	P W Dent P O Box 7033, Tikipunga, Whangarei,
20-8x17	Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,
20-8x26	John F G Bell 34 Layton Rd, Whangaparaoa 0930,
20-8x35	Maurice Bowman 10 Puriri St, Takapuna, North Shore City,
20-8x44	Charles Malcolm George Moates 892 SH 14, Maungatapere,
20-8x53	Jeff King 169 Carroll St, City Rise, Dunedin 9016,
20-8x62	Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,
20-8x71	Vern Morris 1/1 Castlemaine Close, Manukau 2016,
20-8x80	David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,
20-8x89	Alfred George Kennedy 116 Wade River Rd, Arkles Bay,
20-8x98	A N Marsden 4b Rosario Crescent, Red Beach, Orewa,
20-8x107	Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,
20-8x116	Roger Smith 90 Anzac, Whangarei,
20-8x125	D Wadham 479/1 Whangaparua Rd, Stanmore Bay, Whangaparaoa,
20-8x134	Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,
20-8x143	Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,
20-8x154	Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,
20-8x163	Tony Case 8c Breckons Ave, Nawton, Hamilton,
20-8x172	Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,
20-8x181	Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,
20-8x190	Peter John Moore 54 Herbert Ave, Palmerston North,
20-8x199	Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,
20-8x208	Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,

20-8x216	JFC Johnson 15 Field St, Upper Hutt 5019,
20-8x225	W Obrien 133 Makino Rd, Fielding,
20-8x234	Paul M Penberthy Rd 5, Palmerston North,
20-8x309	Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,
20-8x318	Robert John Waters 32 Taft St, Brooklyn, Wellington,
20-8x327	Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,
20-8x337	Warren Harris 501 Wellwood Street, Hastings,
20-8x346	John Stuart P O Box 1718, Palmerston North,
20-8x355	Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-8x364	Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-8x373	Graham Barton 82 Wairoa Rd, Devonport, Auckland,
20-8x382	James Percival Rowe 100 Totara Close, Thames,
20-8x391	K McVie 18 Grigor St, Brockville, Dunedin 9011,
20-8x400	Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,
20-8x409	Phillip King P O Box 126, Hamilton,
20-8x418	Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,
20-8x427	Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,
20-8x437	James Charles Pye 63 Thackeray St, Upper Hutt 5018,
20-8x474	Brian Heywood P O Box 3120, Greerton, Tauranga 3142,
20-8x483	J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,
20-8x492	I M Sexton 10 Fair Oaks, Pukekohe,
20-8x501	J M Seakins 64 Parr Tce, Milford, North Shore City,
20-8x510	R A Brown 23 Valley Rd, Te Puke,
20-8x519	Hugh Gordon Cooper 5 Graham Place, Tauranga,
20-8x540	David G King 11 Salmond Place, Hamilton 3204,
20-8x549	Nigel Goldstone PO Box 351, Drury, Papakura,
20-8x558	P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,
20-8x567	The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,
20-8x576	James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,
20-8x585	Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,
20-8x594	Peter Pohl 58 Norton Park Ave, Lower Hutt,
20-8x603	Geoff and Bev Gillman 6 Boyd St, Rangiora 7400,
20-8x612	Colin Hulse Ness Rd, RD 2 Kerikeri,
20-8x621	John Andrews 68 Khandallah Rd, Wellington,
20-8x630	Stanley Barnes 31 Brooklands Road, Nelson 7010,
20-8x639	Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,
20-8x648	Dr John R L Walker 19 Athol Tce, Christchurch,
20-8x657	Robert John deBurgh 39 Seddon St, Feilding
20-8x1153	J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,

20-9 Reduce the setbacks for mast structures to 1.5m on all boundaries.

### **Further Submissions**

#### **Support**

20-9x9	P W Dent P O Box 7033, Tikipunga, Whangarei,
20-9x18	Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,
20-9x27	John F G Bell 34 Layton Rd, Whangaparaoa 0930,
20-9x36	Maurice Bowman 10 Puriri St, Takapuna, North Shore City,
20-9x45	Charles Malcolm George Moates 892 SH 14, Maungatapere,
20-9x54	Jeff King 169 Carroll St, City Rise, Dunedin 9016,
20-9x63	Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,
20-9x72	Vern Morris 1/1 Castlemaine Close, Manukau 2016,
20-9x81	David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,
20-9x90	Alfred George Kennedy 116 Wade River Rd, Arkles Bay,
20-9x99	A N Marsden 4b Rosario Crescent, Red Beach, Orewa,
20-9x108	Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,
20-9x117	Roger Smith 90 Anzac, Whangarei,
20-9x126	D Wadham 479/1 Whangaparua Rd, Stanmore Bay, Whangaparaoa,
20-9x135	Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,
20-9x144	Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,
20-9x155	Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,
20-9x164	Tony Case 8c Breckons Ave, Newton, Hamilton,
20-9x173	Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,
20-9x182	Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,
20-9x191	Peter John Moore 54 Herbert Ave, Palmerston North,
20-9x200	Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,
20-9x217	JFC Johnson 15 Field St, Upper Hutt 5019,
20-9x226	W Obrien 133 Makino Rd, Fielding,
20-9x235	Paul M Penberthy Rd 5, Palmerston North,
20-9x310	Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,
20-9x319	Robert John Waters 32 Taft St, Brooklyn, Wellington,
20-9x328	Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,
20-9x329	Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,
20-9x338	Warren Harris 501 Wellwood Street, Hastings,
20-9x347	John Stuart P O Box 1718, Palmerston North,
20-9x356	Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-9x365	Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,
20-9x374	Graham Barton 82 Wairoa Rd, Devonport, Auckland,
20-9x383	James Percival Rowe 100 Totara Close, Thames,
20-9x392	K McVie 18 Grigor St, Brockville, Dunedin 9011,
20-9x401	Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,
20-9x410	Phillip King P O Box 126, Hamilton,
20-9x419	Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,

- 20-9x428 Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,  
 20-9x438 James Charles Pye 63 Thackeray St, Upper Hutt 5018,  
 20-9x475 Brian Heywood P O Box 3120, Greerton, Tauranga 3142,  
 20-9x484 J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,  
 20-9x493 I M Sexton 10 Fair Oaks, Pukekohe,  
 20-9x502 J M Seakins 64 Parr Tce, Milford, North Shore City,  
 20-9x511 R A Brown 23 Valley Rd, Te Puke,  
 20-9x520 Hugh Gordon Cooper 5 Graham Place, Tauranga,  
 20-9x541 David G King 11 Salmond Place, Hamilton 3204,  
 20-9x550 Nigel Goldstone PO Box 351, Drury, Papakura,  
 20-9x559 P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,  
 20-9x568 The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,  
 20-9x577 James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,  
 20-9x586 Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,  
 20-9x595 Peter Pohl 58 Norton Park Ave, Lower Hutt,  
 20-9x604 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400,  
 20-9x613 Colin Hulse Ness Rd, RD 2 Kerikeri,  
 20-9x622 John Andrews 68 Khandallah Rd, Wellington,  
 20-9x631 Stanley Barnes 31 Brooklands Road, Nelson 7010,  
 20-9x640 Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,  
 20-9x649 Dr John R L Walker 19 Athol Tce, Christchurch,  
 20-9x658 Robert John deBurgh 39 Seddon St, Feilding  
 20-9x1154 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,
- 20-10 Allow amateur radio communication dish antennas to a maximum height of 4 m, provided they do not exceed 5m in diameter.

### **Further Submissions**

#### **Support**

- 20-10x727 John Andrews 68 Khandallah Rd, Wellington,  
 20-10x733 David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,  
 20-10x739 Stanley Barnes 31 Brooklands Road, Nelson 7010,  
 20-10x745 Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,  
 20-10x751 Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,  
 20-10x757 Maurice Bowman 10 Puriri St, Takapuna, North Shore City,  
 20-10x763 R A Brown 23 Valley Rd, Te Puke,  
 20-10x769 Tony Case 8c Breckons Ave, Nawton, Hamilton,  
 20-10x775 Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,  
 20-10x781 Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,  
 20-10x787 Robert John deBurgh 39 Seddon St, Feilding,  
 20-10x793 Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,  
 20-10x799 J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,  
 20-10x805 Nigel Goldstone PO Box 351, Drury, Papakura,  
 20-10x811 Warren Harris 501 Wellwood Street, Hastings,  
 20-10x817 Brian Heywood P O Box 3120, Greerton, Tauranga 3142,  
 20-10x823 JFC Johnson 15 Field St, Upper Hutt 5019,  
 20-10x829 Phillip King P O Box 126, Hamilton,  
 20-10x835 James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,  
 20-10x841 Peter John Moore 54 Herbert Ave, Palmerston North,  
 20-10x847 The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,  
 20-10x853 Paul M Penberthy Rd 5, Palmerston North,  
 20-10x859 Peter Pohl 58 Norton Park Ave, Lower Hutt,  
 20-10x865 Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,  
 20-10x871 James Charles Pye 63 Thackeray St, Upper Hutt 5018,  
 20-10x877 James Percival Rowe 100 Totara Close, Thames,  
 20-10x883 J M Seakins 64 Parr Tce, Milford, North Shore City,  
 20-10x889 Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,  
 20-10x895 I M Sexton 10 Fair Oaks, Pukekohe,  
 20-10x901 Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,  
 20-10x907 Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,  
 20-10x913 Robert John Waters 32 Taft St, Brooklyn, Wellington,  
 20-10x919 P W Dent P O Box 7033, Tikipunga, Whangarei,  
 20-10x925 John F G Bell 34 Layton Rd, Whangaparaoa 0930,  
 20-10x931 Charles Malcolm George Moates 892 SH 14, Maungatapere,  
 20-10x937 Jeff King 169 Carroll St, City Rise, Dunedin 9016,  
 20-10x943 Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,  
 20-10x949 Vern Morris 1/1 Castlemaine Close, Manukau 2016,  
 20-10x955 Alfred George Kennedy 116 Wade River Rd, Arkles Bay,  
 20-10x961 A N Marsden 4b Rosario Crescent, Red Beach, Orewa,  
 20-10x967 Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,  
 20-10x973 Roger Smith 90 Anzac, Whangarei,  
 20-10x979 D Wadham 479/1 Whangaparaoa Rd, Stanmore Bay, Whangaparaoa,  
 20-10x985 Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,  
 20-10x991 Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,  
 20-10x997 Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,  
 20-10x1003 Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,  
 20-10x1009 Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,  
 20-10x1015 W O'Brien 133 Makino Rd, Fielding,  
 20-10x1021 Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,  
 20-10x1027 John Stuart P O Box 1718, Palmerston North,  
 20-10x1033 Graham Barton 82 Wairoa Rd, Devonport, Auckland,  
 20-10x1039 K McVie 18 Grigor St, Brockville, Dunedin 9011,  
 20-10x1045 Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,

20-10x1051 Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,  
20-10x1057 Hugh Gordon Cooper 5 Graham Place, Tauranga,  
20-10x1063 David G King 11 Salmond Place, Hamilton 3204,  
20-10x1069 P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,  
20-10x1075 Colin Hulse Ness Rd, RD 2 Kerikeri,  
20-10x1081 Dr John R L Walker 19 Athol Tce, Christchurch,  
20-10x1087 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400  
20-10x1155 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,

20-11 Allow amateur radio communication dish antennas to a maximum height of 12 m, provided they do not exceed 1.2m in diameter.

#### **Further Submissions**

##### **Support**

20-11x728 John Andrews 68 Khandallah Rd, Wellington,  
20-11x734 David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,  
20-11x740 Stanley Barnes 31 Brooklands Road, Nelson 7010,  
20-11x746 Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,  
20-11x752 Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,  
20-11x758 Maurice Bowman 10 Puriri St, Takapuna, North Shore City,  
20-11x764 R A Brown 23 Valley Rd, Te Puke,  
20-11x770 Tony Case 8c Breckons Ave, Nawton, Hamilton,  
20-11x776 Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,  
20-11x782 Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,  
20-11x788 Robert John deBurgh 39 Seddon St, Feilding,  
20-11x794 Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,  
20-11x800 J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,  
20-11x806 Nigel Goldstone PO Box 351, Drury, Papakura,  
20-11x812 Warren Harris 501 Wellwood Street, Hastings,  
20-11x818 Brian Heywood P O Box 3120, Greerton, Tauranga 3142,  
20-11x824 JFC Johnson 15 Field St, Upper Hutt 5019,  
20-11x830 Phillip King P O Box 126, Hamilton,  
20-11x836 James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,  
20-11x842 Peter John Moore 54 Herbert Ave, Palmerston North,  
20-11x848 The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,  
20-11x854 Paul M Penberthy Rd 5, Palmerston North,  
20-11x860 Peter Pohl 58 Norton Park Ave, Lower Hutt,  
20-11x866 Neil Walter Prebble 2/82 Knights Rd, Rothersey Bay, North Shore City,  
20-11x872 James Charles Pye 63 Thackeray St, Upper Hutt 5018,  
20-11x878 James Percival Rowe 100 Totara Close, Thames,  
20-11x884 J M Seakins 64 Parr Tce, Milford, North Shore City,  
20-11x890 Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,  
20-11x896 I M Sexton 10 Fair Oaks, Pukekohe,  
20-11x902 Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,  
20-11x908 Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,  
20-11x914 Robert John Waters 32 Taft St, Brooklyn, Wellington,  
20-11x920 P W Dent P O Box 7033, Tikipunga, Whangarei,  
20-11x926 John F G Bell 34 Layton Rd, Whangaparaoa 0930,  
20-11x932 Charles Malcolm George Moates 892 SH 14, Maungatapere,  
20-11x938 Jeff King 169 Carroll St, City Rise, Dunedin 9016,  
20-11x944 Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,  
20-11x950 Vern Morris 1/1 Castlemaine Close, Manukau 2016,  
20-11x956 Alfred George Kennedy 116 Wade River Rd, Arkles Bay,  
20-11x962 A N Marsden 4b Rosario Crescent, Red Beach, Orewa,  
20-11x968 Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,  
20-11x974 Roger Smith 90 Anzac, Whangarei,  
20-11x980 D Wadham 479/1 Whangaparaoa Rd, Stanmore Bay, Whangaparaoa,  
20-11x986 Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,  
20-11x992 Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,  
20-11x998 Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,  
20-11x1004 Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,  
20-11x1010 Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,  
20-11x1016 W Obrien 133 Makino Rd, Fielding,  
20-11x1022 Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,  
20-11x1028 John Stuart P O Box 1718, Palmerston North,  
20-11x1034 Graham Barton 82 Wairoa Rd, Devonport, Auckland,  
20-11x1040 K McVie 18 Grigor St, Brockville, Dunedin 9011,  
20-11x1046 Harold A Boyd Apt 325 Fairview Village, 21 Fairview Ave, Albany,  
20-11x1052 Cameron Neill Mumford 31 Hiwihau Place, Glenfield, Auckland,  
20-11x1058 Hugh Gordon Cooper 5 Graham Place, Tauranga,  
20-11x1064 David G King 11 Salmond Place, Hamilton 3204,  
20-11x1070 P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,  
20-11x1076 Colin Hulse Ness Rd, RD 2 Kerikeri,  
20-11x1082 Dr John R L Walker 19 Athol Tce, Christchurch,  
20-11x1088 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400  
20-11x1156 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,

20-12 No limit to the number or antennas installed on any site.

#### **Further Submissions**

##### **Support**

20-12x729 John Andrews 68 Khandallah Rd, Wellington,  
20-12x735 David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,  
20-12x741 Stanley Barnes 31 Brooklands Road, Nelson 7010,



20-12x747 Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,  
 20-12x753 Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,  
 20-12x759 Maurice Bowman 10 Puriri St, Takapuna, North Shore City,  
 20-12x765 R A Brown 23 Valley Rd, Te Puke,  
 20-12x771 Tony Case 8c Breckons Ave, Nawton, Hamilton,  
 20-12x777 Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,  
 20-12x783 Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,  
 20-12x789 Robert John deBurgh 39 Seddon St, Feilding,  
 20-12x795 Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,  
 20-12x801 J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,  
 20-12x807 Nigel Goldstone PO Box 351, Drury, Papakura,  
 20-12x813 Warren Harris 501 Wellwood Street, Hastings,  
 20-12x819 Brian Heywood P O Box 3120, Greerton, Tauranga 3142,  
 20-12x825 JFC Johnson 15 Field St, Upper Hutt 5019,  
 20-12x831 Phillip King P O Box 126, Hamilton,  
 20-12x837 James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,  
 20-12x843 Peter John Moore 54 Herbert Ave, Palmerston North,  
 20-12x849 The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,  
 20-12x855 Paul M Penberthy Rd 5, Palmerston North,  
 20-12x861 Peter Pohl 58 Norton Park Ave, Lower Hutt,  
 20-12x867 Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,  
 20-12x873 James Charles Pye 63 Thackeray St, Upper Hutt 5018,  
 20-12x879 James Percival Rowe 100 Totara Close, Thames,  
 20-12x885 J M Seakins 64 Parr Tce, Milford, North Shore City,  
 20-12x891 Jasper Robert Sewell 57 Hine Rd, Waimiomata 5014,  
 20-12x897 I M Sexton 10 Fair Oaks, Pukekohe,  
 20-12x903 Derek Stansfield 3 Johnston Pl, Welcome Bay, Tauranga,  
 20-12x909 Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,  
 20-12x915 Robert John Waters 32 Taft St, Brooklyn, Wellington,  
 20-12x921 P W Dent P O Box 7033, Tikipunga, Whangarei,  
 20-12x927 John F G Bell 34 Layton Rd, Whangaparaoa 0930,  
 20-12x933 Charles Malcolm George Moates 892 SH 14, Maungatapere,  
 20-12x939 Jeff King 169 Carroll St, City Rise, Dunedin 9016,  
 20-12x945 Leslie R Mellars 3a Arran Rd, Browns Bay, North Shore City,  
 20-12x951 Vern Morris 1/1 Castlemaine Close, Manukau 2016,  
 20-12x957 Alfred George Kennedy 116 Wade River Rd, Arkles Bay,  
 20-12x963 A N Marsden 4b Rosario Crescent, Red Beach, Orewa,  
 20-12x969 Christopher Billing 16 Dabell Rd, Stanmore Bay, Whangaparaoa,  
 20-12x975 Roger Smith 90 Anzac, Whangarei,  
 20-12x981 D Wadham 479/1 Whangaparaoa Rd, Stanmore Bay, Whangaparaoa,  
 20-12x987 Andrew Cooke 82a Wilkyn Boyes Pl, Read Beach,  
 20-12x993 Liana Goodall 21 Elan Place, Stanmore Bay, Whangaparaoa,  
 20-12x999 Barry J Ward 44 Cordyline Rd, Rd 5 Tuakau Port Waikato,  
 20-12x1005 Jason Wallace 16 Oxford Rd, Springvale, Wanganui 4501,  
 20-12x1011 Mathew Thomas Mawston 11 Churchill Crescent, Wanganui,  
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 20-12x1023 Tony Terezow 25 Magnolia Grove, Maungaraki, Lower Hutt 5010,  
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 20-12x1071 P L Smith 56 Hobsonville Rd, West Harbour, 0618 Auckland,  
 20-12x1077 Colin Hulse Ness Rd, RD 2 Kerikeri,  
 20-12x1083 Dr John R L Walker 19 Athol Tce, Christchurch,  
 20-12x1089 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400  
 20-12x1157 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,

20-13 Allow self assessment and emission field testing by amateur radio operators.

### **Further Submissions**

#### **Support**

20-13x730 John Andrews 68 Khandallah Rd, Wellington,  
 20-13x736 David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,  
 20-13x742 Stanley Barnes 31 Brooklands Road, Nelson 7010,  
 20-13x748 Ralph Frederick Boshier 30 Ayton Dr, Glenfield, North Shore City,  
 20-13x754 Rosemary Boshier 30 Ayton Dr, Glenfield, North Shore City,  
 20-13x760 Maurice Bowman 10 Puriri St, Takapuna, North Shore City,  
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 20-13x778 Robert Stanley Cole 46 Walton Park Ave, Fairfield, Dunedin,  
 20-13x784 Rory Deans 1382 Tramway Rd, Dunsandel, Rd 2 Leeston,  
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 20-13x796 Heinrich Falkner 8 Kapai Road, Devonport, North Shore City,  
 20-13x802 J C Freeman 3/7 Belle Verde Dr, Mairangi Bay, North Shore City,  
 20-13x808 Nigel Goldstone PO Box 351, Drury, Papakura,  
 20-13x814 Warren Harris 501 Wellwood Street, Hastings,  
 20-13x820 Brian Heywood P O Box 3120, Greerton, Tauranga 3142,  
 20-13x826 JFC Johnson 15 Field St, Upper Hutt 5019,  
 20-13x832 Phillip King P O Box 126, Hamilton,  
 20-13x838 James Alexander Meachen 1/25 Coronation Rd, Hillcrest, North Shore City,

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 20-13x850 The NZ Association of Radio Transmitters P O Box 40525, Upper Hutt,  
 20-13x856 Paul M Penberthy Rd 5, Palmerston North,  
 20-13x862 Peter Pohl 58 Norton Park Ave, Lower Hutt,  
 20-13x868 Neil Walter Prebble 2/82 Knights Rd, Rothesay Bay, North Shore City,  
 20-13x874 James Charles Pye 63 Thackeray St, Upper Hutt 5018,  
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 20-13x910 Colin Stephens 56 Karaka St, Takapuna 0622, North Shore City,  
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 20-13x958 Alfred George Kennedy 116 Wade River Rd, Arkles Bay,  
 20-13x964 A N Marsden 4b Rosario Crescent, Red Beach, Orewa,  
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 20-13x1090 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400  
 20-13x1158 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,

20-14 Amend the definitions of Aerial and Antenna to the following;

'The arrangement of conductors, usually wires, rods, or tubes, which form the device in which radio frequency electromagnetic energy is generated from or converted to electrical energy for the purposes of radio communication.'

This definition includes the linking components of tubes or rods which position the rods, tubes and wires, and the dish in a dish antenna, and any shrouds required for weather protection.

The antenna is not subject to specific size limits. Mountings are part of the antenna unit.'

#### **Further Submissions**

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 20-14x737 David Anthony Armet 66 Fitzwilliam Dr, Torbay, North Shore City,  
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 20-14x1091 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400  
 20-14x1159 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,
- 20-15 Create a new definition of Antenna Supporting Structures to define those poles, masts and towers and structural elements which support antennas and aerials, and which may be subject to specific structural design.

#### **Further Submissions**

##### **Support**

- 20-15x732 John Andrews 68 Khandallah Rd, Wellington,  
 20-15x738 David Anthony Arnet 66 Fitzwilliam Dr, Torbay, North Shore City,  
 20-15x744 Stanley Barnes 31 Brooklands Road, Nelson 7010,  
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20-15x1092 Geoff and Bev Gillman 6 Boyd St, Rangiora 7400  
20-15x1160 J Sutton Burtenshaw 33a Galloway Street, Hamilton 3216,

**Submitter** M D Newman

30 Nikau St, Wanganui

172-1 to 53 See submission 69-1 to 53

**Submitter** Peter Smith North Shore Amateur Radio Club Inc

56 Hobsonville Rd, West Harbour Waitakere 0816

229-1 Oppose 14.5.1.1 Report required before commencing activity, as the power limits for radio frequency fields are prescribed for licence holders by MED.

229-2 Oppose 14.5.1.2(b)(i) Radio frequency fields as it is contrary to established custom and practice and is in breach of the Human Rights Act.

229-3 Oppose the proposal in 14.5.3.2 (a)(i) Antennas to limit antenna height to 2m above the building to which it is attached.

229-4 Oppose the restriction in 14.5.3.2 (a)(ii) limiting Antenna numbers to two per residential unit.

229-5 Oppose the proposal in 14.5.3.2 (b)(ii) regarding Placement of Antennas as any restriction is likely to impede communication for amateur radio UHF installations that rely on line of sight communication to a repeater station.

229-6 Oppose 14.7.1.6 Restrictions and Assessment Criteria for Aerials, Antenna and Masts, as it restricts experimentation which is one of the primary function of the amateur radio service.

**Submitter** Pete Thomas Water Services, NSCC

Private Bag 93500, Takapuna

21-1 Oppose the depth limit of 1.5m for excavations for new construction works in S 9.4.1.1 e).

#### **Further Submissions**

##### **Support**

21-1x239 Vector Ltd P O Box 99882, Newmarket, Auckland,

**Submitter** David Keay North Shore Civil Defence Emergency Management

400 East Coast Rd, Mairangi Bay North Shore City

22-1 Exempt the North Shore City Civil Defence Radio Network from the proposed plan change. North Shore City Council is compelled under S 17 and 64 of the Civil Defence Emergency Management (CDEM) Act 2002 to provide an appropriate organisational structure for effective civil defence emergency management. NSCC has a radio network which is dependant on properly installed aerials and antennas. Radio hams are also important to this network and are built into the local CDEM Plan. The Council would be in breach of the CDEM obligations if this plan change proceeds in its current form.

22-2 Oppose 14.1 and in particular the inclusion of privately owned aerials and antennas in 'telecommunication networks'

22-3 Oppose Policy 14.3.2.9 as it encourages locating aerials on buildings as opposed to masts

22-4 Oppose Policy 14.3.2.11 as it tries to control the design and siting of equipment emitting radiofrequency radiation

22-5 Oppose Rule 14.4.2 as it sets out controls on network utilities

22-6 Oppose rules in Activity Table 14.1 that attempts to control radiofrequency fields emitted by activities

22-7 Oppose rules in Activity Table 14.1 that attempts to control aerials

22-8 Oppose rules in Activity Table 14.1 that attempt to control antennas

22-9 Oppose rules in Activity Table 14.1 that attempt to control masts

22-10 Oppose Rule 14.5.1.1 that requires report for activity emitting radio frequency fields or extremely low frequency electric and magnetic fields

22-11 Oppose the application of Rule 14.5.1.2 (requiring radiofrequency fields to comply with NZS 2772.1)

22-12 Oppose Rule 14.5.1.2(b)(i) (requiring independent monitoring of radio frequency fields)

22-13 Oppose Rule 14.5.1.2(b)(ii) (monitoring will take place at the applicant's cost)

22-14 Oppose Rule 14.5.1.2(b)(iii) (numbers of network utility operator's sites subject to monitoring)

22-15 Oppose Rule 14.5.1.3 (compliance of electric and magnetic fields with ICNIRP guidelines 1998)

22-16 Oppose 14.5.2.2 (requiring landscaping or screening of above ground structures)

22-17 Oppose 14.5.2.4 (all structures higher than 1.8m to comply with development controls)

22-18 Oppose 14.5.3.1.1i) (aerials no higher than 3m above attachment)

22-19 Oppose 14.5.3.1.1ii) (only two aerials per residential unit)

22-20 Oppose 14.5.3.1.1iii) (dimensions of aerials to be less than 3m)

- 22-21 Oppose 14.5.3.1.2i) (only one aerial per mast permitted)
- 22-22 Oppose 14.5.3.1.2ii) (dimensions of aerial to be 1m when attached to a mast)
- 22-23 Oppose 14.5.3.2.1a)i) (antenna not exceed point of attachment by more than 2 m)
- 22-24 Oppose 14.5.3.2.1a)ii) (no more than 2 antennas per residential unit)
- 22-25 Oppose 14.5.3.2.1a)iii) (no antennas closer than 1 m to boundary)
- 22-26 Oppose 14.5.3.2.1b)i) (antenna placement)
- 22-27 Oppose 14.5.3.2.1b)ii) (visibility of antenna)
- 22-28 Oppose 14.5.3.2.2a)i) (antennas in rural zones not greater than 3m above roof)
- 22-29 Oppose 14.5.3.2.2a)ii) (no more than one antenna attached to façade)
- 22-30 Oppose 14.5.3.2.2a)iii) (antennas subject to yard controls)
- 22-31 Oppose 14.5.3.2.2b)i) (antenna located below peak of roofline)
- 22-32 Oppose 14.5.3.2.2b)ii) (antenna should not be on front façade)
- 22-33 Oppose 14.5.3.3 (limits on height of masts)
- 22-34 Oppose 14.6.2.6 (reservation of control over matters to do with antennas and masts)
- 22-35 Oppose 14.7.1.6 (regarding aerial height, appearance and location on ridgelines)
- 22-36 Oppose 3.10.7.1 6 (requirement to furnish report regarding radiofrequency fields when activity proposed)
- 22-37 Oppose definition of 'Activity emitting radio frequency fields'
- 22-38 Oppose definition of 'Aerial' and the limitation of diameter of aerial to 80mm
- 22-39 Oppose definition of 'Antenna'
- 22-40 Oppose definition of 'Mast'
- 22-41 Oppose definition of 'Radio Communication'
- 22-42 Oppose definition of 'Network Utility' and inclusion of privately owned aerials and antennas

**Submitter** Andrew Nyhoff

38 Eversleigh Rd, Takapuna North Shore City

23-1 Support the requirement to place cables underground, and extend this requirement to existing cables.

23-2 New cell sites should be notified as they are ugly and potentially harmful.

#### **Further Submissions**

##### **Oppose**

23-1x240 Vector Ltd P O Box 99882, Newmarket, Auckland,

**Submitter** William Leonard Bruce Douglas The NZ Association of Radio Transmitters

P O Box 40525, Upper Hutt

173-1 to 53 See submission 69-1 to 53

**Submitter** David Obrien

P O Box 300293, Albany

174-1 to 53 See submission 69-1 to 53

**Submitter** Eric William Ockleston

B208/20 Napoleon Ave, Milford

175-1 to 53 See submission 69-1 to 53

**Submitter** I W Ogier Manawatu Amateur Radio Society

P O Box 1718, Palmerston North

176-1 to 53 See submission 69-1 to 53

**Submitter** William John Olsen Amateur Radio Emergency Communications

P O Box 29, Mosgier Dunedin

177-1 to 53 See submission 69-1 to 53

**Submitter** Edward Olson

42 Easton Park Pde, Glenfield North Shore City

24-1 The proposed restrictions on the numbers of antenna and aerials, antenna height and size, and mast height should be removed.

24-2 Oppose the proposals to test the equipment of amateur radio operators for radio frequency radiation.

**Submitter** Noel Orr

2/34 Prospect Tce, Milford North Shore City

56-1 Change the proposed controls on Radio Amateur aerials, antennas and masts

56-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

56-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** G D Owst

25-1 42 County Rd, Torbay North Shore City  
Oppose any restrictions on aerials that may be retrospective.

**Submitter** James Paltridge Manukau Radio Club  
3 Tutere Rd, Papatoetoe

178-1 to 53 See submission 69-1 to 53

**Submitter** R J Parkinson  
70 Vandeleur Ave, Birkdale North Shore City

179-1 to 53 See submission 69-1 to 53

**Submitter** Paul M Penberthy  
Rd 5, Palmerston North

180-1 to 53 See submission 69-1 to 53

**Submitter** Gavin Petrie  
64 Sunnyhills Ave, Glenview Hamilton 3206

181-1 to 53 See submission 69-1 to 53

**Submitter** Peter Pohl  
58 Norton Park Ave, Lower Hutt

182-1 to 53 See submission 69-1 to 53

**Submitter** John Frederick Powell North Shore Branch, NZ Association of Radio  
47 Becroft Dr, Forrest Hill North Shore City

183-1 to 53 See submission 69-1 to 53

**Submitter** James Charles Pye  
63 Thackeray St, Upper Hutt 5018

184-1 to 53 See submission 69-1 to 53

**Submitter** James Thorpe Pye  
63 Thackeray St, Upper Hutt 5018

185-1 to 53 See submission 69-1 to 53

**Submitter** Nawzad Raghieb  
82 Caribbean Dr, Glenfield North Shore City

186-1 to 53 See submission 69-1 to 53

**Submitter** Lee Rapson  
29 Princeton Pde, Albany North Shore City

187-1 to 53 See submission 69-1 to 53

**Submitter** Geoffrey Reed  
510 Great South Rd, Papakura

58-1 Change the proposed controls on Radio Amateur aerials, antennas and masts

58-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

58-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** John M Reinke  
92 Neill St, Hornby Christchurch 8004

188-1 to 53 See submission 69-1 to 53

**Submitter** Bill Richardson  
57 Esk St, Tauranga 3112

189-1 to 53 See submission 69-1 to 53

**Submitter** D A R Rogan  
182 Gills Rd, Albany North Shore City

190- to 53 See submission 69-1 to 53

**Submitter** BW Rous  
56 Tamahere Dr, Glenfield North Shore City

191-1 to 53 See submission 69-1 to 53

**Submitter** James Percival Rowe Amateur Radio Emergency Communications  
100 Totara Close, Thames

192-1 to 53 See submission 69-1 to 53

**Submitter** S J Rowe Te Puke Amateur Radio Club Inc C/- c/o SJ Rowe

223 State Highway 33, Rd 9 Te Puke

59-1 Change the proposed controls on Radio Amateur aerials, antennas and masts

59-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

59-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** Peter Sandlant The North Shore Amateur Radio Club

17 Mayfair Cres, Mairangi Bay North Shore City

193-1 to 53 See submission 69-1 to 53

**Submitter** Bryan C Sando Electro Dynamics Ltd

P O Box 31794, Milford

194-1 to 53 See submission 69-1 to 53

**Submitter** Clyde Hugh Scott

12 Bridge View Rd, Birkenhead North Shore City

60-1 Support the Plan change, particularly the clauses on undergrounding above ground lines.

#### **Further Submissions**

##### **Oppose**

60-1x298 Vector Ltd P O Box 99882, Newmarket, Auckland,

**Submitter** J M Seakins

64 Parr Tce, Milford North Shore City

195-1 to 53 See submission 69-1 to 53

**Submitter** Vernon C A Sears

11 Roderick St, Otumoetai Tauranga

196-1 to 53 See submission 69-1 to 53

**Submitter** Jasper Robert Sewell Branch 18 NZART

57 Hine Rd, Waimiomata 5014

197-1 to 53 See submission 69-1 to 53

**Submitter** I M Sexton

10 Fair Oaks, Pukekohe

198-1 to 53 See submission 69-1 to 53

**Submitter** John Shaw

c/- Post Office, Paerata Pukekohe

61-1 Change the proposed controls on Radio Amateur aerials, antennas and masts

61-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

61-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** Michael John Sheffield

176 Albany Highway, Albany North Shore City

199-1 to 53 See submission 69-1 to 53

**Submitter** E R Shepherd

293 Fenton St, Rotorua

200-1 to 53 See submission 69-1 to 53

**Submitter** Peter Smith The North Shore Branch of the NZ Association of Radio Transmitters Inc

400 East Coast Rd, Mairangi Bay North Shore City

26-1 Oppose S14.5.3.1.1 ii) to ensure that licensed radio amateurs are not restricted to two aerials per residential unit.

#### **Further Submissions**

##### **Support**

26-1x666 M D Newman 30 Nikau St, Wanganui,

26-2 Oppose 14.5.1.1 Report required before commencing activity as this provision should not apply to licensed radio amateurs.

#### **Further Submissions**

##### **Support**

26-2x667 M D Newman 30 Nikau St, Wanganui,  
26-3 Oppose the application of 14.5.3.1.1 ii) to licensed radio amateurs as it limits the use of wire antennas.

**Further Submissions**

**Support**

26-3x668 M D Newman 30 Nikau St, Wanganui,

26-4 Oppose 14.5.3.1.2 i) Aerials attached to a mast, regarding the limitation of one aerial per mast, as it is unduly restrictive on licensed radio amateurs.

**Further Submissions**

**Support**

26-4x669 M D Newman 30 Nikau St, Wanganui,

26-5 Oppose the inclusion of privately owned aerials and antennas in the same category as 'telecommunication networks'.

**Further Submissions**

**Support**

26-5x670 M D Newman 30 Nikau St, Wanganui,

26-6 Oppose 14.5.3.1.2 i) Aerials attached to a mast, concerning aerials being limited to 1m in dimension. The right of licensed radio amateur to use wire or beam aerials should not be restricted by this rule.

**Further Submissions**

**Support**

26-6x671 M D Newman 30 Nikau St, Wanganui,

26-7 Oppose the application of 14.5.3.2.1 a)i) to licensed radio amateurs. Amend clause by deleting the words 'to which it is attached'.

**Further Submissions**

**Support**

26-7x672 M D Newman 30 Nikau St, Wanganui,

26-8 Oppose the application of 14.5.1.2 b)i) Radio frequency fields (Independent monitoring) to licensed radio amateurs.

**Further Submissions**

**Support**

26-8x673 M D Newman 30 Nikau St, Wanganui,

26-9 Oppose the application of 14.5.1.2 Radio frequency fields to licensed radio amateurs as power limits for radio amateurs are set by MED.

**Further Submissions**

**Support**

26-9x674 M D Newman 30 Nikau St, Wanganui,

26-10 Oppose the proposed plan change generally as it fails to accommodate as permitted uses the reasonable requirements of amateur radio operators and the amateur radio service, through excessive limitations on the height, location and numbers of radio antennas and aerials and their supporting structures.

**Further Submissions**

**Support**

26-10x675 M D Newman 30 Nikau St, Wanganui,

26-11 Amend the proposed plan change to allow, as permitted uses, antennas erected at proper height and dimensions and in sufficient number for communications effectiveness and experimentation and otherwise that will reasonably accommodate amateur radio service communications.

**Further Submissions**

**Support**

26-11x676 M D Newman 30 Nikau St, Wanganui,

26-12 Amend the proposed plan change to remove the requirement for licensed amateur radio operators to have their radio frequency emissions subjected to monitoring and to be charged a fee for this monitoring.

**Further Submissions**

**Support**

26-12x677 M D Newman 30 Nikau St, Wanganui,

26-13 Permit the use of pole structures not exceeding 80mm in diameter to be used for supporting aerials and antenna

**Further Submissions**

**Support**

26-13x678 M D Newman 30 Nikau St, Wanganui,

26-14 Increase the height limits for amateur aerial and antenna supporting structures to 18 metres

**Further Submissions**

**Support**

26-14x679 M D Newman 30 Nikau St, Wanganui,

26-15 Allow the height of antennas mounted on buildings to be no less than for antennas on other supporting structures

**Further Submissions**

**Support**

26-15x680 M D Newman 30 Nikau St, Wanganui,

26-16 Remove the application of height control planes to amateur antennas and their supporting structures

**Further Submissions**

**Support**

26-16x681 M D Newman 30 Nikau St, Wanganui,

26-17 Reduce the setbacks of simple pole structures to 0.5 metres on all boundaries and for mast structures to 1.5 metres

**Further Submissions**

**Support**

26-17x682 M D Newman 30 Nikau St, Wanganui,

26-18 Allow amateur communication satellite dishes up to 4 metres in diameter

**Further Submissions**

**Support**



26-18x683 M D Newman 30 Nikau St, Wanganui,

26-19 No limitation on numbers of amateur antennas and their supporting structures.

**Further Submissions**

**Support**

26-19x684 M D Newman 30 Nikau St, Wanganui,

26-20 Incorporate the following wording: The requirement for mandatory random field testing shall not apply to the holder of an amateur radio license'.

**Further Submissions**

**Support**

26-20x685 M D Newman 30 Nikau St, Wanganui,

26-21 Oppose 14.1 and in particular the inclusion of privately owned aerials and antennas in 'telecommunication networks'

**Further Submissions**

**Support**

26-21x686 M D Newman 30 Nikau St, Wanganui,

26-22 Oppose Policy 14.3.2.9 as it encourages locating aerials on buildings as opposed to masts

**Further Submissions**

**Support**

26-22x687 M D Newman 30 Nikau St, Wanganui,

26-23 Oppose Policy 14.3.2.11 as it tries to control the design and siting of equipment emitting radiofrequency radiation

**Further Submissions**

**Support**

26-23x688 M D Newman 30 Nikau St, Wanganui,

26-24 Oppose Rule 14.4.2 as it sets out controls on network utilities

**Further Submissions**

**Support**

26-24x689 M D Newman 30 Nikau St, Wanganui,

26-25 Oppose rules in Activity Table 14.1 that attempts to control radiofrequency fields emitted by activities

**Further Submissions**

**Support**

26-25x690 M D Newman 30 Nikau St, Wanganui,

26-26 Oppose rules in Activity Table 14.1 that attempts to control aerials

**Further Submissions**

**Support**

26-26x691 M D Newman 30 Nikau St, Wanganui,

26-27 Oppose rules in Activity Table 14.1 that attempt to control antennas

**Further Submissions**

**Support**

26-27x692 M D Newman 30 Nikau St, Wanganui

26-28 Oppose rules in Activity Table 14.1 that attempt to control masts

**Further Submissions**

**Support**

26-28x693 M D Newman 30 Nikau St, Wanganui

26-29 Oppose Rule 14.5.1.1 that requires report for activity emitting radio frequency fields or extremely low frequency electric and magnetic fields

**Further Submissions**

**Support**

26-29x694 M D Newman 30 Nikau St, Wanganui

26-30 Oppose the application of Rule 14.5.1.2 (requiring radiofrequency fields to comply with NZS 2772.1)

**Further Submissions**

**Support**

26-30x695 M D Newman 30 Nikau St, Wanganu

26-31 Oppose Rule 14.5.1.2(b)(i) (requiring independent monitoring of radio frequency fields)

**Further Submissions**

**Support**

26-31x696 M D Newman 30 Nikau St, Wanganui

26-32 Oppose Rule 14.5.1.2(b)(ii) (monitoring will take place at the applicant's cost)

**Further Submissions**

**Support**

26-32x697 M D Newman 30 Nikau St, Wanganui,

26-33 Oppose Rule 14.5.1.2(b)(iii) (numbers of network utility operator's sites subject to monitoring)

**Further Submissions**

**Support**

26-33x698 M D Newman 30 Nikau St, Wanganui

26-34 Oppose Rule 14.5.1.3 (compliance of electric and magnetic fields with ICNIRP guidelines 1998)

**Further Submissions**

**Support**

26-34x699 M D Newman 30 Nikau St, Wanganui

26-35 Oppose 14.5.2.2 (requiring landscaping or screening of above ground structures)

**Further Submissions**

**Support**

- 26-35x700 M D Newman 30 Nikau St, Wanganui  
26-36 Oppose 14.5.2.4 (all structures higher than 1.8m to comply with development controls)

**Further Submissions****Support**

- 26-36x701 M D Newman 30 Nikau St, Wanganui,  
26-37 Oppose 14.5.3.1.1i) (aerials no higher than 3m above attachment)

**Further Submissions****Support**

- 26-37x702 M D Newman 30 Nikau St, Wanganui  
26-38 Oppose 14.5.3.1.1ii) (only two aerials per residential unit)

**Further Submissions****Support**

- 26-38x703 M D Newman 30 Nikau St, Wanganui,  
26-39 Oppose 14.5.3.1.1iii) (dimensions of aerials to be less than 3m)

**Further Submissions****Support**

- 26-39x704 M D Newman 30 Nikau St, Wanganui,  
26-40 Oppose 14.5.3.1.2i) (only one aerial per mast permitted)

**Further Submissions****Support**

- 26-40x705 M D Newman 30 Nikau St, Wanganui  
26-41 Oppose 14.5.3.1.2ii) (dimensions of aerial to be 1m when attached to a mast)

**Further Submissions****Support**

- 26-41x706 M D Newman 30 Nikau St, Wanganui,  
26-42 Oppose 14.5.3.2.1a)i) (antenna not exceed point of attachment by more than 2 m)

**Further Submissions****Support**

- 26-42x707 M D Newman 30 Nikau St, Wanganui,  
26-43 Oppose 14.5.3.2.1a)ii) (no more than 2 antennas per residential unit)

**Further Submissions****Support**

- 26-43x708 M D Newman 30 Nikau St, Wanganui,  
26-44 Oppose 14.5.3.2.1a)iii) (no antennas closer than 1 m to boundary)

**Further Submissions****Support**

- 26-44x709 M D Newman 30 Nikau St, Wanganui,  
26-45 Oppose 14.5.3.2.1b)i) (antenna placement)

**Further Submissions****Support**

- 26-45x710 M D Newman 30 Nikau St, Wanganui,  
26-46 Oppose 14.5.3.2.1b)ii) (visibility of antenna)

**Further Submissions****Support**

- 26-46x711 M D Newman 30 Nikau St, Wanganui  
26-47 Oppose 14.5.3.2.2a)i) (antennas in rural zones not greater than 3m above roof)

**Further Submissions****Support**

- 26-47x712 M D Newman 30 Nikau St, Wanganui  
26-48 Oppose 14.5.3.2.2a)ii) (no more than one antenna attached to façade)

**Further Submissions****Support**

- 26-48x713 M D Newman 30 Nikau St, Wanganui,  
26-49 Oppose 14.5.3.2.2a)iii) (antennas subject to yard controls)

**Further Submissions****Support**

- 26-49x714 M D Newman 30 Nikau St, Wanganui,  
26-50 Oppose 14.5.3.2.2b)i) (antenna located below peak of roofline)

**Further Submissions****Support**

- 26-50x715 M D Newman 30 Nikau St, Wanganui  
26-51 Oppose 14.5.3.2.2b)ii) (antenna should not be on front façade)

**Further Submissions****Support**

- 26-51x716 M D Newman 30 Nikau St, Wanganui  
26-52 Oppose 14.5.3.3 (limits on height of masts)

**Further Submissions****Support**

- 26-52x717 M D Newman 30 Nikau St, Wanganui

26-53 Oppose 14.6.2.6 (reservation of control over matters to do with antennas and masts)

**Further Submissions**

**Support**

26-53x718 M D Newman 30 Nikau St, Wanganui

26-54 Oppose 14.7.1.6 (regarding aerial height, appearance and location on ridgelines)

**Further Submissions**

**Support**

26-54x719 M D Newman 30 Nikau St, Wanganui

26-55 Oppose 3.10.7.1 6 (requirement to furnish report regarding radiofrequency fields when activity proposed)

**Further Submissions**

**Support**

26-55x720 M D Newman 30 Nikau St, Wanganui

26-56 Oppose definition of 'Activity emitting radio frequency fields'

**Further Submissions**

**Support**

26-56x721 M D Newman 30 Nikau St, Wanganui

26-57 Oppose definition of 'Aerial' and the limitation of diameter of aerial to 80mm

**Further Submissions**

**Support**

26-57x722 M D Newman 30 Nikau St, Wanganui

26-58 Oppose definition of 'Antenna'

**Further Submissions**

**Support**

26-58x723 M D Newman 30 Nikau St, Wanganui

26-59 Oppose definition of 'Mast'

**Further Submissions**

**Support**

26-59x724 M D Newman 30 Nikau St, Wanganui

26-60 Oppose definition of 'Radio Communication'

**Further Submissions**

**Support**

26-60x725 M D Newman 30 Nikau St, Wanganui

26-61 Oppose definition of 'Network Utility' and inclusion of privately owned aerials and antennas

**Further Submissions**

**Support**

26-61x726 M D Newman 30 Nikau St, Wanganui

**Submitter** Shelley Smithson

2/17 Challen Close, Takanini

201-1 to 53 See submission 69-1 to 53

**Submitter** Donald Gordon Spackman NZART

27 Dekker Rd, Rd 3 Pyes Pa Tauranga

202-1 to 53 See submission 69-1 to 53

**Submitter** Sue Spindler

1 Havelock Ave, Forrest Hill North Shore City

27-1 Oppose cell sites being placed in residential areas. They should be placed in more appropriate locations such as parks and reserves.

27-2 Oppose the provision of 'block consent' to cell site companies that gives them total power over the location of antennas.

**Submitter** Robyn and John Spooner

19 Lakeview Road, Takapuna North Shore City

234-1 Support all proposals in this plan change.

**Further Submissions**

**Oppose**

234-1x299 Vector Ltd P O Box 99882, Newmarket, Auckland,

234-1x463 M D Newman 30 Nikau St, Wanganui,

**Submitter** Shirley Squire

14b Kapiti Pl, Forrest Hill North Shore City

28-1 Amend S 14.5.2.2 to ensure that tree landscaping is used above all other types of screening.

**Further Submissions**

**Oppose**

28-1x241 Vector Ltd P O Box 99882, Newmarket, Auckland

28-2 Support objectives 14.3.1 and 14.3.2, and support policies 14.3.2, 3, 4 and 6.

**Further Submissions**

**Oppose**

28-2x242 Vector Ltd P O Box 99882, Newmarket, Auckland  
28-3 Support 14.5.3.2 iii), that antennas should not be located closer than one metre to a site boundary.

**Submitter** Derek Stansfield  
3 Johnston Pl, Welcome Bay Tauranga

203-1 to 53 See submission 69-1 to 53

**Submitter** Bruce Steel  
503 Sealey St, Thames 3500

204-1 to 53 See submission 69-1 to 53

**Submitter** Colin Stephens Branch 29 NZART  
56 Karaka St, Takapuna 0622 North Shore City

205-1 to 53 See submission 69-1 to 53

**Submitter** Warren Stirling Radio Operators Group  
1/60 Taharoto Rd, Takapuna North Shore City

62-1 Change the proposed controls on Radio Amateur aerials, antennas and masts

62-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

62-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** Graham Street

63-1 4 Emory Pl, Takanini  
Change the proposed controls on Radio Amateur aerials, antennas and masts

63-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

63-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

**Submitter** Neil Bradman Sturmey Northshore Amateur Club  
42 Alton Ave, Northcote North Shore City

206-1 to 53 See submission 69-1 to 53

**Submitter** Petr Sykora  
P O Box 302346, North Harbour

207-1 to 53 See submission 69-1 to 53

**Submitter** R L Sylvester  
19 Ringwood St, Torbay North Shore City

208-1 to 53 See submission 69-1 to 53

**Submitter** Leo I Taillie  
8 Findlay St, Mangawhai Heads Mangawhai 0505

209-1 to 53 See submission 69-1 to 53

**Submitter** Martin Lawes Takapuna Community Board C/- Takapuna Area Office

Private Bag 93500 Takapuna North Shore City  
29-1 Support Changes 14.1 to 14.7 generally

#### **Further Submissions**

##### **Oppose**

29-1x243 Vector Ltd P O Box 99882, Newmarket, Auckland,

29-2 Amend 14.3.2 (10) as follows to assist in reducing proliferation of over head utility wires;  
'To;

*(a) Require the undergrounding of electric and telecommunication lines in newly developing areas and for infill and redevelopment in established areas, and to encourage require these outcomes in established areas, especially when other street improvement works make this aesthetically desirable, and*

*(b) Encourage Require the undergrounding of above ground network utilities in the road reserve.'*

#### **Further Submissions**

##### **Oppose**

29-2x244 Vector Ltd P O Box 99882, Newmarket, Auckland,

29-2x522 Transpower New Zealand Ltd P O Box 33817, Takapuna, North Shore City

**Submitter** Chris Horne Telecom NZ C/- Incite  
P O Box 3082, Auckland

31-1 Amend the rules for Minor Utility structures in Activity Table 14.1 Miscellaneous. Replace the standards with the following as permitted activities throughout the city;

*'Residential zones:*

Max height – 1.8m

Max volume 2.5m<sup>3</sup>

Max number of cabinets per separate property frontage exceeding 900mm – 1 cabinet.

Rural, Business and Mixed Use zones:

Max Height – 2m

Max volume 3.5m<sup>3</sup>

- 31-2 Oppose row 1 in Activity Table 14.1 Telecommunications relating to Radio frequency fields, and oppose rule 14.5.1.2(b). Amend rule 14.5.1.2(b) in line with Mfe/MoH guidelines that suggest monitoring should only occur where expected levels are greater than 25% of NZS 2772, with confirmation monitoring done 3 months after emissions commence. This provision should not be retrospective and should apply only to new sites.

#### **Further Submissions**

##### **Support**

- 31-2x444 Broadcast Communications Ltd P O Box 137, Taupo  
31-2x1182 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
31-2x1195 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland,

- 31-3 Oppose row 5 in Activity Table 14.1 Telecommunications that provides for telecommunication kiosks in the road reserve to be controlled activities. Amend Table 14.1 to make telecommunication kiosks permitted activities within the road

- 31-4 Oppose row 8 in Activity Table 14.1, Telecommunications regarding antennas attached to a building. Where an antenna is within the existing profile of a building, antennas should be permitted. Amend Activity Table 14.1 so that all panel antennas attached entirely within the existing building profile are a permitted activity regardless of dimension.

#### **Further Submissions**

##### **Support**

- 31-4x448 Broadcast Communications Ltd P O Box 137, Taupo  
31-4x1183 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
31-4x1196 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland  
31-5 Oppose in part row 11 in Activity Table 14.1 Telecommunications - 'Masts in accordance with the height limits in 14.5.3.3'. Amend rule to allow masts that comply with the height limit and other development controls of the zone, and also with height limits in S14.5.3.3., to be a permitted activity in Business and Rural zones.

#### **Further Submissions**

##### **Support**

- 31-5x445 Broadcast Communications Ltd P O Box 137, Taupo  
31-6 Support in part row 8 in Activity Table 14.1 Telecommunications - 'Antennas attached to street lights...'. Amend the rule to allow a percentage increase in diameter (eg 25%). This will take account of a situation where the diameter of the replacement light pole may need to increase to provide strength to the pole.

#### **Further Submissions**

##### **Support**

- 31-6x1184 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
31-6x1197 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland,

- 31-7 Oppose row 15 in Activity Table 14.1 Telecommunications - Restriction on more than 3 antennas attached to a mast or streetlight. Amend this rule so there is no restriction on antenna numbers if a free standing facility (without support arms) is within zone building envelope controls, and with a limit of at least 6 in other situations if mounted flush against

#### **Further Submissions**

##### **Support**

- 31-7x446 Broadcast Communications Ltd P O Box 137, Taupo  
31-8 Oppose row 23 in Activity Table 14.1 Telecommunications - 'Other new above ground Telecommunication service/connection lines'. Amend rule for new overhead connections from existing overhead network to be permitted activities, which is in line with the existing provisions in the operative plan.  
31-9 Support row 25 in Activity Table 14.1 Telecommunications - 'New above ground telecommunication lines'. Amend this rule to allow new above ground telecommunication lines as a permitted activity in Rural zones.  
31-10 Oppose 14.5.3.2.1 b) ii) Antennas in Residential, Recreation and Special Purpose 3-11 and 13 zones. Delete this development control as it is ambiguous.

#### **Further Submissions**

##### **Support**

- 31-10x447 Broadcast Communications Ltd P O Box 137, Taupo  
31-10x1185 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
31-10x1198 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland,  
31-11 Oppose 14.5.3.2.2 b) Antennas in Business, Rural Special Purpose 1,2 and 12 zones. Delete this development control as it does not apply in any zones and is unnecessary if located entirely within the building profile (as outlined previously).

#### **Further Submissions**

##### **Support**

- 31-11x449 Broadcast Communications Ltd P O Box 137, Taupo  
31-11x1186 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
31-11x1199 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland,

- 31-12 Oppose 14.5.3.2.1a) i) and 14.5.3.2.2 a) i) Antennas attached to Buildings. Delete this development control as it is unclear and difficult to apply in practice, or amend to the satisfaction of Telecom to provide certainty for

#### **Further Submissions**

##### **Support**

- 31-12x1187 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
31-12x1200 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland,

- 31-13 Oppose 14.5.3.5.1 Minor utility structures within the road reserve. Delete this development control or amend, to the satisfaction of Telecom, to remove the matters already covered by road opening notice procedures and to allow only one utility structure exceeding height of 900mm, per property frontage, in all other zones except Business 7-10.

### **Further Submissions**

#### **Support**

31-13x245 Vector Ltd P O Box 99882, Newmarket, Auckland  
31-13x1188 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,  
31-13x1201 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland,

31-14 Oppose in part bullet point xi) of 14.6.1.2. Amend to remove matters that are adequately covered by road opening notice procedures.

**Submitter** Poul Israelson TelstraClear Ltd C/- Harrison Grierson Consultants  
P O Box 5760, Wellesley St Auckland

32-1 Amend the first two bullet points of S 14.3.4 Environmental Results Anticipated as follows, or other consequential relief that will give effect to this submission;

- *A city with network utilities that do not have significant adverse environmental effects, as measured by resident perception surveys.*
- *Whether network utilities are considered to adversely affect amenity values in more sensitive areas such as recreation and coastal areas, and those containing cultural, built and natural heritage. This will be measured by resident perception surveys.*

### **Further Submissions**

#### **Support**

32-1x246 Vector Ltd P O Box 99882, Newmarket, Auckland,  
32-1x450 Broadcast Communications Ltd P O Box 137, Taupo,  
32-1x1163 Telecom NZ P O Box 3082, Auckland,

32-2 Amend the wording of row 5 of the Miscellaneous Section of Activity Table 14.1 as follows;

*'RR - Any MINOR UTILITY STRUCTURE, which has a total ~~ground coverage~~ volume not exceeding ~~0.5m<sup>2</sup>~~ in area 2.5m<sup>2</sup> and has a height not exceeding ~~4m~~ 1.8m above NATURAL GROUND LEVEL'*

Amend activity classifications to ensure that all zones are permitted.

### **Further Submissions**

#### **Support**

32-2x247 Vector Ltd P O Box 99882, Newmarket, Auckland,

32-3 Amend the wording of row 6 of the Miscellaneous Section of Activity Table 14.1 as follows;

*'...Does not exceed ~~4.8m~~ 2m in height above NATURAL GROUND LEVEL, and...'*

Amend activity classifications to ensure that Rural and Business zones are permitted, and all other zones are discretionary

### **Further Submissions**

#### **Support**

32-3x248 Vector Ltd P O Box 99882, Newmarket, Auckland,

32-4 Amend S 14.5.3.5.1b) as follows

*'...b) not be located more frequently than one structure every 50 metres on each side of the road reserve. This rule excludes;*

*i) Minor utility structures that are permitted activities*

*ii) Business zones ~~7-10~~*

*iii) Those structures located on Primary arterials as identified in Appendix 1 of the District Plan maps, regardless of the underlying zoning.*

### **Further Submissions**

#### **Support**

32-4x249 Vector Ltd P O Box 99882, Newmarket, Auckland,

32-5 Amend the wording of row 8 of the Telecommunications Section of Activity Table 14.1 as follows;

*'ANTENNAS attached to a BUILDING (excluding a MAST) that do not exceed;*

*~~4m<sup>2</sup>~~ 1.2m<sup>2</sup> in area or ~~4m~~ 1.2m in diameter, or...'*

### **Further Submissions**

#### **Support**

32-5x250 Vector Ltd P O Box 99882, Newmarket, Auckland,  
32-5x451 Broadcast Communications Ltd P O Box 137, Taupo,

32-6 To make the wording consistent with terminology elsewhere in the Table, amend wording in P column of row 8 and C column of row 9 as follows;

*'All ~~other~~ zones other than Residential, Recreation and Special Purpose 3-11 and 13 zones'*

### **Further Submissions**

#### **Support**

32-6x251 Vector Ltd P O Box 99882, Newmarket, Auckland,

32-7 Delete rule 14.5.3.2.2 b) and amend the wording of row 8 of the Telecommunications Section of Activity Table 14.1 as follows;

*'ANTENNAS attached to a BUILDING (excluding a MAST) that do not exceed;*

*• 1m<sup>2</sup> in area or 1m in diameter, or*

*• 1.5m<sup>2</sup> in area or 1.4m in diameter, are located in Business, Rural and Special Purpose 1,2 or 12 zones, ~~and complies with Rule 14.5.3.2.2 b)~~*

### **Further Submissions**

#### **Support**

32-7x452 Broadcast Communications Ltd P O Box 137, Taupo,

32-8 Amend the wording of row 12 of the Telecommunications Section of Activity Table 14.1 (page 12) as follows;  
'ANTENNAS attached to a MAST that do not exceed ~~4m<sup>2</sup>~~ 1.2m<sup>2</sup> in area or ~~4m~~ 1.2m in diameter'.

Amend the Activity Status of the controlled activities in row 11 and 12 to permitted.

#### **Further Submissions**

##### **Support**

32-8x453 Broadcast Communications Ltd P O Box 137, Taupo

##### **Support in Part**

32-8x1164 Telecom NZ P O Box 3082, Auckland,

32-9 Amend the wording of row 16 of the Telecommunications Section of Activity Table 14.1 (page 12) as follows;

'Up to 4 ANTENNAS attached to a MAST ~~or streetlight~~, provided that where there are 4 ANTENNAS, only one may be a dish ANTENNA and it may not have a diameter greater than ~~600mm~~ 1.2m'

Make this activity permitted in Business, Rural and Special Purpose zones, and limited discretionary in all other zones.

32-10 Delete rule 14.5.1.2 (b). Delete the following words from the Explanation and Reasons section of 14.5.1.2 and 14.5.1.3.

~~'...To ensure they operate within the New Zealand Standard, cell sites and antennas emitting radio frequency fields are also subject to random, independent monitoring of their radio frequency emissions.'~~

#### **Further Submissions**

##### **Support**

32-10x454 Broadcast Communications Ltd P O Box 137, Taupo,

32-11 Amend Rule 14.5.2.2 as follows;

*'For amenity purposes, the visual impact of above ground structures where the base of the structure is visible from a public place or road reserve must shall be remedied or mitigated by landscaping, screening or similar remedial measures. Such landscaping, screening or remedial measures shall not be required for network utilities either located in the road reserve or attached to buildings.*

32-12 Amend Rule 15.5.2.4 as follows;

~~'14.5.2.4 Height, Height to Boundary and Yard Controls~~

*For all activities located outside the road reserve and above ground, all structures greater than 1.8m high or 10m<sup>2</sup> shall comply with the ~~development controls~~ height to boundary and yard controls for the zones in which they are located.'*

#### **Further Submissions**

##### **Support**

32-12x252 Vector Ltd P O Box 99882, Newmarket, Auckland

32-12x1165 Telecom NZ P O Box 3082, Auckland,

32-13 Amend the wording of row 14 of the Telecommunications Section of Activity Table 14.1 (page 12) as follows;

'RR - ANTENNAS attached to street lights provided that;

*the ANTENNA does not exceed ~~4m<sup>2</sup>~~ 1.2m<sup>2</sup> in area ~~or 4m in diameter~~, and*

*the height of the ANTENNA does not exceed the height of the existing structure by more than ~~or~~ 2.5m or 25 percent of the height of the structure, whichever is greater, and*

*up to 3 ANTENNAS may be attached to a street light.'*

Amend activity status to permitted in all zones.

Delete row 15 of the Telecommunications Section of Activity Table 14.1.

#### **Further Submissions**

##### **Support**

32-13x455 Broadcast Communications Ltd P O Box 137, Taupo

32-13x1166 Telecom NZ P O Box 3082, Auckland,

32-14 Delete bullet points 4 and 5 in S 14.6.2.6 (i) Antennas and Masts.

#### **Further Submissions**

##### **Support**

32-14x1167 Telecom NZ P O Box 3082, Auckland,

32-15 Amend the definition of Antenna in S 21 as follows;

*'...This includes the antenna's mountings (including any support structure or head arrangement such as shrouds or antenna covers) and radio frequency unit or similar device...'*

#### **Further Submissions**

##### **Support**

32-15x1168 Telecom NZ P O Box 3082, Auckland,

32-16 Amend S 14.6.1.1 as follows;

'The Council reserves control over the following matters for all Controlled activity resource consent applications;

a) Design, and external appearance ~~and scale~~

b) ~~Siting and height,~~

c) ~~Visual impact including~~ landscaping and screening

d) Effects on streetscape and amenity

e) Cumulative effects...'

#### **Further Submissions**

##### **Support**

32-16x253 Vector Ltd P O Box 99882, Newmarket, Auckland

32-17 Amend S14.6.1.2 as follows;

*'The Council shall assess applications using the following criteria;...*

...

*iv) ~~The effect on any significant views will be avoided or mitigated, including those from the Coastal Marine Area...~~*

...

*xi) Whether structures located in the road reserve will be sited so that;*

- *the potential for traffic and pedestrian safety problems is avoided and recommended clearance distances for pedestrian thoroughfare is preserved (as detailed in North Shore City Council's Infrastructure Design Standards). ~~This assessment must take account of any likely proposed upgrading or improvements of the road...~~*

#### **Further Submissions**

##### **Support**

32-17x254 Vector Ltd P O Box 99882, Newmarket, Auckland

32-18 Amend 14.6.2.3 b) as follows;

*'The Council reserves control over the matters specified in 14.6.1.1 and the following;...*

...

*b) Any proposed road alterations*

...

*ii) ~~The proposed location of the equipment or structure in relation to any planned road widening, or vertical and / or horizontal realignment of the road...~~*

...'

#### **Further Submissions**

##### **Support**

32-18x255 Vector Ltd P O Box 99882, Newmarket, Auckland,

**Submitter** Robert Thompson

P O Box 33442, Takapuna

210-1 to 53 See submission 69-1 to 53

**Submitter** Dennis Thornton

12 Rahui Rd, Greenhithe North Shore City

64-1 Change the proposed rules covering the radio amateur service to provide the ability to function under the terms and conditions of the licenses issued by the MED, Radio Spectrum Management

#### **Further Submissions**

##### **Support**

64-1x1093 M D Newman 30 Nikau St, Wanganui,

64-2 Oppose the proposed plan change generally as it fails to accommodate as permitted uses the reasonable requirements of amateur radio operators and the amateur radio service, through excessive limitations on the height, location and numbers of radio antennas and aerials and their supporting structures.

#### **Further Submissions**

##### **Support**

64-2x1094 M D Newman 30 Nikau St, Wanganui,

64-3 Amend the proposed plan change to allow, as permitted uses, antennas erected at proper height and dimensions and in sufficient number for communications effectiveness and experimentation and otherwise that will reasonably accommodate amateur radio service communications.

#### **Further Submissions**

##### **Support**

64-3x1095 M D Newman 30 Nikau St, Wanganui,

64-4 Amend the proposed plan change to remove the requirement for licensed amateur radio operators to have their radio frequency emissions subjected to monitoring and to be charged a fee for this monitoring.

#### **Further Submissions**

##### **Support**

64-4x1096 M D Newman 30 Nikau St, Wanganui,

64-5 Permit the use of pole structures not exceeding 80mm in diameter to be used for supporting aerials and antenna

#### **Further Submissions**

##### **Support**

64-5x1097 M D Newman 30 Nikau St, Wanganui

64-6 Increase the height limits for amateur aerial and antenna supporting structures to 18 metres

#### **Further Submissions**

##### **Support**

64-6x1098 M D Newman 30 Nikau St, Wanganui

64-7 Allow the height of antennas mounted on buildings to be no less than for antennas on other supporting structures

#### **Further Submissions**

##### **Support**



64-7x1099 M D Newman 30 Nikau St, Wanganui,

64-8 Remove the application of height control planes to amateur antennas and their supporting structures

**Further Submissions**

**Support**

64-8x1100 M D Newman 30 Nikau St, Wanganui,

64-9 Reduce the setbacks of simple pole structures to 0.5 metres on all boundaries and for mast structures to 1.5 metres

**Further Submissions**

**Support**

64-9x1101 M D Newman 30 Nikau St, Wanganui

64-10 Allow amateur communication satellite dishes up to 4 metres in diameter

**Further Submissions**

**Support**

64-10x1102 M D Newman 30 Nikau St, Wanganui

64-11 No limitation on numbers of amateur antennas and their supporting structures.

**Further Submissions**

**Support**

64-11x1103 M D Newman 30 Nikau St, Wanganui,

64-12 Incorporate the following wording: The requirement for mandatory random field testing shall not apply to the holder of an amateur radio license'.

**Further Submissions**

**Support**

64-12x1104 M D Newman 30 Nikau St, Wanganui,

64-13 Oppose 14.1 and in particular the inclusion of privately owned aerials and antennas in 'telecommunication networks'

**Further Submissions**

**Support**

64-13x1105 M D Newman 30 Nikau St, Wanganui

64-14 Oppose Policy 14.3.2.9 as it encourages locating aerials on buildings as opposed to masts

**Further Submissions**

**Support**

64-14x1106 M D Newman 30 Nikau St, Wanganui

64-15 Oppose Policy 14.3.2.11 as it tries to control the design and siting of equipment emitting radiofrequency radiation

**Further Submissions**

**Support**

64-15x1107 M D Newman 30 Nikau St, Wanganui

64-16 Oppose Rule 14.4.2 as it sets out controls on network utilities

**Further Submissions**

**Support**

64-16x1108 M D Newman 30 Nikau St, Wanganui

64-17 Oppose rules in Activity Table 14.1 that attempts to control radiofrequency fields emitted by activities

**Further Submissions**

**Support**

64-17x1109 M D Newman 30 Nikau St, Wanganui

64-18 Oppose rules in Activity Table 14.1 that attempts to control aerials

**Further Submissions**

**Support**

64-18x1110 M D Newman 30 Nikau St, Wanganui

64-19 Oppose rules in Activity Table 14.1 that attempt to control antennas

**Further Submissions**

**Support**

64-19x1111 M D Newman 30 Nikau St, Wanganui

64-20 Oppose rules in Activity Table 14.1 that attempt to control masts

**Further Submissions**

**Support**

64-20x1112 M D Newman 30 Nikau St, Wanganui

64-21 Oppose Rule 14.5.1.1 that requires report for activity emitting radio frequency fields or extremely low frequency electric and magnetic fields

**Further Submissions**

**Support**

64-21x1113 M D Newman 30 Nikau St, Wanganui

64-22 Oppose the application of Rule 14.5.1.2 (requiring radiofrequency fields to comply with NZS 2772.1)

**Further Submissions**

**Support**

64-22x1114 M D Newman 30 Nikau St, Wanganui

64-23 Oppose Rule 14.5.1.2(b)(i) (requiring independent monitoring of radio frequency fields)

**Further Submissions**

**Support**

64-23x1115 M D Newman 30 Nikau St, Wanganui

64-24 Oppose Rule 14.5.1.2(b)(ii) (monitoring will take place at the applicant's cost)

**Further Submissions**

**Support**

64-24x1116 M D Newman 30 Nikau St, Wanganui

64-25 Oppose Rule 14.5.1.2(b)(iii) (numbers of network utility operator's sites subject to monitoring)

**Further Submissions**

**Support**

64-25x1117 M D Newman 30 Nikau St, Wanganui

64-26 Oppose Rule 14.5.1.3 (compliance of electric and magnetic fields with ICNIRP guidelines 1998)

**Further Submissions**

**Support**

64-26x1118 M D Newman 30 Nikau St, Wanganui

64-27 Oppose 14.5.2.2 (requiring landscaping or screening of above ground structures)

**Further Submissions**

**Support**

64-27x1119 M D Newman 30 Nikau St, Wanganui

64-28 Oppose 14.5.2.4 (all structures higher than 1.8m to comply with development controls)

**Further Submissions**

**Support**

64-28x1120 M D Newman 30 Nikau St, Wanganui

64-29 Oppose 14.5.3.1.1i) (aerials no higher than 3m above attachment)

**Further Submissions**

**Support**

64-29x1121 M D Newman 30 Nikau St, Wanganui

64-30 Oppose 14.5.3.1.1ii) (only two aerials per residential unit)

**Further Submissions**

**Support**

64-30x1122 M D Newman 30 Nikau St, Wanganui

64-31 Oppose 14.5.3.1.1iii) (dimensions of aerials to be less than 3m)

**Further Submissions**

**Support**

64-31x1123 M D Newman 30 Nikau St, Wanganui

64-32 Oppose 14.5.3.1.2i) (only one aerial per mast permitted)

**Further Submissions**

**Support**

64-32x1124 M D Newman 30 Nikau St, Wanganui

64-33 Oppose 14.5.3.1.2ii) (dimensions of aerial to be 1m when attached to a mast)

**Further Submissions**

**Support**

64-33x1125 M D Newman 30 Nikau St, Wanganui

64-34 Oppose 14.5.3.2.1a)i) (antenna not exceed point of attachment by more than 2 m)

**Further Submissions**

**Support**

64-34x1126 M D Newman 30 Nikau St, Wanganui

64-35 Oppose 14.5.3.2.1a)ii) (no more than 2 antennas per residential unit)

**Further Submissions**

**Support**

64-35x1127 M D Newman 30 Nikau St, Wanganui

64-36 Oppose 14.5.3.2.1a)iii) (no antennas closer than 1 m to boundary)

**Further Submissions**

**Support**

64-36x1128 M D Newman 30 Nikau St, Wanganui

64-37 Oppose 14.5.3.2.1b)i) (antenna placement)

**Further Submissions**

**Support**

64-37x1129 M D Newman 30 Nikau St, Wanganui

64-38 Oppose 14.5.3.2.1b)ii) (visibility of antenna)

**Further Submissions**

**Support**

64-38x1130 M D Newman 30 Nikau St, Wanganui

64-39 Oppose 14.5.3.2.2a)i) (antennas in rural zones not greater than 3m above roof)

**Further Submissions**

**Support**

64-39x1131 M D Newman 30 Nikau St, Wanganui

64-40 Oppose 14.5.3.2.2a)ii) (no more than one antenna attached to façade)

**Further Submissions****Support**

64-40x1132 M D Newman 30 Nikau St, Wanganui

64-41 Oppose 14.5.3.2.2a)iii) (antennas subject to yard controls)

**Further Submissions****Support**

64-41x1133 M D Newman 30 Nikau St, Wanganui

64-42 Oppose 14.5.3.2.2b)i) (antenna located below peak of roofline)

**Further Submissions****Support**

64-42x1134 M D Newman 30 Nikau St, Wanganui

64-43 Oppose 14.5.3.2.2b)ii) (antenna should not be on front façade)

**Further Submissions****Support**

64-43x1135 M D Newman 30 Nikau St, Wanganui

64-44 Oppose 14.5.3.3 (limits on height of masts)

**Further Submissions****Support**

64-44x1136 M D Newman 30 Nikau St, Wanganui

64-45 Oppose 14.6.2.6 (reservation of control over matters to do with antennas and masts)

**Further Submissions****Support**

64-45x1137 M D Newman 30 Nikau St, Wanganui

64-46 Oppose 14.7.1.6 (regarding aerial height, appearance and location on ridgelines)

**Further Submissions****Support**

64-46x1138 M D Newman 30 Nikau St, Wanganui

64-47 Oppose 3.10.7.1 6 (requirement to furnish report regarding radiofrequency fields when activity proposed)

**Further Submissions****Support**

64-47x1139 M D Newman 30 Nikau St, Wanganui

64-48 Oppose definition of 'Activity emitting radio frequency fields'

**Further Submissions****Support**

64-48x1140 M D Newman 30 Nikau St, Wanganui

64-49 Oppose definition of 'Aerial' and the limitation of diameter of aerial to 80mm

**Further Submissions****Support**

64-49x1141 M D Newman 30 Nikau St, Wanganui

64-50 Oppose definition of 'Antenna'

**Further Submissions****Support**

64-50x1142 M D Newman 30 Nikau St, Wanganui

64-51 Oppose definition of 'Mast'

**Further Submissions****Support**

64-51x1143 M D Newman 30 Nikau St, Wanganui

64-52 Oppose definition of 'Radio Communication'

**Further Submissions****Support**

64-52x1144 M D Newman 30 Nikau St, Wanganui

64-53 Oppose definition of 'Network Utility' and inclusion of privately owned aerials and antennas

**Further Submissions****Support**

64-53x1145 M D Newman 30 Nikau St, Wanganui

64-54 Oppose the provisions relating to radiofrequency radiation and requests the adoption of a procedure based on those adopted by Auckland CC, Christchurch CC and particularly Palmerston North CC.

**Further Submissions****Support**

64-54x663 M D Newman 30 Nikau St, Wanganui

**Submitter** Rachel Harward Transit New Zealand  
P O Box 1459, Auckland

#### **Further Submissions**

##### **Oppose**

33-1x256 Vector Ltd P O Box 99882, Newmarket, Auckland

33-2 Support in part Policy 14.3.2 (8). Amend policy to read;

*'To encourage the co-location of structures, the shared use of structures, and the use of existing network utility corridors, subject to;*

*(a) Technical and operational feasibility, and*

*(b) Recognition that the positive effects can be outweighed by the adverse cumulative effects.*

*(c) Avoiding, remedying or mitigating any adverse effects, including those on other established or designated sites.'*

33-3 Support Policy 14.3.2(10), and in particular the following;

*'(b) Encourage the undergrounding of above ground network utilities in the road reserve.'*

#### **Further Submissions**

##### **Oppose**

33-3x257 Vector Ltd P O Box 99882, Newmarket, Auckland

**Submitter** Yana Bosseva Transpower New Zealand Ltd C/- c/o  
P O Box 33817, Takapuna

34-1 Insert new issue statement and explanation concerning nationally significant infrastructure in S 14.2 as follows;

**'Large-scale, nationally significant infrastructure, such as the National Grid, has adverse effects, which cannot always be avoided, remedied or mitigated.'**

*The National Grid consists of large-scale structures, and a linear inter-regional network. Its nature and scale deems avoiding, remedying or mitigating its adverse effects considerably difficult. For example, the height of structures makes screening impracticable; there are practical limitations or constraints relating to the location of the connection points; there are minimum safety clearances that have to be maintained; and the fundamental requirements of support structures reduce mitigation options in terms of modifications to form or profile.'*

#### **Further Submissions**

##### **Support**

34-1x258 Vector Ltd P O Box 99882, Newmarket, Auckland

34-2 Insert new issue statement and explanation concerning existing infrastructure corridors in S 14.2 as follows;

**'Significant infrastructure corridors need to be protected and provided for to enable infrastructure to meet the ongoing demands and requirements of the City.'**

*Significant infrastructure corridors, such as along existing high voltage electricity transmission lines, are essential to the functioning of a modern city. These corridors need to be able to function in a way that can meet the ongoing demands for energy. Infrastructure within these corridors is recognised as dynamic and it is recognised that they may need to be upgraded as required to ensure supply can meet the demands of North Shore and surrounding regions.'*

#### **Further Submissions**

##### **Support**

34-2x259 Vector Ltd P O Box 99882, Newmarket, Auckland

34-3 Insert new objective concerning nationally significant infrastructure in S14.3 as follows;

*'To recognise the operational constraints in the ability to avoid, remedy or mitigate adverse effects arising from the establishment, maintenance and upgrading of large-scale, nationally significant infrastructure.'*

#### **Further Submissions**

##### **Support**

34-3x260 Vector Ltd P O Box 99882, Newmarket, Auckland

34-4 Insert new objective concerning nationally existing infrastructure corridors in S14.3 as follows;

*'To recognise and provide for existing infrastructure corridors.'*

#### **Further Submissions**

##### **Support**

34-4x261 Vector Ltd P O Box 99882, Newmarket, Auckland

34-5 Amend objective 14.3.2 as follows;

*'To avoid, remedy or mitigate as far as practicable, any adverse effects....'*

#### **Further Submissions**

##### **Support**

34-5x262 Vector Ltd P O Box 99882, Newmarket, Auckland

34-6 Delete polices 4, 5 and 6 in S 14.3.2 and replace with the following policy;

*'4. As far as practicable, and taking operational requirements into account, network utilities should be designed, sited, operated and maintained in such a way as to avoid, remedy or mitigate adverse effects on the amenity values of the area, including sites, buildings or areas of heritage and archaeological value, the landscape and streetscape.'*

#### **Further Submissions**

##### **Support**

34-6x263 Vector Ltd P O Box 99882, Newmarket, Auckland

34-7 Include new policy 14.3.2.10 concerning the protection and use of existing transmission line corridors as follows;

'10. Provide for the ongoing operational needs of network utility infrastructure by protecting existing transmission line corridors from encroachment, to ensure that electricity demands are met.'

#### **Further Submissions**

##### **Support**

34-7x264 Vector Ltd P O Box 99882, Newmarket, Auckland

34-8 Insert new method in S14.3.3 Methods;

- 'Policy 10 shall be implemented by rules, in particular Rule 9.7.2.12.'

#### **Further Submissions**

##### **Support**

34-8x265 Vector Ltd P O Box 99882, Newmarket, Auckland

34-9 Amend S14.3.4 Environmental Results Anticipated, first bullet point, as follows;

- A city with network utilities that adequately provide for community needs and do not have significant adverse environmental effects...

#### **Further Submissions**

##### **Support**

34-9x266 Vector Ltd P O Box 99882, Newmarket, Auckland

34-10 Amend the activity status of row 15 (new above ground high voltage transmission lines) of the Electricity Section of Activity Table 14.1 from non complying to discretionary in all zones.

#### **Further Submissions**

##### **Support**

34-10x267 Vector Ltd P O Box 99882, Newmarket, Auckland

34-11 Either;

Delete row 1 of the Electricity Section of Activity Table 14.1 – 'All activities emitting extremely low frequency electric and magnetic fields'

Or;

Amend the activity status wording in row 1 of the Electricity Section of Activity Table 14.1 as follows;

'All zones provided activity complies with Rule 14.5.1 14.5.1.3.'

#### **Further Submissions**

##### **Support**

34-11x268 Vector Ltd P O Box 99882, Newmarket, Auckland

34-12 Either;

Delete Rule 14.5.1.1.

Or;

Amend Rule 14.5.1.1 as follows, and include text in the Explanation and Reasons to support this;

'Any network utility proposal requiring consent to undertake a new activity emitting radio-frequency fields, or extremely low frequency (ELF) electric and magnetic fields, which result in public exposure, or existing activity that proposes to increase existing levels, should submit a report as required in S 3.10.7.1.6.'

#### **Further Submissions**

##### **Support**

34-12x269 Vector Ltd P O Box 99882, Newmarket, Auckland

34-13 Support row 14 of the Electricity Section of Activity Table 14.1.

'Changes to HIGH VOLTAGE TRANSMISSION LINES, supported by steel tower structures, not provided for as Permitted, Controlled or Limited Discretionary Activities.'

Retain this as a discretionary activity.

#### **Further Submissions**

##### **Support**

34-13x270 Vector Ltd P O Box 99882, Newmarket, Auckland

34-14 Amend 14.5.1.3 as follows;

'Public exposures to ELF electric and magnetic fields shall comply...'

#### **Further Submissions**

##### **Support**

34-14x271 Vector Ltd P O Box 99882, Newmarket, Auckland

34-15 Support Rule 6 in S3.10.7.1 General. Retain this rule.

34-16 Support amendments to Appendix 3A (1)(B) (k).

34-17 Retain S 8.4.1.1b) without further amendment.

#### **Further Submissions**

##### **Support**

34-17x272 Vector Ltd P O Box 99882, Newmarket, Auckland

34-18 Retain the following sections without further amendment;

- 9.3.2 d)
- 9.4.1.1 b)

- 9.4.1.1e)
- 9.4.1.3 q)
- 9.4.4.2 a) iii)
- 9.5.2.18

#### **Further Submissions**

##### **Support**

34-18x273 Vector Ltd P O Box 99882, Newmarket, Auckland

34-19 Amend S 9.7.2.12 Subdivision in the vicinity of High Voltage Transmission Lines to add the following two criteria;

*'...v) The outcome of any consultation with the high voltage transmission line owner.*

*vi) The extent to which the proposal would constrain the ongoing operational needs of the National Grid.'*

#### **Further Submissions**

##### **Support**

34-19x274 Vector Ltd P O Box 99882, Newmarket, Auckland

34-20 Support amendments in S16.6.1.5A and retain without further amendment.

#### **Further Submissions**

##### **Support**

34-20x275 Vector Ltd P O Box 99882, Newmarket, Auckland

34-21 Amend the definition of Minor Upgrading in S21 as follows;

*'Upgrading of electricity transmission lines of 110kV or greater where supported by steel tower structures, is limited to the following:*

...

*ix). An increase in tower height where required where required to comply with the clearance distances specified in NZECP 34:2001.'*

#### **Further Submissions**

##### **Support**

34-21x276 Vector Ltd P O Box 99882, Newmarket, Auckland

34-22 Amend the definition of High Voltage Transmission Lines in S21 as follows;

*'Means an electric line of 110 kV or greater, including support structures (towers).'*

#### **Further Submissions**

##### **Support**

34-22x277 Vector Ltd P O Box 99882, Newmarket, Auckland

**Submitter** Graeme James Trim NZART  
79 Napier Tce, Napier

211-1 to 53 See submission 69-1 to 53

**Submitter** Richard Ussher  
31A Deep Creek Rd, Waiake North Shore City

212-1 to 53 See submission 69-1 to 53

**Submitter** David Valois  
46 McDowell Cres, Glenfield North Shore City

65-1 Change the proposed controls on Radio Amateur aerials, antennas and masts. The current controls go well beyond what is required to preserve environmental beauty and will render amateur radio activity impossible for many people.

65-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

65-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management.

**Submitter** Dr Johan Michael VanSchalkwyk  
5 Traffic Rd, Greenhithe 1311 North Shore City

66-1 Oppose the proposed plan change generally as it places unreasonable restrictions on the requirements of amateur radio operators and the amateur radio service, through excessive limitations on the height, location and numbers of radio antennas and aerials and their supporting structures. Change the controls that apply to these structures.

66-2 Oppose mandatory testing of RF radiation of Radio Amateur stations and change the method of complying with NZS 2772.1

66-3 Change the proposed rules covering the Radio Amateur service to provide the ability to function under the terms and conditions of the licenses issued by MED, Radio Spectrum Management

66-4 Oppose 14.1 and in particular the inclusion of privately owned aerials and antennas in 'telecommunication networks'

66-5 Oppose Policy 14.3.2.9 as it encourages locating aerials on buildings as opposed to masts

66-6 Oppose Policy 14.3.2.11 as it tries to control the design and siting of equipment emitting radiofrequency radiation

66-7 Oppose Rule 14.4.2 as it sets out controls on network utilities

66-8 Oppose rules in Activity Table 14.1 that attempts to control radiofrequency fields emitted by activities

66-9 Oppose rules in Activity Table 14.1 that attempts to control aerials

66-10 Oppose rules in Activity Table 14.1 that attempt to control antennas

66-11 Oppose rules in Activity Table 14.1 that attempt to control masts

66-12	Oppose Rule 14.5.1.1 that requires report for activity emitting radio frequency fields or extremely low frequency electric and magnetic fields
66-13	Oppose the application of Rule 14.5.1.2 (requiring radiofrequency fields to comply with NZS 2772.1)
66-14	Oppose Rule 14.5.1.2(b)(i) (requiring independent monitoring of radio frequency fields)
66-15	Oppose Rule 14.5.1.2(b)(ii) (monitoring will take place at the applicant's cost)
66-16	Oppose Rule 14.5.1.2(b)(iii) (numbers of network utility operator's sites subject to monitoring)
66-17	Oppose Rule 14.5.1.3 (compliance of electric and magnetic fields with ICNIRP guidelines 1998)
66-18	Oppose 14.5.2.2 (requiring landscaping or screening of above ground structures)
66-19	Oppose 14.5.2.4 (all structures higher than 1.8m to comply with development controls)
66-20	Oppose 14.5.3.1.1i) (aerials no higher than 3m above attachment)
66-21	Oppose 14.5.3.1.1ii) (only two aerials per residential unit)
66-22	Oppose 14.5.3.1.1iii) (dimensions of aerials to be less than 3m)
66-23	Oppose 14.5.3.1.2i) (only one aerial per mast permitted)
66-24	Oppose 14.5.3.1.2ii) (dimensions of aerial to be 1m when attached to a mast)
66-25	Oppose 14.5.3.2.1a)i) (antenna not exceed point of attachment by more than 2 m)
66-26	Oppose 14.5.3.2.1a)ii) (no more than 2 antennas per residential unit)
66-27	Oppose 14.5.3.2.1a)iii) (no antennas closer than 1 m to boundary)
66-28	Oppose 14.5.3.2.1b)i) (antenna placement)
66-29	Oppose 14.5.3.2.1b)ii) (visibility of antenna)
66-30	Oppose 14.5.3.2.2a)i) (antennas in rural zones not greater than 3m above roof)
66-31	Oppose 14.5.3.2.2a)ii) (no more than one antenna attached to façade)
66-32	Oppose 14.5.3.2.2a)iii) (antennas subject to yard controls)
66-33	Oppose 14.5.3.2.2b)i) (antenna located below peak of roofline)
66-34	Oppose 14.5.3.2.2b)ii) (antenna should not be on front façade)
66-35	Oppose 14.5.3.3 (limits on height of masts)
66-36	Oppose 14.6.2.6 (reservation of control over matters to do with antennas and masts)
66-37	Oppose 14.7.1.6 (regarding aerial height, appearance and location on ridgelines)
66-38	Oppose 3.10.7.1 6 (requirement to furnish report regarding radiofrequency fields when activity proposed)
66-39	Oppose definition of 'Activity emitting radio frequency fields'
66-40	Oppose definition of 'Aerial' and the limitation of diameter of aerial to 80mm
66-41	Oppose definition of 'Antenna'
66-42	Oppose definition of 'Mast'
66-43	Oppose definition of 'Radio Communication'
66-44	Oppose definition of 'Network Utility' and inclusion of privately owned aerials and antennas
<b>Submitter</b>	Rebecca Burt Vector Ltd P O Box 99882, Newmarket
35-1	Support and retain the following statement in S 14.1 Introduction;  <i>'...recognition should be given to the essential role that these networks play and the services they provide in the functioning of the city.'</i>  Amend the rest of the Introduction section to better recognise the necessity and importance of utilities, in a manner satisfactory to Vector.
35-2	Support Issue 14.2.2
35-3	Oppose Issues 14.2.1 and 14.2.3 as they focus too greatly on the adverse effects of utilities and do not appropriately recognise the importance of providing for utilities. Amend the Issues section to Vector's satisfaction, for example by including further Issue statements relating to; <ul style="list-style-type: none"> <li>• How to provide for the efficient development, operation and maintenance of public works and network utilities; and</li> <li>• How to coordinate the provision of public works and network utilities with the demands for new or intensified infrastructure</li> </ul>
35-4	Support and retain Objective 14.3.1.
35-5	Oppose 14.3.2 and 14.3.3. Amend Objectives sections by amending these or including further objectives to Vector's satisfaction to; <ul style="list-style-type: none"> <li>• Ensure that public works and network utility operations are appropriately provided for and that, where possible, these facilities are dealt with on the same basis as other activities; and</li> <li>• Promote the efficient establishment and operation of public works and network utilities; and</li> <li>• Ensure that the adverse effects associated with the establishment and operation of public works and network utilities are avoided, remedied or mitigated.</li> </ul>
35-6	Support and retain Policy 14.3.2.1.
35-7	Oppose Policies 14.3.2.2-11. Remove these policies and/or adopt Policies which, to Vector's satisfaction, expressly recognise the need to appropriately provide for utilities. Make any other necessary or consequential amendments to the Explanation and Reasons and Methods sections.
35-8	Oppose 14.3.2.10 as it is worded more in the nature of a Rule than a policy.
35-9	Oppose Policy 14.3.2.5 and 14.3.2.6 as they are unnecessary and fall within other policies.
35-10	Delete 14.3.4 Environmental Results Anticipated.

Or;

Amend the section so it is more balanced in terms of providing for utilities, and delete the reference to resident perception surveys and regional health assessments..

### **Further Submissions**

#### **Support in Part**

35-10x1169 Telecom NZ P O Box 3082, Auckland

35-11 Amend row 1 of the Miscellaneous Section of Activity Table 14.1 as follows;

*'The operation and MAINTENANCE of NETWORK UTILITIES ~~in lawful existence~~ in existence at the date of notification of this plan*

35-12 Amend row 2 of the Miscellaneous Section of Activity Table 14.1 Underground Network Utilities, to change activities in Recreation 1 zone from discretionary to limited discretionary.

35-13 Amend row 4 of the Miscellaneous Section of Activity Table 14.1 Minor utility structure ,to change the activity status for all zones to a Permitted activity, provided that Rules 14.5.2-14.5.4 are complied with.

### **Further Submissions**

#### **Support**

35-13x1170

Telecom NZ P O Box 3082, Auckland,

35-13x1189

Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,

35-13x1202

TelstraClear Ltd P O Box 5760, Wellesley St, Auckland,

35-14 Amend row 6 of the Miscellaneous Section of Activity Table 14.1 Minor utility structure to change the activity status for all zones to a permitted activity status.

35-15 Amend row 7 of the Miscellaneous Section of Activity Table 14.1 Minor utility structure to change the activity status for all zones to a controlled activity status.

35-16 Many activities shown in the Miscellaneous section of Activity Table 14.1 are classified as being discretionary in Recreation 1 and other Recreation zones. Amend this requirement to provide for these as either permitted or controlled activities, with appropriate controls reserved to the Council.

35-17 Amend row 1 of the Electricity Section of Activity Table 14.1 to change the activity status for all zones, when the activity does not comply with Rule 14.5.1, to a limited discretionary activity status.

35-18 Amend row 2 of the Electricity Section of Activity Table 14.1 to change the activity status in the Recreation 1 zone from Discretionary to Controlled or Permitted, with appropriate controls reserved to Council.

35-19 Support row 3 of the Electricity Section of Activity Table 14.1.

35-20 Amend row 4 and 5 of the Electricity Section of Activity Table 14.1 to change the activity status of Electricity Substations to controlled activity in all zones, as being a discretionary activity in some zones is too onerous.

35-21 Amend row 9 of the Electricity Section of Activity Table 14.1 to change the activity status of new above ground electric lines from discretionary to limited discretionary.

35-22 Amend row 10 of the Electricity Section of Activity Table 14.1 to change the activity status for above ground electric lines where activity does not comply with Rule 14.5.3.7 from discretionary to controlled, with appropriate controls reserved to Council.

35-23 Amend row 15 of the Electricity Section of Activity Table 14.1 to change the activity status of new above ground high voltage transmission lines from non complying to limited discretionary.

35-24 Clarify the meaning of electricity substation in row 4 and 5 of the Electricity Section of Activity Table 14.1, to determine whether it applies to zone and/or distribution substations.

35-25 Support and retain those parts of the Electricity Section of Activity Table 14.1 that are permitted activities.

35-26 Delete Rule 14.5.1.1.

35-27 Amend 14.5.2.2 as follows;

*'For amenity purposes, where practicable, the visual impact of above ground structures ~~must~~ be remedied or mitigated by landscaping, screening or similar remedial measures.'*

35-28 Amend S14.5.2.3 as follows;

*'Network utility operators shall maintain and regularly upkeep any above ground structures so as to protect the amenity of an area and prevent any health and safety issues arising. The operator must remove any graffiti or posters from the above ground structures within five working days of notification by the Council, where practicable. Where minor utility structure located above ground in the road reserve (~~whether above or below ground~~) are redundant or obsolete they must be removed.'*

35-29 Delete the following sentence from S14.5.2.3 Explanation and Reasons;

~~*'Where a pipe or wire is being replaced, the replacement should be located in the same corridor to avoid unnecessary cluttering of the underground road reserve.'*~~

35-30 Delete 14.5.3.5.1(a)iv), or amend as follows;

*'...iv) do not obstruct access to underground network utilities or identified network utility corridors where practicable*

35-31 Delete 14.5.3.5.1(b), or amend as follows;

*'not located more frequently than one structure every 50 metres where practicable*

35-32 Amend S 14.5.3.5.2 Minor utility structures that serve only one site, to permit minor utility structures to locate on road reserve where a site is unable to accommodate a minor utility structure.

35-33 Amend S 14.5.3.6 Underground service/connection lines, to explain and clarify what is meant by 'recessive colours'.

35-34 Delete S 14.5.3.7(a) or amend so that it is consistent with the current District Plan provisions relating to 'upgrading'.

35-35 Delete S 14.5.3.7(b)(i) and (ii) or amend to give effect to Vector's concerns regarding height and location of pole replacement.

35-36 Amend S 14.6.1.2(ii) as follows, as this sentence is unnecessary;

~~*'...This will include assessment of the extent to which the network utility dominates, or is overbearing in relation to adjacent activities.'*~~

35-37 Amend S 14.6.1.2(xi) second bullet point as follows;

*'there is sufficient space in the road reserve for the planting and maintenance of street trees, the provision of lighting, street furniture, parking, access to the road reserve, where reasonably practicable.'*

35-38 Amend 14.7.1.3 i) as follows;



*i) the adverse visual effect with respect to neighbouring dwellings primarily when viewed from habitable rooms should be avoided, remedied or mitigated, where practicable;*

35-39 Support 14.7.1.3 iii) together with new objectives and policies.

35-40 Support row 23 in Activity Table 14.1 that provides for 'Other new above ground TELECOMMUNICATION SERVICE/CONNECTION LINES' to be a permitted activity in Rural Zones and a limited discretionary activity in all other zones.

35-41 Amend Activity Table 14.1 to include an activity rule that makes new above ground telecommunication lines on the network a permitted activity in the Rural zones and a limited discretionary activity in all other zones.

35-42 Amend Rule 14.7.1.3 so that the matters the Council has restricted its discretion to in relation to new above ground service/connection lines to and from the network also apply to new above ground telecommunication lines on the

35-43 Amend the issues, objectives and policies of this plan change to appropriately recognise submissions 42 and 41.

35-44 Support 8.4.1.1 (b)

35-45 Support proposed amendments to S9.3.2, 9.4.1.3 and 9.5.2, and the introduction of 9.7.2.12.

35-46 Oppose the deletion of the existing District Plan definition of 'upgrading'.

35-47 Delete the proposed new 'maintenance' definition, or alternatively amend it so that it is clear and precise and meets the concerns of Vector as outlined elsewhere in this submission.

35-48 Amend definition of 'Electric (or Electricity) Line or Lines' be amended to the following;

*'Means an electric line as defined in the Electricity Regulations 1997 and its amendments.'*

**Submitter** S B Vial NZ Association of Radio Transmitter Inc  
57b Simon Ellice Dr, Glenfield North Shore City

213-1 to 53 See submission 69-1 to 53

**Submitter** Poul Israelson Vodafone NZ Ltd  
P O Box 5760, Wellesley St Auckland

36-1 Amend the first two bullet points of S 14.3.4 Environmental Results Anticipated as follows, or other consequential relief that will give effect to this submission;

- *A city with network utilities that do not have significant adverse environmental effects, as measured by resident perception surveys.*
- *Whether network utilities are considered to adversely affect amenity values in more sensitive areas such as recreation and coastal areas, and those containing cultural, built and natural heritage. This will be measured by resident perception surveys.*

#### **Further Submissions**

##### **Support**

36-1x278 Vector Ltd P O Box 99882, Newmarket, Auckland,

36-1x456 Broadcast Communications Ltd P O Box 137, Taupo

36-1x1171 Telecom NZ P O Box 3082, Auckland,

36-2 Amend the wording of row 5 of the Miscellaneous Section of Activity Table 14.1 as follows;

*'RR - Any MINOR UTILITY STRUCTURE, which has a total ~~ground coverage~~ volume not exceeding ~~0.5m<sup>2</sup> in area~~ 2.5m<sup>2</sup> and has a height not exceeding ~~4m~~ 1.8m above NATURAL GROUND LEVEL'*

Amend activity classifications to ensure that all zones are permitted.

#### **Further Submissions**

##### **Support**

36-2x279 Vector Ltd P O Box 99882, Newmarket, Auckland,

36-3 Amend the wording of row 6 of the Miscellaneous Section of Activity Table 14.1 as follows;

*'...Does not exceed ~~4m~~ 2m in height above NATURAL GROUND LEVEL, and...'*

Amend activity classifications to ensure that Rural and Business zones are permitted, and all other zones are discretionary

#### **Further Submissions**

##### **Support**

36-3x280 Vector Ltd P O Box 99882, Newmarket, Auckland

36-4 Amend S 14.5.3.5.1b) as follows

*'...b) not be located more frequently than one structure every 50 metres on each side of the road reserve. This rule excludes;*

*i) Minor utility structures that are permitted activities*

*ii) Business zones 7-49*

*iii) Those structures located on Primary arterials as identified in Appendix 1 of the District Plan maps, regardless of the underlying zoning.*

#### **Further Submissions**

##### **Support**

36-4x281 Vector Ltd P O Box 99882, Newmarket, Auckland,

36-5 Amend the wording of row 8 of the Telecommunications Section of Activity Table 14.1 as follows;

*'ANTENNAS attached to a BUILDING (excluding a MAST) that do not exceed;*

*~~4m<sup>2</sup>~~ 1.2m<sup>2</sup> in area or ~~4m~~ 1.2m in diameter, or...'*

#### **Further Submissions**

## Support

36-5x282  
36-5x457

Vector Ltd P O Box 99882, Newmarket, Auckland,  
Broadcast Communications Ltd P O Box 137, Taupo,

36-6 To make the wording consistent with terminology elsewhere in the Table, amend wording in P column of row 8 and C column of row 9 as follows;

*'All ~~other~~ zones other than Residential, Recreation and Special Purpose 3-11 and 13 zones'*

## Further Submissions

### Support

36-6x283

Vector Ltd P O Box 99882, Newmarket, Auckland,

36-7 Delete rule 14.5.3.2.2 b) and amend the wording of row 8 of the Telecommunications Section of Activity Table 14.1 as follows;  
*'ANTENNAS attached to a BUILDING (excluding a MAST) that do not exceed;*

- 1m<sup>2</sup> in area or 1m in diameter, or*
- 1.5m<sup>2</sup> in area or 1.4m in diameter, are located in Business, Rural and Special Purpose 1,2 or 12 zones, ~~and complies with Rule 14.5.3.2.2 b)~~'*

36-8 Amend the wording of row 12 of the Telecommunications Section of Activity Table 14.1 (page 12) as follows;  
*'ANTENNAS attached to a MAST that do not exceed ~~4m<sup>2</sup>~~ 1.2m<sup>2</sup> in area or ~~4m~~ 1.2m in diameter'.*

Amend the Activity Status of the controlled activities in row 11 and 12 to permitted.

## Further Submissions

### Support

36-8x458  
36-8x1172

Broadcast Communications Ltd P O Box 137, Taupo  
Telecom NZ P O Box 3082, Auckland,

36-9 Amend the wording of row 16 of the Telecommunications Section of Activity Table 14.1 (page 12) as follows;

*'Up to 4 ANTENNAS attached to a MAST ~~or streetlight~~, provided that where there are 4 ANTENNAS, only one may be a dish ANTENNA and it may not have a diameter greater than ~~600mm~~ 1.2m'*

Make this activity permitted in Business, Rural and Special Purpose zones, and limited discretionary in all other zones.

36-10 Delete rule 14.5.1.2 (b). Delete the following words from the Explanation and Reasons section of 14.5.1.2 and 14.5.1.3.

*'...To ensure they operate within the New Zealand Standard, cell sites and antennas emitting radio frequency fields are also subject to random, independent monitoring of their radio frequency emissions.'*

## Further Submissions

### Support

36-10x459

Broadcast Communications Ltd P O Box 137, Taupo,

36-11 Amend Rule 14.5.2.2 as follows;

*'For amenity purposes, the visual impact of above ground structures where the base of the structure is visible from a public place or road reserve must shall be remedied or mitigated by landscaping, screening or similar remedial measures. Such landscaping, screening or remedial measures shall not be required for network utilities either located in the road reserve or attached to buildings.'*

36-12 Amend Rule 15.5.2.4 as follows;

*'14.5.2.4 ~~Height~~, Height to Boundary and Yard Controls*

*For all activities located outside the road reserve and above ground, all structures greater than 1.8m high or 10m<sup>2</sup> shall comply with the ~~development controls~~ height to boundary and yard controls for the zones in which they are located.'*

## Further Submissions

### Support

36-12x284  
36-12x1173

Vector Ltd P O Box 99882, Newmarket, Auckland  
Telecom NZ P O Box 3082, Auckland,

36-13 Amend the wording of row 14 of the Telecommunications Section of Activity Table 14.1 (page 12) as follows;

*'RR - ANTENNAS attached to street lights provided that;*

*the ANTENNA does not exceed ~~4m<sup>2</sup>~~ 1.2m<sup>2</sup> in area ~~or 1m in diameter~~, and*

*the height of the ANTENNA does not exceed the height of the existing structure by more than ~~or~~ 2.5m ~~or~~ 25 percent of the height of the structure, whichever is greater, and*

*up to 3 ANTENNAS may be attached to a street light'.*

Amend activity status to permitted in all zones.

Delete row 15 of the Telecommunications Section of Activity Table 14.1.

## Further Submissions

### Support in Part

36-13x1174

Telecom NZ P O Box 3082, Auckland,

36-14 Delete bullet points 4 and 5 in S 14.6.2.6 (i) Antennas and Masts.

## Further Submissions

### Support

36-14x1175

Telecom NZ P O Box 3082, Auckland,

36-15 Amend the definition of Antenna in S 21 as follows;

*'... This includes the antenna's mountings (including any support structure or head arrangement such as shrouds or antenna*

*covers) and radio frequency unit or similar device...'*

#### **Further Submissions**

##### **Support**

36-15x1176 Telecom NZ P O Box 3082, Auckland,

36-16 Amend S 14.6.1.1 as follows;

'The Council reserves control over the following matters for all Controlled activity resource consent applications;

- a) Design, and external appearance ~~and scale~~
- b) ~~Siting and height,~~
- c) ~~Visual impact including~~ landscaping and screening
- d) Effects on streetscape and amenity
- e) ~~Cumulative effects...~~

#### **Further Submissions**

##### **Support**

36-16x285 Vector Ltd P O Box 99882, Newmarket, Auckland,

36-17 Amend S14.6.1.2 as follows;

*'The Council shall assess applications using the following criteria;...*

...

~~iv) The effect on any significant views will be avoided or mitigated, including those from the Coastal Marine Area...~~

...

xi) *Whether structures located in the road reserve will be sited so that;*

- *the potential for traffic and pedestrian safety problems is avoided and recommended clearance distances for pedestrian thoroughfare is preserved (as detailed in North Shore City Council's Infrastructure Design Standards). ~~This assessment must take account of any likely proposed upgrading or improvements of the road...~~*

#### **Further Submissions**

##### **Support**

36-17x286 Vector Ltd P O Box 99882, Newmarket, Auckland,

36-18 Amend 14.6.2.3 b) as follows;

*'The Council reserves control over the matters specified in 14.6.1.1 and the following;...*

...

~~b) Any proposed road alterations~~

...

~~ii) The proposed location of the equipment or structure in relation to any planned road widening, or vertical and / or horizontal realignment of the road...'~~

...'

#### **Further Submissions**

##### **Support**

36-18x287 Vector Ltd P O Box 99882, Newmarket, Auckland,

**Submitter** Mark Wallis

40 St Benedicts St, Newton Auckland

214-1 to 53 See submission 69-1 to 53

**Submitter** B A Warner

23 City View Grove, Harbourview Lower Hutt 5010

215-1 to 53 See submission 69-1 to 53

**Submitter** Jonathan Dick Watercare Services Ltd

Private Bag 92802, Penrose Auckland

37-1 Support in part 9.4.1.1 Permitted Activities item (e). Amend the proposed change as follows;

*'Excavations, except in the foreshore yard, no greater than;*

- ~~1.5 metres in depth, or~~
- *3 metres in depth for the installation and maintenance of ~~existing~~ underground network utilities, as measured by the vertical distance from the top to the bottom of the excavation.'*

#### **Further Submissions**

##### **Support**

37-1x288 Vector Ltd P O Box 99882, Newmarket, Auckland,

**Submitter** Robert John Waters

32 Taft St, Brooklyn Wellington

216-1 to 53 See submission 69-1 to 53

**Submitter** I Watson  
Rd 1 Onerahi, 72 Kohinui Rd Whangarei  
217-1 to 53 See submission 69-1 to 53

**Submitter** S J White  
54a Auckland Rd, Greenmeadows Napier  
218-1 to 53 See submission 69-1 to 53

**Submitter** John Nicholas Wigley  
43 Ocean View Rd, Northcote North Shore City  
219-1 to 53 See submission 69-1 to 53

**Submitter** David JH Wilkins  
12 Valdese Rise, Browns Bay North Shore City  
220-1 to 53 See submission 69-1 to 53

**Submitter** David Wilkins  
23 Red Hill Road, Papakura, Auckland  
67-1 to 53 See submission 69-1 to 53

**Submitter** Richard Neill Wilkinson  
19 Island Bay Rd, Beachhaven North Shore City  
221-1 to 53 See submission 69-1 to 53

**Submitter** Ronald James Willcocks New Zealand Amateur of Radio Transmitters (Inc)  
35 Puriri St, Kamo Whangarei  
222-1 to 53 See submission 69-1 to 53

**Submitter** David Stewart Williams Branch 18 NZART  
15b Main Rd, Wainuiomata 5104 Lower Hutt  
223-1 to 53 See submission 69-1 to 53

**Submitter** D A Wilson North Shore Amateur Radio Club  
1/35 Rangitoto Tce, Milford North Shore City  
224-1 to 53 See submission 69-1 to 53

**Submitter** Ian Wilson  
131 Weatherly Rd, Torbay North Shore City  
225-1 to 53 See submission 69-1 to 53

**Submitter** John Philip Wilson  
10 Brian Ave, Milford North Shore City  
38-1 Delete S 14.6.2.6 Antennas and Masts assessment criteria.  
38-2 Oppose Plan change as the present regulations are adequate if interpreted clearly and consistently. Oppose relaxation of rules regarding cell sites and oppose rule changes regarding antennas, satellite reflectors and radio frequency  
38-3 Support rule change to keep high voltage transmission lines away from constantly occupied areas. Electromagnetic field radiation should be presumed harmful.

**Further Submissions**

**Oppose**  
38-3x523 Transpower New Zealand Ltd P O Box 33817, Takapuna, North Shore City,

**Support**  
38-3x289 Vector Ltd P O Box 99882, Newmarket, Auckland,  
radiation should be presumed harmful.

**Submitter** Mark Windram  
2 Awanui St, Birkenhead Point North Shore City  
226-1 to 53 See submission 69-1 to 53

**Submitter** Kenneth Windsor  
36 Chatswood Gr, Birkenhead North Shore City  
227-1 to 53 See submission 69-1 to 53

**Submitter** J Wolf  
12 Celeste Place, Glenfield, North Shore City  
68-1 to 53 See submission 69-1 to 53

**Submitter** MK Woodfield

72 Salamanca Rd, Sunnynook North Shore City

228-1 to 53 See submission 69-1 to 53

**Submitter** Alan Wooller

40 Powrie St, Glenfield North Shore City

39-1 Amend definition of Network utilities to ensure that activities that do not form part of a network utility are not inadvertently treated as such. Amend to exclude the following;

*'baby monitors, radio controlled toys, garage door openers, amateur radio, microwave ovens, citizens radio, TV remote controls and the like'*.

39-2 Amend definition of Network utilities in S 21 as follows: '...d) privately owned aerials and antennas necessary for the operation of the network utility; and...'

**Submitter** Craig Hind Woosh Wireless Ltd C/- c/o

P O Box 6345, Auckland

40-1 All changes sought in this submission include the need to make changes as necessary to consequential provisions to give effect to the changes sought.

40-2 Support and retain objectives 14.3.1 - 14.3.3

#### **Further Submissions**

##### **Support**

40-2x290 Vector Ltd P O Box 99882, Newmarket, Auckland,  
40-3 Support and retain policy 14.3.2.1.

#### **Further Submissions**

##### **Support**

40-3x291 Vector Ltd P O Box 99882, Newmarket, Auckland,  
40-4 Delete 14.3.2.7 as it unduly restricts the placement of utilities on Reserve land.

#### **Further Submissions**

##### **Support**

- 40-4x292 Vector Ltd P O Box 99882, Newmarket, Auckland,
- 40-5 Oppose policy 14.3.2.8 in part. Clarification is required as to what 'co-location of structures', the 'shared use of structures', and the 'use of existing network utility corridors' mean. Define these terms in S21.
- 40-6 Oppose activity status of underground network utilities in Recreation 1 zone, in row 2 of Table 14.1 Activity Status Miscellaneous. Amend this from discretionary to controlled.
- 40-7 Oppose activity status of minor utility structure in Recreation 1 zone, in row 6 of Table 14.1 Activity Status Miscellaneous. Amend this from discretionary to controlled.
- 40-8 Oppose activity status of underground network utilities in Recreation 1 zone, in row 2 of Table 14.1 Activity Status Telecommunications. Amend this from discretionary to controlled.
- 40-9 Support and retain row 3 of Table 14.1 Activity Status Telecommunications, underground network utilities for Telecommunication networks.
- 40-10 Oppose activity status of telecommunication kiosks outside the road reserve in Recreation 1 zone, in row 4 of Table 14.1 Activity Status Telecommunications. Amend this from limited discretionary to controlled.
- 40-11 Support activity status of telecommunication kiosks within the road reserve, in row 5 of Table 14.1 Activity Status Telecommunications.
- 40-12 Oppose activity status of aerials, in row 6 of Table 14.1 Activity Status Telecommunications. Where aerials do not comply with 14.5.3.1, amend the activity status from limited discretionary to controlled.
- 40-13 Support and retain row 7 of Table 14.1 Activity Status Telecommunications (where Antennas attached to a building are permitted in all zones).
- 40-14 Support and retain row 8 of Table 14.1 Activity Status Telecommunications (where Antennas attached to a building are permitted or controlled in all zones).
- 40-15 Oppose activity status in row 9 of Table 14.1 Activity Status Telecommunications (where Antennas attached to a building are do not exceed 2.5m<sup>2</sup> or 2m in diameter). The activity status should be controlled activity in all zones.
- 40-16 Oppose activity status in row 10 of Table 14.1 Activity Status Telecommunications (where Antennas attached to a building are permitted or controlled activities and do not comply with Rule 14.5.3.2). The activity status should be a controlled activity in all zones.
- 40-17 Oppose activity status in row 11 of Table 14.1 Activity Status Telecommunications (Masts in accordance with the height limits in 14.5.3.3). Amend all activity statuses in this rule so they are a controlled activity in all zones.
- 40-18 Oppose activity status in row 12 of Table 14.1 Activity Status Telecommunications (Antennas attached to a mast that do not exceed 1m<sup>2</sup> in area or 1m in diameter). Amend activity statuses in this rule so they are a controlled activity in all zones.
- 40-19 Oppose activity status in row 13 of Table 14.1 Activity Status Telecommunications (Antennas attached to a mast that do not exceed 2.5m<sup>2</sup> in area or 2m in diameter). Amend activity statuses in this rule so they are a controlled activity in all zones.
- 40-20 Oppose activity status in row 14 of Table 14.1 Activity Status Telecommunications (Antennas attached to street lights). Amend activity statuses in this rule so they are a controlled activity in all zones.
- 40-21 Oppose row 15 of Table 14.1 Activity Status Telecommunications (up to 3 Antennas attached to a mast or street light). Amend all activity statuses in this rule so they are a controlled activity in all zones.
- 40-22 Oppose activity status in row 16 of Table 14.1 Activity Status Telecommunications (up to 4 Antennas attached to a mast or street light). Amend activity statuses in this rule so they are a controlled activity in all zones.
- 40-23 Oppose activity status in row 17 of Table 14.1 Activity Status Telecommunications (Antennas, aerials and masts not otherwise provided for). Amend activity statuses in this rule so they are a controlled activity in all zones.
- 40-24 Delete 14.5.1.2(b)(ii) as the applicant should not bear the monitoring cost if the activity is permitted.
- 40-25 Delete 14.5.2.4 as it restricts the ability to establish a city wide telecommunication network.
- 40-26 Oppose in part S 14.5.3.1.1(i). Amend the following wording to allow for aerials on existing buildings that are over the height limit for the zone.  
*'Height - The aerial shall not exceed the height of the point of attachment to the building or the height of the zone by more than the following...'*
- 40-27 Delete S14.5.3.1.2(i); *'Only one aerials is permitted per mast'*.
- 40-28 Amend S14.5.3.1.2(ii) Dimensions of aerials, to provide for aerials up to 5.0m in height above the mast(excluding the

- mountings).
- 40-29 Delete S 14.5.3.2.1(a)(ii), which concerns the numbers of permitted antennas per residential unit.
- 40-30 Delete S 14.5.3.2.1(a)(iii) which concerns the distance between an antenna and the site boundary.
- 40-31 Delete S 14.5.3.2.2(a)(ii) which concerns the numbers of antenna attached to the façade of residential units in the business zones.

#### **Further Submissions**

##### **Support**

40-31x1177 Telecom NZ P O Box 3082, Auckland,

##### **Support in Part**

40-31x1190 Vodafone NZ Ltd P O Box 5760, Wellesley St, Auckland,

40-31x1203 TelstraClear Ltd P O Box 5760, Wellesley St, Auckland,

- 40-32 Amend 14.5.3.3 Height of masts and antennas attached to masts, to provide for maximum height for masts in all zones to be 20m. Also amend to enable antenna on the mast to be provided for above the maximum mast height.
- 40-33 Oppose assessment criteria 14.6.1.2(xii) second bullet point;  
*'Whether locating the network utility on recreation land is consistent with the objectives and policies of the relevant Recreation zone'*  
Amend objectives and policies of the Recreation zone to make provision for telecommunication facilities.
- 40-34 Support and retain assessment criteria 14.6.1.2(ix);  
*'Whether it is technically, economically and practically reasonable to co-locate structures'*

#### **Further Submissions**

##### **Support**

40-34x460 Broadcast Communications Ltd P O Box 137, Taupo,

40-35 Oppose assessment criteria 14.7.1.6(a)(ii). Delete the wording;  
~~*'Structures are discouraged on prominent ridge lines and hilltops'*~~

40-36 Support and retain S21 definition of antenna. The definition is supported, particularly the explanation of how dimensions are measured.

**Submitter** Clarence Robert Young

1 Aotearoa Tce, Murrays Bay North Shore City

41-1 Amend 14.5.1 so that aerials can comply with this section.

41-2 Amend 14.5.3 to increase aerial height and pole size, to ensure that households can receive adequate TV reception whilst complying with this section.

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
John Andrews	69-1	Accept				
John Andrews	69-2	Accept in part				
John Andrews	69-3	Accept in part				
John Andrews	69-4	Accept				
John Andrews	69-5	Accept				
John Andrews	69-6	Reject				
John Andrews	69-7	Reject				
John Andrews	69-8	Reject				
John Andrews	69-9	Reject				
John Andrews	69-10	Reject				
John Andrews	69-11	Reject				
John Andrews	69-12	Accept				
John Andrews	69-13	Reject				
John Andrews	69-14	Reject				
John Andrews	69-15	Reject				
John Andrews	69-16	Accept in part				
John Andrews	69-17	Reject				
John Andrews	69-18	Accept in part				
John Andrews	69-19	Accept in part				
John Andrews	69-20	Reject				
John Andrews	69-21	Accept				
John Andrews	69-22	Accept in part				
John Andrews	69-23	Accept				
John Andrews	69-24	Accept				
John Andrews	69-25	Accept				
John Andrews	69-26	Reject				
John Andrews	69-27	Accept in part				
John Andrews	69-28	Reject				
John Andrews	69-29	Accept in part				
John Andrews	69-30	Accept in part				
John Andrews	69-31	Accept in part				
John Andrews	69-32	Accept in part				
John Andrews	69-33	Accept in part				
John Andrews	69-34	Reject				
John Andrews	69-35	Reject				
John Andrews	69-36	Reject				
John Andrews	69-37	Accept				
John Andrews	69-38	Accept				
John Andrews	69-39	Accept				
John Andrews	69-40	Reject				
John Andrews	69-41	Reject				
John Andrews	69-42	Accept in part				
John Andrews	69-43	Accept in part				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
John Andrews	69-44	Reject				
John Andrews	69-45	Reject				
John Andrews	69-46	Reject				
John Andrews	69-47	Accept				
John Andrews	69-48	Reject				
John Andrews	69-49	Reject				
John Andrews	69-50	Reject				
John Andrews	69-51	Accept in part				
John Andrews	69-52	Reject				
John Andrews	69-53	Reject				
Michelle Androu	1-1	Reject	Broadcast Communications Ltd	1-1x441	Oppose	Accept
Michelle Androu	1-1	Reject	Sally Elton	1-1x145	Support	Reject
Michelle Androu	1-2	Reject	Sally Elton	1-2x146	Support	Reject
David Anthony Arnet	70-1 to 53	See 69-1 to 53				
R R Arnold	71-1 to 53	See 69-1 to 53				
Ian T Ashley	42-1	Accept in part				
Ian T Ashley	42-2	Accept				
Ian T Ashley	42-3	Accept				
Samuel John Ashton	43-1	Accept in part				
Samuel John Ashton	43-2	Accept				
Samuel John Ashton	43-3	Accept				
R Badcock	72-1 to 53	See 69-1 to 53				
Wendy Bailey	2-1	Accept in part				
David L Balluntyne	73-1 to 53	See 69-1 to 53				
Stanley Barnes	74-1 to 53	See 69-1 to 53				
Roger W Barraud	75-1 to 53	See 69-1 to 53				
Graham Beagley	76-1 to 53	See 69-1 to 53				
James William Kenneth Begg	77-1 to 53	See 69-1 to 53				
Dr David Black	4-1	Accept				
Dr David Black	4-2	Accept	M D Newman	4-2x664	Support	Accept
Dr David Black	4-3	Reject	M D Newman	4-3x665	Support	Reject
N W Blackbourn	78-1 to 53	See 69-1 to 53				
David J Blackett	79-1 to 53	See 69-1 to 53				
Pamela Blackett	80-1 to 53	See 69-1 to 53				
T G Borman	44-1	Accept				
T G Borman	44-2	Accept in part				
T G Borman	44-3	Accept in part				
T G Borman	44-4	Accept				
T G Borman	44-5	Accept				
T G Borman	44-6	Reject				
T G Borman	44-7	Reject				
T G Borman	44-8	Reject				
T G Borman	44-9	Reject				



Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
T G Borman	44-10	Reject				
T G Borman	44-11	Reject				
T G Borman	44-12	Accept				
Ralph Frederick Boshier	81-1 to 53	See 69-1 to 53				
Rosemary Boshier	82-1 to 53	See 69-1 to 53				
Leo Boyle	83-1 to 53	See 69-1 to 53				
Dr Charles Bradfield	84-1 to 53	See 69-1 to 53				
Sylvia Joy Bradfield	85-1 to 54	See 69-1 to 53				
G B Bramwell	86-1 to 53	See 69-1 to 53				
Broadcast Communications Ltd	5-1	Accept in part	Telecom NZ	5-1x1161	Support in Part	Accept
Broadcast Communications Ltd	5-2	Reject				
Broadcast Communications Ltd	5-3	Accept in part				
Broadcast Communications Ltd	5-4	Reject	The Freeview Group	5-4x659	Support	Reject
Broadcast Communications Ltd	5-5	Accept in part				
Broadcast Communications Ltd	5-6	Accept in part				
Broadcast Communications Ltd	5-7	Accept in part				
Broadcast Communications Ltd	5-8	Accept in part				
Broadcast Communications Ltd	5-9	Accept	Vodafone NZ Ltd	5-9x1178	Support	Accept
Broadcast Communications Ltd	5-9	Accept	TeistraClear Ltd	5-9x1191	Support	Accept
Broadcast Communications Ltd	5-10	Reject				
Broadcast Communications Ltd	5-11	Accept in part	Telecom NZ	5-11x1162	Support	Accept in part
Broadcast Communications Ltd	5-11	Accept in part	Vodafone NZ Ltd	5-11x1179	Support	Accept in part
Broadcast Communications Ltd	5-11	Accept in part	TeistraClear Ltd	5-11x1192	Support	Accept in part
Broadcast Communications Ltd	5-12	Reject	Vodafone NZ Ltd	5-12x1180	Support	Reject
Broadcast Communications Ltd	5-12	Reject	TeistraClear Ltd	5-12x1193	Support	Reject
Broadcast Communications Ltd	5-13	Reject	Vodafone NZ Ltd	5-13x1181	Support	Reject
Broadcast Communications Ltd	5-13	Reject	TeistraClear Ltd	5-13x1194	Support	Reject
Broadcast Communications Ltd	5-14	Reject	The Freeview Group	5-14x660	Support	Reject
R A Brown	87-1 to 53	See 69-1 to 53				
Rixt Brownlow	6-1	Reject				
Rixt Brownlow	6-2	Reject				
Howard Buxton	88-1 to 53	See 69-1 to 53				
Roger Cadness	89-1 to 53	See 69-1 to 53				
Jansen Cardy	90-1 to 53	See 69-1 to 53				
Tony Case	91-1 to 53	See 69-1 to 53				
Peter Leonard Cawte	92-1 to 53	See 69-1 to 53				
Charlie Chen	93-1 to 53	See 69-1 to 53				
R Clarke	7-1	Accept in part				
K J Coates	94-1 to 53	See 69-1 to 53				
Robert Stanley Cole	95-1 to 53	See 69-1 to 53				
John Collin	96-1 to 53	See 69-1 to 53				
Geoffrey Cooke	97-1 to 53	See 69-1 to 53				
Len Cooper	8-1	Reject				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
Priscilla Anne Cooper	9-1	Reject				
Mark Corrigan	98-1 to 53	See 69-1 to 53				
Tania Corrigan	99-1 to 53	See 69-1 to 53				
Peter Crowhurst	100-1 to 53	See 69-1 to 53				
David Crozier	101-1 to 53	See 69-1 to 53				
Brian Cumber	10-1	Accept in part				
Brian Cumber	10-2	Accept				
Michael Cummin	102-1 to 53	See 69-1 to 53				
Clive Curtis	103-1 to 53	See 69-1 to 53				
Joseph Steven Alexander Dale	104-1 to 53	See 69-1 to 53				
Leonard John Dawe	105-1 to 53	See 69-1 to 53				
E K Dawson	106-1 to 53	See 69-1 to 53				
Rory Deans	46-1	Accept				
Rory Deans	46-2	Accept in part				
Rory Deans	46-3	Accept in part				
Rory Deans	46-4	Accept				
Rory Deans	46-5	Accept				
Rory Deans	46-6	Reject				
Rory Deans	46-7	Reject				
Rory Deans	46-8	Reject				
Rory Deans	46-9	Reject				
Rory Deans	46-10	Reject				
Rory Deans	46-11	Reject				
Rory Deans	46-12	Accept				
Robert John deBurgh	107-1 to 53	See 69-1 to 53				
Peter Dekker	108-1 to 53	See 69-1 to 53				
Ronald de Koning	109-1 to 53	See 69-1 to 53				
John Alex Devenport	111-1 to 53	See 69-1 to 53				
E I Deverick	110-1 to 53	See 69-1 to 53				
Keith Dix	112-1 to 53	See 69-1 to 53				
Peter Dopheide	47-1	Accept in part				
Kenneth Duncan	113-1 to 53	See 69-1 to 53				
John R Dunn	114-1 to 53	See 69-1 to 53				
John Sinclair Duske	115-1 to 53	See 69-1 to 53				
East Coast Bays Coastal Protection Society	11-1	Accept	Vector Ltd	11-1x236	Oppose	Reject
East Coast Bays Coastal Protection Society	11-2	Accept	Vector Ltd	11-2x237	Oppose	Reject
East Coast Bays Coastal Protection Society	11-3	Accept				
Econet Wireless NZ ltd	12-1	Reject				
Econet Wireless NZ ltd	12-2	Reject				
Econet Wireless NZ ltd	12-3	Accept				
D N Ellis	48-1 to 53	See 69-1 to 53				
D N Ellis	48-54	Accept in part				
Neill Martin Ellis	116-1 to 53	See 69-1 to 53				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
James Michael Elvy	117-1 to 53	See 69-1 to 53				
John Elvy	118-1 to 53	See 69-1 to 53				
Nicholas Emery	119-1 to 53	See 69-1 to 53				
Heinrich Falkner	120-1 to 53	See 69-1 to 53				
I G Fletcher	121-1 to 53	See 69-1 to 53				
Mark Foster	122-1 to 53	See 69-1 to 53				
Ann Fraser	123-1 to 53	See 69-1 to 53				
David Fraser	124-1 to 53	See 69-1 to 53				
J C Freeman	125-1 to 53	See 69-1 to 53				
The Freerview Group	13-1	Accept in part	Broadcast Communications Ltd	13-1x442	Support	Accept
Brian S Fryer	126-1 to 53	See 69-1 to 53				
Dr Ross Garrett	14-1	Accept in part				
Dr Ross Garrett	14-2	Accept	M D Newman	14-2x439	Support	Accept
Dr Ross Garrett	14-3	Accept in part	M D Newman	14-3x661	Support	Accept
George F George	127-1 to 53	See 69-1 to 53				
Francis Giles	128-1 to 53	See 69-1 to 53				
Geoffrey Herbert Gillman	129-1 to 53	See 69-1 to 53				
Randall Quinton Goldfinch	130-1 to 53	See 69-1 to 53				
Nigel Goldstone	131-1 to 53	See 69-1 to 53				
Alwyn Goodenough	132-1 to 53	See 69-1 to 53				
Jacqueline Goodenough	113-1 to 53	See 69-1 to 53				
Robert Grayson	134-1 to 53	See 69-1 to 53				
Greenhith Residents, Ratepayers and Community Hall Association Inc	230-1	Accept	M D Newman	230-1x465	Oppose	Reject
Greenhith Residents, Ratepayers and Community Hall Association Inc	230-1	Accept	Vector Ltd	230-1x301	Oppose	Reject
Greenhith Residents, Ratepayers and Community Hall Association Inc	230-1	Accept	Broadcast Communications Ltd	230-1x429	Oppose in Part	Reject
Wayne Griffin	135-1 to 53	See 69-1 to 53				
Warren Harris	136-1 to 53	See 69-1 to 53				
Neil Graham Harsant	137-1 to 53	See 69-1 to 53				
Stephen Ronald Hayman	138-1 to 53	See 69-1 to 53				
Vaughan Henderson	15-1	Reject				
Vaughan Henderson	15-2	Accept in part				
Vaughan Henderson	15-3	Accept				
Vaughan Henderson	15-4	Accept				
Brian Heywood	16-1	Accept in part	M D Newman	16-1x461	Support	Accept
Brian Heywood	16-2	Accept	M D Newman	16-2x662	Support	Accept
John Hirtzel	139-1 to 53	See 69-1 to 53				
Tim Holden	140-1 to 53	See 69-1 to 53				
H R Holtz	141-1 to 53	See 69-1 to 53				
John Hotchin-Davies	231-1	Reject	M D Newman	231-1x462	Oppose	Accept
Kenneth Bremner Huffadine	17-1	Reject	Vector Ltd	17-1x238	Support	Reject
Kenneth Bremner Huffadine	17-2	Accept	M D Newman	17-2x464	Oppose	Reject
Kenneth Bremner Huffadine	17-3	Reject				
Kenneth Bremner Huffadine	17-4	Reject				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
Kenneth Bremner Huffadine	17-5	Reject				
G Humphrey	49-1	Accept in part				
G Humphrey	49-2	Accept				
G Humphrey	49-3	Accept				
Glenise Irving	18-1	Reject				
Glenise Irving	18-2	Reject	Broadcast Communications Ltd	18-2x443	Oppose	Accept
Blair Jackson	142-1 to 53	See 69-1 to 53				
JFC Johnson	143-1 to 53	See 69-1 to 53				
Dave Johnston	50-1	Accept in part				
Dave Johnston	50-2	Accept				
Dave Johnston	50-3	Accept				
W F Jopling	144-1 to 53	See 69-1 to 53				
Donald Henry Joseph	145-1 to 53	See 69-1 to 53				
Richard Kane	19-1	Reject				
David Karrasch	51-1	Accept in part				
David Karrasch	51-2	Accept				
David Karrasch	51-3	Accept				
Shane Kuzmanic	232-1	Accept	Broadcast Communications Ltd	232-1x440	Support	Accept
James John Lamberton	146-1 to 53	See 69-1 to 53				
Colin Lee	147-1 to 53	See 69-1 to 53				
Jung Sik Lee	148-1 to 53	See 69-1 to 53				
Bob Leenstra	233-1	Accept	M D Newman	233-1x466	Oppose	Reject
Bob Leenstra	233-1	Accept	Vector Ltd	233-1x300	Oppose	Reject
Helen I Leinwand	149-1 to 53	See 69-1 to 53				
Robert Leinwand	150-1 to 53	See 69-1 to 53				
P J Lovegrove	151-1 to 53	See 69-1 to 53				
W David MacClement	152-1 to 53	See 69-1 to 53				
Colin David Mackay	153-1 to 53	See 69-1 to 53				
Kurt Marquart	54-1	Reject	Vector Ltd	54-1x293	Oppose	Accept
Kurt Marquart	54-2	Accept in part	Vector Ltd	54-2x294	Oppose	Reject
Kurt Marquart	54-3	Accept in part	Vector Ltd	54-3x295	Oppose	Accept in part
Kurt Marquart	54-4	Accept	Vector Ltd	54-4x296	Oppose	Reject
Kurt Marquart	54-4	Accept	Transpower New Zealand Ltd	54-4x521	Oppose	Reject
Kurt Marquart	54-5	Reject	Vector Ltd	54-5x297	Oppose	Accept
George Mathew	154-1 to 53	See 69-1 to 53				
James Francis Matthews	155-1 to 53	See 69-1 to 53				
William McCafferty	156-1 to 56	See 69-1 to 53				
Ian McCaw	157-1 to 53	See 69-1 to 53				
Ken McCormack	158-1 to 53	See 69-1 to 53				
Karen McGlone	159-1 to 53	See 69-1 to 53				
Grant McGregor	160-1 to 53	See 69-1 to 53				
Philip McHugh	161-1 to 53	See 69-1 to 53				
Bruce McPike	162-1 to 53	See 69-1 to 53				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
James Alexander Meachen	163-1 to 53	See 69-1 to 53				
R N Miller	55-1	Accept				
R N Miller	55-2	Accept in part				
R N Miller	55-3	Accept in part				
R N Miller	55-4	Accept				
R N Miller	55-5	Accept				
R N Miller	55-6	Reject				
R N Miller	55-7	Reject				
R N Miller	55-8	Reject				
R N Miller	55-9	Reject				
R N Miller	55-10	Reject				
R N Miller	55-11	Reject				
R N Miller	55-12	Accept				
Callum Roy Moates	164-1 to 53	See 69-1 to 53				
Donald Moore	165-1 to 53	See 69-1 to 53				
James Moore	166-1 to 53	See 69-1 to 53				
Peter John Moore	167-1 to 53	See 69-1 to 53				
Giovanni Moretti	168-1 to 53	See 69-1 to 53				
Peter Mott	169-1 to 53	See 69-1 to 53				
J Muller	170-1 to 53	See 69-1 to 53				
Peter Scott Neill	171-1 to 53	See 69-1 to 53				
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Neil Walter Prebble	20-1x320	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Peter Pohl	20-1x587	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	John Stuart	20-1x339	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Maurice Bowman	20-1x28	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	David G King	20-1x533	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Robert John deBurgh	20-1x650	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Harold A Boyd	20-1x393	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Colin Stephens	20-1x420	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Dr John R L Walker	20-1x641	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Ralph Frederick Boshier	20-1x348	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Warren Harris	20-1x330	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	John F G Bell	20-1x19	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Phillip King	20-1x402	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Leslie R Mellars	20-1x55	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Rosemary Boshier	20-1x357	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Heinrich Falkner	20-1x10	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	K McVie	20-1x384	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	P W Dent	20-1x1	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	James Percival Rowe	20-1x375	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Robert Stanley Cole	20-1x578	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Geoff and Bev Gillman	20-1x596	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Hugh Gordon Cooper	20-1x512	Support	Accept

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Paul M Penberthy	20-1x227	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Jeff King	20-1x46	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	James Alexander Meachen	20-1x569	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Tony Terezow	20-1x302	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Charles Malcolm George Moates	20-1x37	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Cameron Neill Mumford	20-1x411	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Graham Barton	20-1x366	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Mathew Thomas Mawston	20-1x201	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	The NZ Association of Radio Transmitters	20-1x560	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	J C Freeman	20-1x476	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	I M Sexton	20-1x485	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	JFC Johnson	20-1x209	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	W O'Brien	20-1x218	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Liana Goodall	20-1x136	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Jason Wallace	20-1x192	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Tony Case	20-1x156	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	David Anthony Arnet	20-1x73	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	R A Brown	20-1x503	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	P L Smith	20-1x551	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Andrew Cooke	20-1x127	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Vern Morris	20-1x64	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Stanley Barnes	20-1x623	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	James Charles Pye	20-1x430	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	J M Seakins	20-1x494	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Robert John Waters	20-1x311	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	D Wadhams	20-1x118	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Peter John Moore	20-1x183	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Nigel Goldstone	20-1x542	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	A N Marsden	20-1x91	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Colin Hulse	20-1x605	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Barry J Ward	20-1x174	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Christopher Billing	20-1x100	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Alfred George Kennedy	20-1x82	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Roger Smith	20-1x109	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	John Andrews	20-1x614	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Brian Heywood	20-1x467	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Rory Deans	20-1x165	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Jasper Robert Sewell	20-1x632	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	Derek Stansfield	20-1x147	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-1	Accept in part	J Sutton Burtenshaw	20-1x1146	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	A N Marsden	20-2x92	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Roger Smith	20-2x110	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Dr John R L Walker	20-2x642	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Maurice Bowman	20-2x29	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	I M Sexton	20-2x486	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Leslie R Mellars	20-2x56	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Jeff King	20-2x47	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Tony Terezow	20-2x303	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Charles Malcolm George Moates	20-2x38	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	David G King	20-2x534	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Hugh Gordon Cooper	20-2x513	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Heinrich Falkner	20-2x11	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	JFC Johnson	20-2x210	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Robert John deBurgh	20-2x651	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Andrew Cooke	20-2x128	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Christopher Billing	20-2x101	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	R A Brown	20-2x504	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Jasper Robert Sewell	20-2x633	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Nigel Goldstone	20-2x543	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Alfred George Kennedy	20-2x83	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	J M Seakins	20-2x495	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Vern Morris	20-2x65	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	P W Dent	20-2x2	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	David Anthony Arnet	20-2x74	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	J C Freeman	20-2x477	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	D Wadham	20-2x119	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Robert John Waters	20-2x312	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Peter Pohl	20-2x588	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	P L Smith	20-2x552	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	W Obrien	20-2x219	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Derek Stansfield	20-2x148	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Brian Heywood	20-2x468	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Stanley Barnes	20-2x624	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Cameron Neill Mumford	20-2x412	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Liana Goodall	20-2x137	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Graham Barton	20-2x367	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	The NZ Association of Radio Transmitters	20-2x561	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Rosemary Boshier	20-2x358	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	James Alexander Meachen	20-2x570	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	K McVie	20-2x385	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Ralph Frederick Boshier	20-2x349	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Paul M Penberthy	20-2x228	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Colin Hulse	20-2x606	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Tony Case	20-2x157	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	John Stuart	20-2x340	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Robert Stanley Cole	20-2x579	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Barry J Ward	20-2x175	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Colin Stephens	20-2x421	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Phillip King	20-2x403	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Roy Deans	20-2x166	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	John F G Bell	20-2x20	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Warren Harris	20-2x331	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	James Percival Rowe	20-2x376	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Geoff and Bev Gillman	20-2x597	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	John Andrews	20-2x615	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Mathew Thomas Mawston	20-2x202	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Neil Walter Prebble	20-2x321	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Peter John Moore	20-2x184	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	James Charles Pye	20-2x431	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Jason Wallace	20-2x193	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	Harold A Boyd	20-2x394	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-2	Reject	J Sutton Burtenshaw	20-2x1147	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Christopher Billing	20-3x102	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	John Andrews	20-3x616	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	D Wadham	20-3x120	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	A N Marsden	20-3x93	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Derek Stansfield	20-3x149	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Liana Goodall	20-3x138	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	David G King	20-3x535	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Tony Terezow	20-3x304	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Phillip King	20-3x404	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Charles Malcolm George Moates	20-3x39	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	David Anthony Arnet	20-3x75	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	I M Sexton	20-3x487	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	W O'Brien	20-3x220	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Jasper Robert Sewell	20-3x634	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	James Alexander Meachen	20-3x571	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	The NZ Association of Radio Transmitters	20-3x562	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Roger Smith	20-3x111	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	P L Smith	20-3x553	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Brian Heywood	20-3x469	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Alfred George Kennedy	20-3x84	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Peter John Moore	20-3x185	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Stanley Barnes	20-3x625	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	James Charles Pye	20-3x432	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	J M Seakins	20-3x496	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Andrew Cooke	20-3x129	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Roy Deans	20-3x167	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Jason Wallace	20-3x194	Support	Reject



Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	J C Freeman	20-3x478	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Maurice Bowman	20-3x30	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Barry J Ward	20-3x176	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	JFC Johnson	20-3x211	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Mathew Thomas Mawston	20-3x203	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Neil Walter Prebble	20-3x322	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Geoff and Bev Gillman	20-3x598	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Jeff King	20-3x48	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Paul M Penberthy	20-3x229	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	R A Brown	20-3x505	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Colin Hulise	20-3x607	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Leslie R Mellars	20-3x57	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Robert John deBurgh	20-3x652	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Tony Case	20-3x158	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Cameron Neill Mumford	20-3x413	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Colin Stephens	20-3x422	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	John F G Bell	20-3x21	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	P W Dent	20-3x3	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Warren Harris	20-3x332	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Vern Morris	20-3x66	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Harold A Boyd	20-3x395	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Robert Stanley Cole	20-3x580	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Peter Pohl	20-3x589	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Hugh Gordon Cooper	20-3x514	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	John Stuart	20-3x341	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Robert John Waters	20-3x313	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Dr John R L Walker	20-3x643	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Ralph Frederick Boshier	20-3x350	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	K McVie	20-3x386	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Heinrich Falkner	20-3x12	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Rosemary Boshier	20-3x359	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Nigel Goldstone	20-3x544	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	Graham Barton	20-3x368	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	James Percival Rowe	20-3x377	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-3	Reject	J Sutton Burtenshaw	20-3x1148	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Alfred George Kennedy	20-4x85	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Colin Stephens	20-4x423	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Mathew Thomas Mawston	20-4x204	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	J M Seakins	20-4x497	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Jason Wallace	20-4x195	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Vern Morris	20-4x67	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	David Anthony Arnet	20-4x76	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	JFC Johnson	20-4x212	Support	Accept

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Paul M Penberthy	20-4x230	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	R A Brown	20-4x506	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Geoff and Bev Gillman	20-4x599	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Peter John Moore	20-4x186	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	P L Smith	20-4x554	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Cameron Neill Mumford	20-4x414	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	John Andrews	20-4x617	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	James Charles Pye	20-4x433	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	A N Marsden	20-4x94	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Charles Malcolm George Moates	20-4x40	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	I M Sexton	20-4x488	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Barry J Ward	20-4x177	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Leslie R Mellars	20-4x58	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Tony Terezow	20-4x305	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Phillip King	20-4x405	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Robert John deBurgh	20-4x653	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Hugh Gordon Cooper	20-4x515	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Colin Hulse	20-4x608	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Jeff King	20-4x49	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Robert John Waters	20-4x314	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	James Alexander Meachen	20-4x572	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Rory Deans	20-4x168	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Christopher Billing	20-4x103	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Roger Smith	20-4x112	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Neil Walter Prebble	20-4x323	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Harold A Boyd	20-4x396	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Tony Case	20-4x159	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Nigel Goldstone	20-4x545	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Peter Pohl	20-4x590	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	W O'Brien	20-4x221	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Warren Harris	20-4x333	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	John F G Bell	20-4x22	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Dr John R L Walker	20-4x644	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Andrew Cooke	20-4x130	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Brian Heywood	20-4x470	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	James Percival Rowe	20-4x378	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Graham Barton	20-4x369	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	David G King	20-4x536	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Maurice Bowman	20-4x31	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	The NZ Association of Radio Transmitters	20-4x563	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Stanley Barnes	20-4x626	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	John Stuart	20-4x342	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Jasper Robert Sewell	20-4x635	Support	Accept

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Ralph Frederick Boshier	20-4x351	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	K McVie	20-4x387	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	D Wadham	20-4x121	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Liana Goodall	20-4x139	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Rosemary Boshier	20-4x360	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Derek Stansfield	20-4x150	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	J C Freeman	20-4x479	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Heinrich Falkner	20-4x13	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	P W Dent	20-4x4	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	Robert Stanley Cole	20-4x581	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-4	Accept in part	J Sutton Burtenshaw	20-4x1149	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	P W Dent	20-5x5	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Robert Stanley Cole	20-5x582	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Graham Barton	20-5x370	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Stanley Barnes	20-5x627	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Jasper Robert Sewell	20-5x636	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Barry J Ward	20-5x178	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Alfred George Kennedy	20-5x86	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Jason Wallace	20-5x196	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	A N Marsden	20-5x95	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	David Anthony Arnet	20-5x77	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Andrew Cooke	20-5x131	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Mathew Thomas Mawston	20-5x205	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Warren Harris	20-5x334	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Colin Hulse	20-5x609	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	D Wadham	20-5x122	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Rosemary Boshier	20-5x361	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Dr John R L Walker	20-5x645	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Heinrich Falkner	20-5x14	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Tony Terezow	20-5x306	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Ralph Frederick Boshier	20-5x352	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	John F G Bell	20-5x23	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Liana Goodall	20-5x140	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Peter Pohl	20-5x591	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Neil Walter Prebble	20-5x324	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Maurice Bowman	20-5x32	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Derek Stansfield	20-5x151	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Vern Morris	20-5x68	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Robert John Waters	20-5x315	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	John Stuart	20-5x343	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Harold A Boyd	20-5x397	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	J C Freeman	20-5x480	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	James Charles Pye	20-5x434	Support	Accept

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	R A Brown	20-5x507	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	K McVie	20-5x388	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Nigel Goldstone	20-5x546	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	David G King	20-5x537	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	P L Smith	20-5x555	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	James Percival Rowe	20-5x379	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Hugh Gordon Cooper	20-5x16	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Colin Stephens	20-5x424	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Brian Heywood	20-5x471	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	The NZ Association of Radio Transmitters	20-5x564	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Charles Malcolm George Moates	20-5x41	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	J M Seakins	20-5x498	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	JFC Johnson	20-5x213	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Cameron Neill Mumford	20-5x415	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	W O'Brien	20-5x222	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Leslie R Mellars	20-5x59	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	James Alexander Meachen	20-5x573	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Robert John deBurgh	20-5x654	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	John Andrews	20-5x618	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Christopher Billing	20-5x104	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Geoff and Bev Gillman	20-5x600	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Paul M Penberthy	20-5x231	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Roger Smith	20-5x113	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Peter John Moore	20-5x187	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Jeff King	20-5x50	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Roy Deans	20-5x169	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	I M Sexton	20-5x489	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Phillip King	20-5x406	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	Tony Case	20-5x160	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-5	Accept in part	J Sutton Burtenshaw	20-5x1150	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Robert John Waters	20-6x316	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	James Percival Rowe	20-6x380	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Rosemary Boshier	20-6x362	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Robert Stanley Cole	20-6x583	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Ralph Frederick Boshier	20-6x353	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	K McVie	20-6x389	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	James Alexander Meachen	20-6x574	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Warren Harris	20-6x335	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Neil Walter Prebble	20-6x325	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Cameron Neill Mumford	20-6x416	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Peter Pohl	20-6x592	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Roy Deans	20-6x170	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Tony Terezow	20-6x307	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Mathew Thomas Mawston	20-6x206	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	The NZ Association of Radio Transmitters	20-6x565	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Brian Heywood	20-6x472	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Andrew Cooke	20-6x132	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Liana Goodall	20-6x141	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	W O'Brien	20-6x223	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Derek Stansfield	20-6x152	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Graham Barton	20-6x371	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Peter John Moore	20-6x188	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	John Andrews	20-6x619	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	James Charles Pye	20-6x435	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Colin Stephens	20-6x425	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Jason Wallace	20-6x197	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Barry J Ward	20-6x179	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Colin Hulse	20-6x610	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Paul M Penberthy	20-6x232	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Tony Case	20-6x161	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Heinrich Falkner	20-6x15	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	A N Marsden	20-6x96	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Phillip King	20-6x407	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	J C Freeman	20-6x481	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Christopher Billing	20-6x105	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	I M Sexton	20-6x490	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Roger Smith	20-6x114	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	R A Brown	20-6x508	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	David G King	20-6x538	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	P L Smith	20-6x556	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Dr John R L Walker	20-6x646	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	John F G Bell	20-6x24	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Hugh Gordon Cooper	20-6x517	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Maurice Bowmah	20-6x33	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Leslie R Mellars	20-6x60	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	John Stuart	20-6x344	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	P W Dent	20-6x6	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Geoff and Bev Gillman	20-6x601	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Nigel Goldstone	20-6x547	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	JFC Johnson	20-6x214	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Stanley Barnes	20-6x628	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Harold A Boyd	20-6x398	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Charles Malcolm George Moates	20-6x42	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Alfred George Kennedy	20-6x87	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	David Anthony Arnet	20-6x78	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Vern Morris	20-6x69	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	J M Seakins	20-6x499	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	D Wadhams	20-6x123	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Robert John deBurgh	20-6x655	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Jeff King	20-6x51	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	Jasper Robert Sewell	20-6x637	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-6	Reject	J Sutton Burtenshaw	20-6x1151	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Jason Wallace	20-7x198	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	R A Brown	20-7x509	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Hugh Gordon Cooper	20-7x518	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	P W Dent	20-7x7	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	David G King	20-7x539	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Maurice Bowman	20-7x34	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Christopher Billing	20-7x106	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Rory Deans	20-7x171	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Barry J Ward	20-7x180	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Mathew Thomas Mawston	20-7x207	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Peter John Moore	20-7x189	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Heinrich Falkner	20-7x16	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Liana Goodall	20-7x142	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Derek Stansfield	20-7x153	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Leslie R Mellars	20-7x61	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	JFC Johnson	20-7x215	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	James Charles Pye	20-7x436	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Cameron Neill Mumford	20-7x417	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Geoff and Bev Gillman	20-7x602	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Jeff King	20-7x52	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Phillip King	20-7x408	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Colin Stephens	20-7x426	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	J M Seakins	20-7x500	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Charles Malcolm George Moates	20-7x43	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Brian Heywood	20-7x473	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	K McVie	20-7x390	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	J C Freeman	20-7x482	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	I M Sexton	20-7x491	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	John F G Bell	20-7x25	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Harold A Boyd	20-7x399	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	P L Smith	20-7x557	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Nigel Goldstone	20-7x548	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Andrew Cooke	20-7x133	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Robert John deBurgh	20-7x656	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	John Andrews	20-7x620	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Peter Pohl	20-7x593	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Jasper Robert Sewell	20-7x638	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Robert Stanley Cole	20-7x584	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	James Alexander Meachen	20-7x575	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Colin Hulise	20-7x611	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Stanley Barnes	20-7x629	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Dr John R L Walker	20-7x647	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Roger Smith	20-7x115	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	James Percival Rowe	20-7x381	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	David Anthony Arnet	20-7x79	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Tony Tereszow	20-7x308	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	D Wadham	20-7x124	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	The NZ Association of Radio Transmitters	20-7x566	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Paul M Penberthy	20-7x233	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	W O'Brien	20-7x224	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Graham Barton	20-7x372	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Robert John Waters	20-7x317	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Vern Morris	20-7x70	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Neil Walter Prebble	20-7x326	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Warren Harris	20-7x336	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	A N Marsden	20-7x97	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	John Stuart	20-7x345	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Ralph Frederick Boshier	20-7x354	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Alfred George Kennedy	20-7x88	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Tony Case	20-7x162	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	Rosemary Boshier	20-7x363	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-7	Reject	J Sutton Burtenshaw	20-7x1152	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	R A Brown	20-8x510	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Mathew Thomas Mawston	20-8x208	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Jason Wallace	20-8x199	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Peter John Moore	20-8x190	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Colin Hulise	20-8x612	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Barry J Ward	20-8x181	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Rory Deans	20-8x172	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	W O'Brien	20-8x225	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	J C Freeman	20-8x483	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Hugh Gordon Cooper	20-8x519	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	John Stuart	20-8x346	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	J M Seakins	20-8x501	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Colin Stephens	20-8x427	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Neil Walter Prebble	20-8x327	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	I M Sexton	20-8x492	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Dr John R L Walker	20-8x648	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Brian Heywood	20-8x474	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	JFC Johnson	20-8x216	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Tony Case	20-8x163	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Robert John deBurgh	20-8x657	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Warren Harris	20-8x337	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Graham Barton	20-8x373	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Robert John Waters	20-8x318	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Peter Pohl	20-8x594	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Tony Terezow	20-8x309	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Paul M Penberthy	20-8x234	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Rosemary Boshier	20-8x364	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	David G King	20-8x540	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Robert Stanley Cole	20-8x585	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Liana Goodall	20-8x143	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	David Anthony Arnet	20-8x80	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	John F G Bell	20-8x26	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Stanley Barnes	20-8x630	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	D Wadham	20-8x125	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Roger Smith	20-8x116	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Alfred George Kennedy	20-8x89	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Heinrich Falkner	20-8x17	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Jasper Robert Sewell	20-8x639	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Vern Morris	20-8x71	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	John Andrews	20-8x621	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Derek Stansfield	20-8x154	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Leslie R Mellars	20-8x62	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Ralph Frederick Boshier	20-8x355	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Nigel Goldstone	20-8x549	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Andrew Cooke	20-8x134	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Harold A Boyd	20-8x400	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	James Charles Pye	20-8x437	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	P W Dent	20-8x8	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Christopher Billing	20-8x107	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Cameron Neill Mumford	20-8x418	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Phillip King	20-8x409	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Geoff and Bev Gillman	20-8x603	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	K McVie	20-8x391	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	A N Marsden	20-8x98	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	James Percival Rowe	20-8x382	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	James Alexander Meachen	20-8x576	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	P L Smith	20-8x558	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Jeff King	20-8x53	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Maurice Bowman	20-8x35	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	The NZ Association of Radio Transmitters	20-8x567	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	Charles Malcolm George Moates	20-8x44	Support	Reject



Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-8	Reject	J Sutton Burtenshaw	20-8x1153	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Roy Deans	20-9x173	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Liana Goodall	20-9x144	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Roger Smith	20-9x117	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	John Stuart	20-9x347	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Derek Stansfield	20-9x155	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	I M Sexton	20-9x493	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	J C Freeman	20-9x484	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Barry J Ward	20-9x182	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	James Alexander Meachen	20-9x577	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Christopher Billing	20-9x108	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Cameron Neill Mumford	20-9x419	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	P L Smith	20-9x559	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Tony Case	20-9x164	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	James Percival Rowe	20-9x383	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Geoff and Bev Gillman	20-9x604	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Brian Heywood	20-9x475	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	A N Marsden	20-9x99	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Charles Malcolm George Moates	20-9x45	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	JFC Johnson	20-9x217	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	R A Brown	20-9x511	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	J M Seakins	20-9x502	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Ralph Frederick Boshier	20-9x356	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Peter John Moore	20-9x191	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Warren Harris	20-9x338	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Colin Stephens	20-9x428	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Peter Pohl	20-9x595	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Alfred George Kennedy	20-9x90	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	D Wadham	20-9x126	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	The NZ Association of Radio Transmitters	20-9x568	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Tony Terezow	20-9x310	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Colin Hulse	20-9x613	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	James Charles Pye	20-9x438	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Andrew Cooke	20-9x135	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Graham Barton	20-9x374	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Robert John Waters	20-9x319	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Robert Stanley Cole	20-9x586	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	K McVie	20-9x392	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Leslie R Mellars	20-9x63	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Rosemary Boshier	20-9x365	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Hugh Gordon Cooper	20-9x520	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	W Obrien	20-9x226	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Nigel Goldstone	20-9x550	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Vern Morris	20-9x72	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	John Andrews	20-9x622	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Paul M Penberthy	20-9x235	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Jason Wallace	20-9x200	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Harold A Boyd	20-9x401	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Stanley Barnes	20-9x631	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	David G King	20-9x541	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	David Anthony Arnet	20-9x81	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Mathew Thomas Mawston	20-9x329	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Dr John R L Walker	20-9x649	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Phillip King	20-9x410	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Jeff King	20-9x54	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Neil Walter Prebble	20-9x328	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	John F G Bell	20-9x27	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Heinrich Falkner	20-9x18	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	P W Dent	20-9x9	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Robert John deBurgh	20-9x658	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Jasper Robert Sewell	20-9x640	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	Maurice Bowman	20-9x36	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-9	Reject	J Sutton Burtenshaw	20-9x1154	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	P W Dent	20-10x919	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Stanley Barnes	20-10x739	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	K McVie	20-10x1039	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Derek Stansfield	20-10x901	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	John F G Bell	20-10x925	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	David G King	20-10x1063	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Robert John Waters	20-10x913	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Phillip King	20-10x829	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Vern Morris	20-10x949	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Nigel Goldstone	20-10x805	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Liana Goodall	20-10x991	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Rosemary Boshier	20-10x751	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	David Anthony Arnet	20-10x733	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Jason Wallace	20-10x1003	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Geoff and Bev Gillman	20-10x1087	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Harold A Boyd	20-10x1045	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Jeff King	20-10x937	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Charles Malcolm George Moates	20-10x931	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Graham Barton	20-10x1033	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Dr John R L Walker	20-10x1081	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Hugh Gordon Cooper	20-10x1057	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	John Stuart	20-10x1027	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Ralph Frederick Boshier	20-10x745	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Cameron Neill Mumford	20-10x1051	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	John Andrews	20-10x727	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Andrew Cooke	20-10x985	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	P L Smith	20-10x1069	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Jasper Robert Sewell	20-10x889	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Colin Hulise	20-10x1075	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Mathew Thomas Mawston	20-10x1009	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Alfred George Kennedy	20-10x955	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Neil Walter Prebble	20-10x865	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Roger Smith	20-10x973	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Tony Case	20-10x769	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Maurice Bowman	20-10x757	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Tony Terezow	20-10x1021	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	James Charles Pye	20-10x871	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	W O'Brien	20-10x1015	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Heinrich Falkner	20-10x793	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Robert Stanley Cole	20-10x775	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Robert John deBurgh	20-10x787	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Rory Deans	20-10x781	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Colin Stephens	20-10x907	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	I M Sexton	20-10x895	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Barry J Ward	20-10x997	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Leslie R Mellars	20-10x943	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Brian Heywood	20-10x817	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	R A Brown	20-10x763	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Peter Pohl	20-10x859	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Warren Harris	20-10x811	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	J M Seakins	20-10x883	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	J C Freeman	20-10x799	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	JFC Johnson	20-10x823	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	D Wadham	20-10x979	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Christopher Billing	20-10x967	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Peter John Moore	20-10x841	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	James Percival Rowe	20-10x877	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	The NZ Association of Radio Transmitters	20-10x847	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	James Alexander Meachen	20-10x835	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	A N Marsden	20-10x961	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	Paul M Penberthy	20-10x853	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-10	Reject	J Sutton Burtenshaw	20-10x1155	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Stanley Barnes	20-11x740	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Maurice Bowman	20-11x758	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Tony Terezow	20-11x1022	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Ralph Frederick Boshier	20-11x746	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	John Stuart	20-11x1028	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Nigel Goldstone	20-11x806	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	R A Brown	20-11x764	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Tony Case	20-11x770	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Peter Pohl	20-11x860	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	W O'Brien	20-11x1016	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Neil Walter Prebble	20-11x866	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Rory Deans	20-11x782	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	James Charles Pye	20-11x872	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Derek Stansfield	20-11x902	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Robert Stanley Cole	20-11x776	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Colin Stephens	20-11x908	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Alfred George Kennedy	20-11x956	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Geoff and Bev Gillman	20-11x1088	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Leslie R Mellars	20-11x944	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Mathew Thomas Mawston	20-11x1010	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Robert John deBurgh	20-11x788	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	A N Marsden	20-11x962	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	David Anthony Arnet	20-11x734	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Dr John R L Walker	20-11x1082	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	The NZ Association of Radio Transmitters	20-11x848	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Robert John Waters	20-11x914	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	John Andrews	20-11x728	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	K McVie	20-11x1040	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	I M Sexton	20-11x896	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Paul M Penberthy	20-11x854	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Jason Wallace	20-11x1004	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	David G King	20-11x1064	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Brian Heywood	20-11x818	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Roger Smith	20-11x974	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Jeff King	20-11x938	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Vern Morris	20-11x950	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	J M Seakins	20-11x884	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Colin Hulse	20-11x1076	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	James Alexander Meachen	20-11x836	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	John F G Bell	20-11x926	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	James Percival Rowe	20-11x878	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Graham Barton	20-11x1034	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Charles Malcolm George Moates	20-11x932	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Christopher Billing	20-11x968	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	J C Freeman	20-11x800	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Peter John Moore	20-11x842	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Jasper Robert Sewell	20-11x890	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Hugh Gordon Cooper	20-11x1058	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	P W Dent	20-11x920	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Liana Goodall	20-11x992	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Rosemary Boshier	20-11x752	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Heinrich Falkner	20-11x794	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Phillip King	20-11x830	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Andrew Cooke	20-11x986	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	P L Smith	20-11x1070	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Barry J Ward	20-11x998	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	D Wadham	20-11x980	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Harold A Boyd	20-11x1046	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Warren Harris	20-11x812	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	Cameron Neill Mumford	20-11x1052	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	JFC Johnson	20-11x824	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-11	Reject	J Sutton Burtenshaw	20-11x1156	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	R A Brown	20-12x765	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Cameron Neill Mumford	20-12x1053	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Warren Harris	20-12x813	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	David Anthony Arnet	20-12x735	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Rosemary Boshier	20-12x753	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Tony Terezow	20-12x1023	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Ralph Frederick Boshier	20-12x747	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Maurice Bowmah	20-12x759	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	W O'Brien	20-12x1017	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Stanley Barnes	20-12x741	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Derek Stansfield	20-12x903	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Andrew Cooke	20-12x987	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	K McVie	20-12x1041	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Tony Case	20-12x771	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Colin Stephens	20-12x909	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	P W Dent	20-12x921	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	J M Seakins	20-12x885	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	J C Freeman	20-12x801	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Liana Goodall	20-12x993	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Jasper Robert Sewell	20-12x891	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	D Wadham	20-12x981	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	David G King	20-12x1065	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Harold A Boyd	20-12x1047	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Nigel Goldstone	20-12x807	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Hugh Gordon Cooper	20-12x1059	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Charles Malcolm George Moates	20-12x933	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Robert John Waters	20-12x915	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Brian Heywood	20-12x819	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Heinrich Falkner	20-12x795	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Barry J Ward	20-12x999	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Peter Pohl	20-12x861	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Robert Stanley Cole	20-12x777	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Neil Walter Prebble	20-12x867	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	John F G Bell	20-12x927	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	A N Marsden	20-12x963	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Alfred George Kennedy	20-12x957	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Peter John Moore	20-12x843	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	The NZ Association of Radio Transmitters	20-12x849	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Phillip King	20-12x831	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	JFC Johnson	20-12x825	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	James Alexander Meachen	20-12x837	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Colin Hulse	20-12x1077	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	P L Smith	20-12x1071	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Dr John R L Walker	20-12x1083	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	James Charles Pye	20-12x873	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Mathew Thomas Mawston	20-12x1011	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Vern Morris	20-12x951	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Graham Barton	20-12x1035	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	James Percival Rowe	20-12x879	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Rory Deans	20-12x783	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Leslie R Mellars	20-12x945	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Robert John deBurgh	20-12x789	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	John Andrews	20-12x729	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Jeff King	20-12x939	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	I M Sexton	20-12x897	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Roger Smith	20-12x975	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Jason Wallace	20-12x1005	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	John Stuart	20-12x1029	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Geoff and Bev Gillman	20-12x1089	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Christopher Billing	20-12x969	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	Paul M Penberthy	20-12x855	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-12	Reject	J Sutton Burtenshaw	20-12x1157	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Cameron Neill Mumford	20-13x1054	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Peter Pohl	20-13x862	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Alfred George Kennedy	20-13x958	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Phillip King	20-13x832	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Ralph Frederick Boshier	20-13x748	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Geoff and Bev Gillman	20-13x1090	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Dr John R L Walker	20-13x1084	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Colin Hulse	20-13x1078	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	P L Smith	20-13x1072	Support	Accept

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Graham Barton	20-13x1036	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Hugh Gordon Cooper	20-13x1060	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Paul M Penberthy	20-13x856	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Harold A Boyd	20-13x1048	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	David G King	20-13x1066	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Brian Heywood	20-13x820	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	John Andrews	20-13x730	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Barry J Ward	20-13x1000	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	D Wadhvani	20-13x982	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Nigel Goldstone	20-13x808	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Andrew Cooke	20-13x988	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Liana Goodall	20-13x994	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Roger Smith	20-13x976	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	The NZ Association of Radio Transmitters	20-13x850	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	JFC Johnson	20-13x826	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Christopher Billing	20-13x970	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	J C Freeman	20-13x802	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	James Alexander Meachen	20-13x838	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Peter John Moore	20-13x844	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	A N Marsden	20-13x964	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Warren Harris	20-13x814	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	James Charles Pye	20-13x874	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	K McVie	20-13x1042	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	David Anthony Arnet	20-13x736	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	P W Dent	20-13x922	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Derek Stansfield	20-13x904	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	James Percival Rowe	20-13x880	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	J M Seakins	20-13x886	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	John F G Bell	20-13x928	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Jasper Robert Sewell	20-13x892	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Charles Malcolm George Moates	20-13x934	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	I M Sexton	20-13x898	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Vern Morris	20-13x952	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Robert John Waters	20-13x916	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Leslie R Mellars	20-13x946	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Colin Stephens	20-13x910	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Stanley Barnes	20-13x742	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Jeff King	20-13x940	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Tony Case	20-13x772	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	John Stuart	20-13x1030	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Jason Wallace	20-13x1006	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Rosemary Boshier	20-13x754	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Tony Terezow	20-13x1024	Support	Accept

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Maurice Bowman	20-13x760	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	W O'Brien	20-13x1018	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	R A Brown	20-13x766	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Neil Walter Prebble	20-13x868	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Robert Stanley Cole	20-13x778	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Mathew Thomas Mawston	20-13x1012	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Rory Deans	20-13x784	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Robert John deBurgh	20-13x790	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	Heinrich Falkner	20-13x796	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-13	Accept	J Sutton Burtenshaw	20-13x1158	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Rosemary Boshier	20-14x755	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	JFC Johnson	20-14x827	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Mathew Thomas Mawston	20-14x1013	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	James Percival Rowe	20-14x881	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	The NZ Association of Radio Transmitters	20-14x851	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Robert Stanley Cole	20-14x779	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	J C Freeman	20-14x803	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Phillip King	20-14x833	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Heinrich Falkner	20-14x797	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Tony Case	20-14x773	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	James Alexander Meachen	20-14x839	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Nigel Goldstone	20-14x809	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Peter John Moore	20-14x845	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	John F G Bell	20-14x929	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	I M Sexton	20-14x899	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Peter Pohl	20-14x863	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	P W Dent	20-14x923	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Robert John Waters	20-14x917	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Stanley Bames	20-14x743	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	David Anthony Arnet	20-14x737	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Ralph Frederick Boshier	20-14x749	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	J M Seakins	20-14x887	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Brian Heywood	20-14x821	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	John Andrews	20-14x731	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	James Charles Pye	20-14x875	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Jasper Robert Sewell	20-14x893	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Neil Walter Prebble	20-14x869	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Colin Stephens	20-14x911	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Rory Deans	20-14x785	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Derek Stansfield	20-14x905	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Colin Hulse	20-14x1079	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	John Stuart	20-14x1031	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Alfred George Kennedy	20-14x959	Support	Reject



Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Geoff and Bev Gillman	20-14x1091	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Leslie R Mellars	20-14x947	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Dr John R L Walker	20-14x1085	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Liana Goodall	20-14x995	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Harold A Boyd	20-14x1049	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Hugh Gordon Cooper	20-14x1061	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Vern Morris	20-14x953	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	P L Smith	20-14x1073	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Jason Wallace	20-14x1007	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	David G King	20-14x1067	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	R A Brown	20-14x767	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	D Wadham	20-14x983	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Charles Malcolm George Moates	20-14x935	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Roger Smith	20-14x977	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Warren Harris	20-14x815	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Paul M Penberthy	20-14x857	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	W O'Brien	20-14x1019	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Cameron Neill Mumford	20-14x1055	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Maurice Bowman	20-14x761	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Tony Terezow	20-14x1025	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Barry J Ward	20-14x1001	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Christopher Billing	20-14x971	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Jeff King	20-14x941	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Andrew Cooke	20-14x989	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Graham Barton	20-14x1037	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	K McVie	20-14x1043	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	A N Marsden	20-14x965	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	Robert John deBurgh	20-14x791	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-14	Reject	J Sutton Burtenshaw	20-14x1159	Support	Reject
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	R A Brown	20-15x768	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Mathew Thomas Mawston	20-15x1014	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Robert John Waters	20-15x918	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Robert Stanley Cole	20-15x780	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Jason Wallace	20-15x1008	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Heinrich Falkner	20-15x798	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Barry J Ward	20-15x1002	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Andrew Cooke	20-15x990	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	D Wadham	20-15x984	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Nigel Goldstone	20-15x810	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Maurice Bowman	20-15x762	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Rory Deans	20-15x786	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Colin Stephens	20-15x912	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Roger Smith	20-15x978	Support	Accept

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	W O'Brien	20-15x1020	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Robert John deBurgh	20-15x792	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Charles Malcolm George Moates	20-15x936	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Tony Case	20-15x774	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	James Percival Rowe	20-15x882	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	J M Seakins	20-15x888	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	P W Dent	20-15x924	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Jeff King	20-15x942	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Derek Stansfield	20-15x906	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	I M Sexton	20-15x900	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Jasper Robert Sewell	20-15x894	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Leslie R Mellars	20-15x948	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	K McVie	20-15x1044	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Tony Tereзов	20-15x1026	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	John F G Bell	20-15x930	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Neil Walter Prebble	20-15x870	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	J C Freeman	20-15x804	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Paul M Penberthy	20-15x858	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	A N Marsden	20-15x966	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Warren Harris	20-15x816	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	James Alexander Meachen	20-15x840	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Peter Pohl	20-15x864	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Phillip King	20-15x834	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Peter John Moore	20-15x846	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	JFC Johnson	20-15x828	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Vern Morris	20-15x954	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	James Charles Pye	20-15x876	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Christopher Billing	20-15x972	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Geoff and Bev Gillman	20-15x1092	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Brian Heywood	20-15x822	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	The NZ Association of Radio Transmitters	20-15x852	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Hugh Gordon Cooper	20-15x1062	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Dr John R L Walker	20-15x1086	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Colin Hulse	20-15x1080	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Alfred George Kennedy	20-15x960	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	David G King	20-15x1068	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Cameron Neill Mumford	20-15x1056	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Rosemary Boshier	20-15x756	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Harold A Boyd	20-15x1050	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Ralph Frederick Boshier	20-15x750	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Graham Barton	20-15x1038	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	John Stuart	20-15x1032	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	John Andrews	20-15x732	Support	Accept

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Liana Goodall	20-15x996	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	David Anthony Arnet	20-15x738	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	Stanley Barnes	20-15x744	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	P L Smith	20-15x1074	Support	Accept
New Zealand Association of Radio Transmitters (Inc)	20-15	Accept in part	J Sutton Burtenshaw	20-15x1160	Support	Accept
M D Newman	172-1 to 53	See 69-1 to 53				
North Shore Amateur Radio Club Inc	229-1	Accept				
North Shore Amateur Radio Club Inc	229-2	Accept				
North Shore Amateur Radio Club Inc	229-3	Reject				
North Shore Amateur Radio Club Inc	229-4	Reject				
North Shore Amateur Radio Club Inc	229-5	Accept				
North Shore Amateur Radio Club Inc	229-6	Reject				
Water Services, NSCC	21-1	Accept	Vector Ltd	21-1x239	Support	Accept
North Shore Civil Defence Emergency Management	22-1	Accept in part				
North Shore Civil Defence Emergency Management	22-2	Reject				
North Shore Civil Defence Emergency Management	22-3	Reject				
North Shore Civil Defence Emergency Management	22-4	Reject				
North Shore Civil Defence Emergency Management	22-5	Accept in part				
North Shore Civil Defence Emergency Management	22-6	Reject				
North Shore Civil Defence Emergency Management	22-7	Accept in part				
North Shore Civil Defence Emergency Management	22-8	Accept in part				
North Shore Civil Defence Emergency Management	22-9	Reject				
North Shore Civil Defence Emergency Management	22-10	Accept				
North Shore Civil Defence Emergency Management	22-11	Accept in part				
North Shore Civil Defence Emergency Management	22-12	Accept				
North Shore Civil Defence Emergency Management	22-13	Accept				
North Shore Civil Defence Emergency Management	22-14	Accept				
North Shore Civil Defence Emergency Management	22-15	Reject				
North Shore Civil Defence Emergency Management	22-16	Accept in part				
North Shore Civil Defence Emergency Management	22-17	Reject				
North Shore Civil Defence Emergency Management	22-18	Accept in part				
North Shore Civil Defence Emergency Management	22-19	Accept in part				
North Shore Civil Defence Emergency Management	22-20	Accept in part				
North Shore Civil Defence Emergency Management	22-21	Accept in part				
North Shore Civil Defence Emergency Management	22-22	Accept in part				
North Shore Civil Defence Emergency Management	22-23	Reject				
North Shore Civil Defence Emergency Management	22-24	Reject				
North Shore Civil Defence Emergency Management	22-25	Reject				
North Shore Civil Defence Emergency Management	22-26	Accept				
North Shore Civil Defence Emergency Management	22-27	Accept				
North Shore Civil Defence Emergency Management	22-28	Accept				
North Shore Civil Defence Emergency Management	22-29	Reject				
North Shore Civil Defence Emergency Management	22-30	Reject				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
North Shore Civil Defence Emergency Management	22-31	Accept in part				
North Shore Civil Defence Emergency Management	22-32	Accept in part				
North Shore Civil Defence Emergency Management	22-33	Reject				
North Shore Civil Defence Emergency Management	22-34	Reject				
North Shore Civil Defence Emergency Management	22-35	Reject				
North Shore Civil Defence Emergency Management	22-36	Accept				
North Shore Civil Defence Emergency Management	22-37	Reject				
North Shore Civil Defence Emergency Management	22-38	Reject				
North Shore Civil Defence Emergency Management	22-39	Reject				
North Shore Civil Defence Emergency Management	22-40	Accept in part				
North Shore Civil Defence Emergency Management	22-41	Reject				
North Shore Civil Defence Emergency Management	22-42	Reject				
Andrew Nyhoff	23-1	Accept in part	Vector Ltd	23-1x240	Oppose	Accept in part
Andrew Nyhoff	23-2	Accept in part				
The NZ Association of Radio Transmitters	173-1 to 53	See 69-1 to 53				
David O'Brien	174-1 to 53	See 69-1 to 53				
Eric William Ockleston	175-1 to 53	See 69-1 to 53				
I W Ogier	176-1 to 53	See 69-1 to 53				
William John Olsen	177-1 to 53	See 69-1 to 53				
Edward Olson	24-1	Accept in part				
Edward Olson	24-2	Accept				
Noel Orr	56-1	Accept in part				
Noel Orr	56-2	Accept				
Noel Orr	56-3	Accept				
G D Owst	25-1	Accept				
James Paltridge	178-1 to 53	See 69-1 to 53				
R J Parkinson	179-1 to 53	See 69-1 to 53				
Paul M Penberthy	180-1 to 53	See 69-1 to 53				
Gavin Petrie	181-1 to 53	See 69-1 to 53				
Peter Pohl	182-1 to 53	See 69-1 to 53				
John Frederick Powell	183-1 to 53	See 69-1 to 53				
James Charles Pye	184-1 to 53	See 69-1 to 53				
James Thorpe Pye	185-1 to 53	See 69-1 to 53				
Nawzad Raghieb	186-1 to 53	See 69-1 to 53				
Lee Rapson	187-1 to 53	See 69-1 to 53				
Geoffrey Reed	58-1	Accept in part				
Geoffrey Reed	58-2	Accept				
Geoffrey Reed	58-3	Accept				
John M Reinke	188-1 to 53	See 69-1 to 53				
Bill Richardson	189-1 to 53	See 69-1 to 53				
D A R Rosan	190-1 to 53	See 69-1 to 53				
BW Rous	191-1 to 53	See 69-1 to 53				
S J Rowe	59-1	Accept in part				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
S J Rowe	59-2	Accept				
S J Rowe	59-3	Accept				
James Percival Rowe	192-1 to 53	See 69-1 to 53				
Peter Sandlant	193-1 to 53	See 69-1 to 53				
Bryan C Sando	194-1 to 53	See 69-1 to 53				
Clyde Hugh Scott	60-1	Accept	Vector Ltd	60-1x298	Oppose	Reject
J M Seakins	195-1 to 53	See 69-1 to 53				
Vernon C A Sears	196-1 to 53	See 69-1 to 53				
Jasper Robert Sewell	197-1 to 53	See 69-1 to 53				
I M Sexton	198-1 to 53	See 69-1 to 53				
John Shaw	61-1	Accept in part				
John Shaw	61-2	Accept				
John Shaw	61-3	Accept				
Michael John Sheffield	199-1 to 53	See 69-1 to 53				
E R Shepherd	200-1 to 53	See 69-1 to 53				
Peter Smith	26-1	Accept in part	M D Newnan	26-1x666	Support	Accept in part
Peter Smith	26-2	Accept	M D Newnan	26-2x667	Support	Accept
Peter Smith	26-3	Accept in part	M D Newnan	26-3x668	Support	Accept in part
Peter Smith	26-4	Accept in part	M D Newnan	26-4x669	Support	Accept in part
Peter Smith	26-5	Reject	M D Newnan	26-5x670	Support	Reject
Peter Smith	26-6	Accept in part	M D Newnan	26-6x671	Support	Accept in part
Peter Smith	26-7	Reject	M D Newnan	26-7x672	Support	Reject
Peter Smith	26-8	Accept in part	M D Newnan	26-8x673	Support	Accept
Peter Smith	26-9	Accept in part	M D Newnan	26-9x674	Support	Accept
Peter Smith	26-10	Accept in part	M D Newnan	26-10x675	Support	Accept in part
Peter Smith	26-11	Accept in part	M D Newnan	26-11x676	Support	Accept in part
Peter Smith	26-12	Accept	M D Newnan	26-12x677	Support	Accept
Peter Smith	26-13	Accept	M D Newnan	26-13x678	Support	Accept
Peter Smith	26-14	Reject	M D Newnan	26-14x679	Support	Reject
Peter Smith	26-15	Reject	M D Newnan	26-15x680	Support	Reject
Peter Smith	26-16	Reject	M D Newnan	26-16x681	Support	Reject
Peter Smith	26-17	Reject	M D Newnan	26-17x682	Support	Reject
Peter Smith	26-18	Reject	M D Newnan	26-18x683	Support	Reject
Peter Smith	26-19	Reject	M D Newnan	26-19x684	Support	Reject
Peter Smith	26-20	Accept	M D Newnan	26-20x685	Support	Accept
Peter Smith	26-21	Reject	M D Newnan	26-21x686	Support	Reject
Peter Smith	26-22	Reject	M D Newnan	26-22x687	Support	Reject
Peter Smith	26-23	Reject	M D Newnan	26-23x688	Support	Reject
Peter Smith	26-24	Accept in part	M D Newnan	26-24x689	Support	Accept in part
Peter Smith	26-25	Reject	M D Newnan	26-25x690	Support	Reject
Peter Smith	26-26	Accept in part	M D Newnan	26-26x691	Support	Accept in part
Peter Smith	26-27	Accept in part	M D Newnan	26-27x692	Support	Accept in part
Peter Smith	26-28	Reject	M D Newnan	26-28x693	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
Peter Smith	26-29	Accept	M D Newnan	26-29x694	Support	Accept
Peter Smith	26-30	Accept in part	M D Newnan	26-30x695	Support	Accept in part
Peter Smith	26-31	Accept	M D Newnan	26-31x696	Support	Accept
Peter Smith	26-32	Accept	M D Newnan	26-32x697	Support	Accept
Peter Smith	26-33	Accept	M D Newnan	26-33x698	Support	Accept
Peter Smith	26-34	Reject	M D Newnan	26-34x699	Support	Reject
Peter Smith	26-35	Accept in part	M D Newnan	26-35x700	Support	Accept in part
Peter Smith	26-36	Reject	M D Newnan	26-36x701	Support	Reject
Peter Smith	26-37	Accept in part	M D Newnan	26-37x702	Support	Accept in part
Peter Smith	26-38	Accept in part	M D Newnan	26-38x703	Support	Accept in part
Peter Smith	26-39	Accept in part	M D Newnan	26-39x704	Support	Accept in part
Peter Smith	26-40	Accept in part	M D Newnan	26-40x705	Support	Accept in part
Peter Smith	26-41	Accept in part	M D Newnan	26-41x706	Support	Accept in part
Peter Smith	26-42	Reject	M D Newnan	26-42x707	Support	Reject
Peter Smith	26-43	Reject	M D Newnan	26-43x708	Support	Reject
Peter Smith	26-44	Reject	M D Newnan	26-44x709	Support	Reject
Peter Smith	26-45	Accept	M D Newnan	26-45x710	Support	Accept
Peter Smith	26-46	Accept	M D Newnan	26-46x711	Support	Accept
Peter Smith	26-47	Accept	M D Newnan	26-47x712	Support	Accept
Peter Smith	26-48	Reject	M D Newnan	26-48x713	Support	Reject
Peter Smith	26-49	Reject	M D Newnan	26-49x714	Support	Reject
Peter Smith	26-50	Accept in part	M D Newnan	26-50x715	Support	Accept in part
Peter Smith	26-51	Accept in part	M D Newnan	26-51x716	Support	Accept in part
Peter Smith	26-52	Reject	M D Newnan	26-52x717	Support	Reject
Peter Smith	26-53	Reject	M D Newnan	26-53x718	Support	Reject
Peter Smith	26-54	Reject	M D Newnan	26-54x719	Support	Reject
Peter Smith	26-55	Accept	M D Newnan	26-55x720	Support	Accept
Peter Smith	26-56	Reject	M D Newnan	26-56x721	Support	Reject
Peter Smith	26-57	Reject	M D Newnan	26-57x722	Support	Reject
Peter Smith	26-58	Reject	M D Newnan	26-58x723	Support	Reject
Peter Smith	26-59	Accept in part	M D Newnan	26-59x724	Support	Accept in part
Peter Smith	26-60	Reject	M D Newnan	26-60x725	Support	Reject
Peter Smith	26-61	Reject	M D Newnan	26-61x726	Support	Reject
Shelley Smithson	201-1 to 53	See 69-1 to 53				
Donald Gordon Spackman	202-1 to 53	See 69-1 to 53				
Sue Spindler	27-1	Reject				
Sue Spindler	27-2	Reject				
Robyn and John Spooner	234-1	Accept	M D Newnan	234-1x463	Oppose	Reject
Robyn and John Spooner	234-1	Accept	Vector Ltd	234-1x299	Oppose	Reject
Shirley Squire	28-1	Reject	Vector Ltd	28-1x241	Oppose	Accept
Shirley Squire	28-2	Accept	Vector Ltd	28-2x242	Oppose	Reject
Shirley Squire	28-3	Accept				
Derek Stansfield	203- to 53	See 69-1 to 53				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
Bruce Steel	201-1 to 53	See 69-1 to 53				
Colin Stephens	205-1 to 53	See 69-1 to 53				
Warren Stirling	62-1	Accept in part				
Warren Stirling	62-2	Accept				
Warren Stirling	62-3	Accept				
Graham Street	63-1	Accept in part				
Graham Street	63-2	Accept				
Graham Street	63-3	Accept				
Neil Bradman Sturmev	206-1 to 53	See 69-1 to 53				
Petr Sykora	207-1 to 53	See 69-1 to 53				
R L Sylvester	208-1 to 53	See 69-1 to 53				
Leo I Taillie	209-1 to 53	See 69-1 to 53				
Takapuna Community Board	29-1	Accept	Vector Ltd	29-1x243	Oppose	Reject
Takapuna Community Board	29-2	Reject	Vector Ltd	29-2x244	Oppose	Accept
Takapuna Community Board	29-2	Reject	Transpower New Zealand Ltd	29-2x522	Oppose	Accept
Telecom NZ	31-1	Reject				
Telecom NZ	31-2	Accept	Broadcast Communications Ltd	31-2x444	Support	Accept
Telecom NZ	31-2	Accept	TelstraClear Ltd	31-2x1195	Support	Accept
Telecom NZ	31-2	Accept	Vodafone NZ Ltd	31-2x1182	Support	Accept
Telecom NZ	31-3	Reject				
Telecom NZ	31-4	Reject	Broadcast Communications Ltd	31-4x448	Support	Reject
Telecom NZ	31-4	Reject	TelstraClear Ltd	31-4x1196	Support	Reject
Telecom NZ	31-4	Reject	Vodafone NZ Ltd	31-4x1183	Support	Reject
Telecom NZ	31-5	Reject	Broadcast Communications Ltd	31-5x445	Support	Reject
Telecom NZ	31-6	Accept	Vodafone NZ Ltd	31-6x1184	Support	Accept
Telecom NZ	31-6	Accept	TelstraClear Ltd	31-6x1197	Support	Accept
Telecom NZ	31-7	Accept in part	Broadcast Communications Ltd	31-7x446	Support	Accept
Telecom NZ	31-8	Reject				
Telecom NZ	31-9	Reject				
Telecom NZ	31-10	Accept	Broadcast Communications Ltd	31-10x447	Support	Accept
Telecom NZ	31-10	Accept	TelstraClear Ltd	31-10x1198	Support	Accept
Telecom NZ	31-10	Accept	Vodafone NZ Ltd	31-10x1185	Support	Accept
Telecom NZ	31-11	Accept in part	Broadcast Communications Ltd	31-11x449	Support	Accept
Telecom NZ	31-11	Accept in part	TelstraClear Ltd	31-11x1199	Support	Accept
Telecom NZ	31-11	Accept in part	Vodafone NZ Ltd	31-11x1186	Support	Accept
Telecom NZ	31-12	Accept	TelstraClear Ltd	31-12x1200	Support	Accept
Telecom NZ	31-12	Accept	Vodafone NZ Ltd	31-12x1187	Support	Accept
Telecom NZ	31-13	Reject	Vector Ltd	31-13x245	Support	Reject
Telecom NZ	31-13	Reject	TelstraClear Ltd	31-13x1201	Support	Reject
Telecom NZ	31-13	Reject	Vodafone NZ Ltd	31-13x1188	Support	Reject
Telecom NZ	31-14	Reject				
TelstraClear Ltd	32-1	Reject	Broadcast Communications Ltd	32-1x450	Support	Reject
TelstraClear Ltd	32-1	Reject	Vector Ltd	32-1x246	Support	Reject
TelstraClear Ltd	32-1	Reject	Telecom NZ	32-1x1163	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
TelstraClear Ltd	32-2	Reject	Vector Ltd	32-2x247	Support	Reject
TelstraClear Ltd	32-3	Reject	Vector Ltd	32-3x248	Support	Reject
TelstraClear Ltd	32-4	Accept in part	Vector Ltd	32-4x249	Support	Accept
TelstraClear Ltd	32-5	Accept	Broadcast Communications Ltd	32-5x451	Support	Accept
TelstraClear Ltd	32-5	Accept	Vector Ltd	32-5x250	Support	Accept
TelstraClear Ltd	32-6	Reject	Vector Ltd	32-6x251	Support	Reject
TelstraClear Ltd	32-7	Accept in part	Broadcast Communications Ltd	32-7x452	Support	Accept
TelstraClear Ltd	32-8	Reject	Broadcast Communications Ltd	32-8x453	Support	Reject
TelstraClear Ltd	32-8	Reject	Telecom NZ	32-8x1164	Support in Part	Reject
TelstraClear Ltd	32-9	Accept in part				
TelstraClear Ltd	32-10	Accept	Broadcast Communications Ltd	32-10x454	Support	Accept
TelstraClear Ltd	32-11	Accept in part				
TelstraClear Ltd	32-12	Accept	Vector Ltd	32-12x252	Support	Accept
TelstraClear Ltd	32-12	Accept	Telecom NZ	32-12x1165	Support	Accept
TelstraClear Ltd	32-13	Accept in part	Broadcast Communications Ltd	32-13x455	Support	Accept
TelstraClear Ltd	32-13	Accept in part	Telecom NZ	32-13x1166	Support in Part	Accept in part
TelstraClear Ltd	32-14	Reject	Telecom NZ	32-14x1167	Support	Reject
TelstraClear Ltd	32-15	Reject	Telecom NZ	32-15x1168	Support	Reject
TelstraClear Ltd	32-16	Reject	Vector Ltd	32-16x253	Support	Reject
TelstraClear Ltd	32-17	Reject	Vector Ltd	32-17x254	Support	Reject
TelstraClear Ltd	32-18	Reject	Vector Ltd	32-18x255	Support	Reject
Robert Thompson	210-1 to 53	See 69-1 to 53				
Dennis Thornton	64-1	Accept	M D Newman	64-1x1093	Support	Accept
Dennis Thornton	64-2	Accept in part	M D Newman	64-2x1094	Support	Accept in part
Dennis Thornton	64-3	Accept in part	M D Newman	64-3x1095	Support	Accept in part
Dennis Thornton	64-4	Accept	M D Newman	64-4x1096	Support	Accept
Dennis Thornton	64-5	Accept	M D Newman	64-5x1097	Support	Accept
Dennis Thornton	64-6	Reject	M D Newman	64-6x1098	Support	Reject
Dennis Thornton	64-7	Reject	M D Newman	64-7x1099	Support	Reject
Dennis Thornton	64-8	Reject	M D Newman	64-8x1100	Support	Reject
Dennis Thornton	64-9	Reject	M D Newman	64-9x1101	Support	Reject
Dennis Thornton	64-10	Reject	M D Newman	64-10x1102	Support	Reject
Dennis Thornton	64-11	Reject	M D Newman	64-11x1103	Support	Reject
Dennis Thornton	64-12	Accept	M D Newman	64-12x1104	Support	Accept
Dennis Thornton	64-13	Reject	M D Newman	64-13x1105	Support	Reject
Dennis Thornton	64-14	Reject	M D Newman	64-14x1106	Support	Reject
Dennis Thornton	64-15	Reject	M D Newman	64-15x1107	Support	Reject
Dennis Thornton	64-16	Accept in part	M D Newman	64-16x1108	Support	Accept in part
Dennis Thornton	64-17	Reject	M D Newman	64-17x1109	Support	Reject
Dennis Thornton	64-18	Accept in part	M D Newman	64-18x1110	Support	Accept in part
Dennis Thornton	64-19	Accept in part	M D Newman	64-19x1111	Support	Accept in part
Dennis Thornton	64-20	Reject	M D Newman	64-20x1112	Support	Reject
Dennis Thornton	64-21	Accept	M D Newman	64-21x1113	Support	Accept



Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
Dennis Thornton	64-22	Accept in part	M D Newman	64-22x1114	Support	Accept in part
Dennis Thornton	64-23	Accept	M D Newman	64-23x1115	Support	Accept
Dennis Thornton	64-24	Accept	M D Newman	64-24x1116	Support	Accept
Dennis Thornton	64-25	Accept	M D Newman	64-25x1117	Support	Accept
Dennis Thornton	64-26	Reject	M D Newman	64-26x1118	Support	Reject
Dennis Thornton	64-27	Accept in part	M D Newman	64-27x1119	Support	Accept in part
Dennis Thornton	64-28	Reject	M D Newman	64-28x1120	Support	Reject
Dennis Thornton	64-29	Accept in part	M D Newman	64-29x1121	Support	Accept in part
Dennis Thornton	64-30	Accept in part	M D Newman	64-30x1122	Support	Accept in part
Dennis Thornton	64-31	Accept in part	M D Newman	64-31x1123	Support	Accept in part
Dennis Thornton	64-32	Accept in part	M D Newman	64-32x1124	Support	Accept in part
Dennis Thornton	64-33	Accept in part	M D Newman	64-33x1125	Support	Accept in part
Dennis Thornton	64-34	Reject	M D Newman	64-34x1126	Support	Reject
Dennis Thornton	64-35	Reject	M D Newman	64-35x1127	Support	Reject
Dennis Thornton	64-36	Reject	M D Newman	64-36x1128	Support	Reject
Dennis Thornton	64-37	Accept	M D Newman	64-37x1129	Support	Accept
Dennis Thornton	64-38	Accept	M D Newman	64-38x1130	Support	Accept
Dennis Thornton	64-39	Reject	M D Newman	64-39x1131	Support	Reject
Dennis Thornton	64-40	Reject	M D Newman	64-40x1132	Support	Reject
Dennis Thornton	64-41	Reject	M D Newman	64-41x1133	Support	Reject
Dennis Thornton	64-42	Accept in part	M D Newman	64-42x1134	Support	Accept in part
Dennis Thornton	64-43	Accept in part	M D Newman	64-43x1135	Support	Accept in part
Dennis Thornton	64-44	Reject	M D Newman	64-44x1136	Support	Reject
Dennis Thornton	64-45	Reject	M D Newman	64-45x1137	Support	Reject
Dennis Thornton	64-46	Reject	M D Newman	64-46x1138	Support	Reject
Dennis Thornton	64-47	Accept	M D Newman	64-47x1139	Support	Accept
Dennis Thornton	64-48	Reject	M D Newman	64-48x1140	Support	Reject
Dennis Thornton	64-49	Accept in part	M D Newman	64-49x1141	Support	Accept in part
Dennis Thornton	64-50	Reject	M D Newman	64-50x1142	Support	Reject
Dennis Thornton	64-51	Reject	M D Newman	64-51x1143	Support	Reject
Dennis Thornton	64-52	Reject	M D Newman	64-52x1144	Support	Reject
Dennis Thornton	64-53	Reject	M D Newman	64-53x1145	Support	Reject
Dennis Thornton	64-54	Accept	M D Newman	64-54x663	Support	Accept
Transit New Zealand	33-1	Accept	Vector Ltd	33-1x256	Oppose	Reject
Transit New Zealand	33-2	Reject				
Transit New Zealand	33-3	Accept	Vector Ltd	33-3x267	Oppose	Reject
Transpower New Zealand Ltd	34-1	reject	Vector Ltd	34-1x258	Support	Reject
Transpower New Zealand Ltd	34-2	reject	Vector Ltd	34-2x259	Support	Reject
Transpower New Zealand Ltd	34-3	reject	Vector Ltd	34-3x260	Support	Reject
Transpower New Zealand Ltd	34-4	reject	Vector Ltd	34-4x261	Support	Reject
Transpower New Zealand Ltd	34-5	reject	Vector Ltd	34-5x262	Support	Reject
Transpower New Zealand Ltd	34-6	Accept in part	Vector Ltd	34-6x263	Support	Accept in part
Transpower New Zealand Ltd	34-7	reject	Vector Ltd	34-7x264	Support	Reject

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
Transpower New Zealand Ltd	34-8	Reject	Vector Ltd	34-8x265	Support	Reject
Transpower New Zealand Ltd	34-9	Accept	Vector Ltd	34-9x266	Support	Accept
Transpower New Zealand Ltd	34-10	Reject	Vector Ltd	34-10x267	Support	Reject
Transpower New Zealand Ltd	34-11	Accept	Vector Ltd	34-11x268	Support	Accept
Transpower New Zealand Ltd	34-12	Accept in part	Vector Ltd	34-12x269	Support	Accept in part
Transpower New Zealand Ltd	34-13	Accept	Vector Ltd	34-13x270	Support	Accept
Transpower New Zealand Ltd	34-14	Accept	Vector Ltd	34-14x271	Support	Accept
Transpower New Zealand Ltd	34-15	Accept in part				
Transpower New Zealand Ltd	34-16	Accept				
Transpower New Zealand Ltd	34-17	Accept	Vector Ltd	34-17x272	Support	Accept
Transpower New Zealand Ltd	34-18	Accept	Vector Ltd	34-18x273	Support	Accept
Transpower New Zealand Ltd	34-19	Reject	Vector Ltd	34-19x274	Support	Reject
Transpower New Zealand Ltd	34-20	Accept	Vector Ltd	34-20x275	Support	Accept
Transpower New Zealand Ltd	34-21	Reject	Vector Ltd	34-21x276	Support	Reject
Transpower New Zealand Ltd	34-22	Reject	Vector Ltd	34-22x277	Support	Reject
Graeme James Trim	211-1 to 53	See 69-1 to 53				
Richard Ussher	212-1 to 53	See 69-1 to 53				
David Valois	65-1	Accept in part				
David Valois	65-2	Accept				
David Valois	65-3	Accept				
Dr Johan Michael VanSchalkwyk	66-1	Accept in part				
Dr Johan Michael VanSchalkwyk	66-2	Accept				
Dr Johan Michael VanSchalkwyk	66-3	Accept				
Dr Johan Michael VanSchalkwyk	66-4	Reject				
Dr Johan Michael VanSchalkwyk	66-5	Reject				
Dr Johan Michael VanSchalkwyk	66-6	Reject				
Dr Johan Michael VanSchalkwyk	66-7	Accept in part				
Dr Johan Michael VanSchalkwyk	66-8	Reject				
Dr Johan Michael VanSchalkwyk	66-9	Accept in part				
Dr Johan Michael VanSchalkwyk	66-10	Accept in part				
Dr Johan Michael VanSchalkwyk	66-11	Reject				
Dr Johan Michael VanSchalkwyk	66-12	Accept				
Dr Johan Michael VanSchalkwyk	66-13	Accept in part				
Dr Johan Michael VanSchalkwyk	66-14	Accept				
Dr Johan Michael VanSchalkwyk	66-15	Accept				
Dr Johan Michael VanSchalkwyk	66-16	Accept				
Dr Johan Michael VanSchalkwyk	66-17	Reject				
Dr Johan Michael VanSchalkwyk	66-18	Accept in part				
Dr Johan Michael VanSchalkwyk	66-19	Reject				
Dr Johan Michael VanSchalkwyk	66-20	Accept in part				
Dr Johan Michael VanSchalkwyk	66-21	Accept in part				
Dr Johan Michael VanSchalkwyk	66-22	Accept in part				
Dr Johan Michael VanSchalkwyk	66-23	Accept in part				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
Dr Johan Michael VanSchalkwyk	66-24	Accept in part				
Dr Johan Michael VanSchalkwyk	66-25	Reject				
Dr Johan Michael VanSchalkwyk	66-26	Reject				
Dr Johan Michael VanSchalkwyk	66-27	Reject				
Dr Johan Michael VanSchalkwyk	66-28	Accept				
Dr Johan Michael VanSchalkwyk	66-29	Accept				
Dr Johan Michael VanSchalkwyk	66-30	Accept				
Dr Johan Michael VanSchalkwyk	66-31	Reject				
Dr Johan Michael VanSchalkwyk	66-32	Reject				
Dr Johan Michael VanSchalkwyk	66-33	Accept in part				
Dr Johan Michael VanSchalkwyk	66-34	Accept in part				
Dr Johan Michael VanSchalkwyk	66-35	Reject				
Dr Johan Michael VanSchalkwyk	66-36	Reject				
Dr Johan Michael VanSchalkwyk	66-37	Reject				
Dr Johan Michael VanSchalkwyk	66-38	Accept				
Dr Johan Michael VanSchalkwyk	66-39	Reject				
Dr Johan Michael VanSchalkwyk	66-40	Reject				
Dr Johan Michael VanSchalkwyk	66-41	Reject				
Dr Johan Michael VanSchalkwyk	66-42	Accept in part				
Dr Johan Michael VanSchalkwyk	66-43	Reject				
Dr Johan Michael VanSchalkwyk	66-44	Reject				
Vector Ltd	35-1	Accept in part				
Vector Ltd	35-2	Accept				
Vector Ltd	35-3	Reject				
Vector Ltd	35-4	Accept				
Vector Ltd	35-5	Reject				
Vector Ltd	35-6	Accept				
Vector Ltd	35-7	Accept in part				
Vector Ltd	35-8	Reject				
Vector Ltd	35-9	Accept in part				
Vector Ltd	35-10	Accept in part	Telecom NZ	35-10x1169	Support in Part	Accept in part
Vector Ltd	35-11	Accept in part				
Vector Ltd	35-12	Reject				
Vector Ltd	35-13	Accept in part	TelstraClear Ltd	35-13x1202	Support	Accept
Vector Ltd	35-13	Accept in part	Telecom NZ	35-13x1170	Support	Accept
Vector Ltd	35-13	Accept in part	Vodafone NZ Ltd	35-13x1189	Support	Accept
Vector Ltd	35-14	Reject				
Vector Ltd	35-15	Reject				
Vector Ltd	35-16	Reject				
Vector Ltd	35-17	Reject				
Vector Ltd	35-18	Reject				
Vector Ltd	35-19	Accept				
Vector Ltd	35-20	Reject				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
Vector Ltd	35-21	Reject				
Vector Ltd	35-22	Reject				
Vector Ltd	35-23	Reject				
Vector Ltd	35-24	Accept in part				
Vector Ltd	35-25	Accept				
Vector Ltd	35-26	Reject				
Vector Ltd	35-27	Accept in part				
Vector Ltd	35-28	Accept in part				
Vector Ltd	35-29	Accept in part				
Vector Ltd	35-30	Accept				
Vector Ltd	35-31	Reject				
Vector Ltd	35-32	Reject				
Vector Ltd	35-33	Reject				
Vector Ltd	35-34	Reject				
Vector Ltd	35-35	Reject				
Vector Ltd	35-36	Reject				
Vector Ltd	35-37	Reject				
Vector Ltd	35-38	Reject				
Vector Ltd	35-39	Accept in part				
Vector Ltd	35-40	Accept				
Vector Ltd	35-41	Reject				
Vector Ltd	35-42	Reject				
Vector Ltd	35-43	Reject				
Vector Ltd	35-44	Accept				
Vector Ltd	35-45	Accept				
Vector Ltd	35-46	Reject				
Vector Ltd	35-47	Reject				
Vector Ltd	35-48	Reject				
S B Vial	213-1 to 53	See 69-1 to 53				
Vodafone NZ Ltd	36-1	Reject	Broadcast Communications Ltd	36-1x456	Support	Reject
Vodafone NZ Ltd	36-1	Reject	Vector Ltd	36-1x278	Support	Reject
Vodafone NZ Ltd	36-1	Reject	Telecom NZ	36-1x1171	Support	Reject
Vodafone NZ Ltd	36-2	Reject	Vector Ltd	36-2x279	Support	Reject
Vodafone NZ Ltd	36-3	Reject	Vector Ltd	36-3x280	Support	Reject
Vodafone NZ Ltd	36-4	Accept in part	Vector Ltd	36-4x281	Support	Accept
Vodafone NZ Ltd	36-5	Accept	Broadcast Communications Ltd	36-5x457	Support	Accept
Vodafone NZ Ltd	36-5	Accept	Vector Ltd	36-5x282	Support	Accept
Vodafone NZ Ltd	36-6	Reject	Vector Ltd	36-6x283	Support	Reject
Vodafone NZ Ltd	36-7	Accept in part				
Vodafone NZ Ltd	36-8	Reject	Broadcast Communications Ltd	36-8x458	Support	Reject
Vodafone NZ Ltd	36-8	Reject	Telecom NZ	36-8x1172	Support in Part	Reject
Vodafone NZ Ltd	36-9	Accept in part				
Vodafone NZ Ltd	36-10	Accept	Broadcast Communications Ltd	36-10x459	Support	Accept

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
Vodafone NZ Ltd	36-11	Accept in part				
Vodafone NZ Ltd	36-12	Accept	Vector Ltd	36-12x284	Support	Accept
Vodafone NZ Ltd	36-12	Accept	Telecom NZ	36-12x1173	Support	Accept
Vodafone NZ Ltd	36-13	Accept in part	Telecom NZ	36-13x1174	Support in Part	Accept
Vodafone NZ Ltd	36-14	Accept in part	Telecom NZ	36-14x1175	Support	Accept in part
Vodafone NZ Ltd	36-15	Reject	Telecom NZ	36-15x1176	Support	Reject
Vodafone NZ Ltd	36-16	Reject	Vector Ltd	36-16x285	Support	Reject
Vodafone NZ Ltd	36-17	Reject	Vector Ltd	36-17x286	Support	Reject
Vodafone NZ Ltd	36-18	Reject	Vector Ltd	36-18x287	Support	Reject
Mark Wallis	214-1 to 53	See 69-1 to 53				Reject
B A Warner	215-1 to 53	See 69-1 to 53				
Watercare Services Ltd	37-1	Accept	Vector Ltd	37-1x288	Support	Accept
Robert John Waters	216-1 to 53	See 69-1 to 53				
I Watson	217-1 to 53	See 69-1 to 53				
S J White	218-1 to 53	See 69-1 to 53				
John Nicholas Wigley	219-1 to 53	See 69-1 to 53				
David JH Wilkins	220-1 to 53	See 69-1 to 53				
Richard Neill Wilkinson	221-1 to 53	See 69-1 to 53				
Ronald James Willcocks	222-1 to 53	See 69-1 to 53				
David Stewart Williams	223-1 to 53	See 69-1 to 53				
John Philip Wilson	38-1	Reject				
John Philip Wilson	38-2	Reject				
John Philip Wilson	38-3	Accept in part	Vector Ltd	38-3x289	Support	Accept
John Philip Wilson	38-3	Accept in part	Transpower New Zealand Ltd	38-3x523	Oppose	Reject
D A Wilson	224-1 to 53	See 69-1 to 53				
Ian Wilson	225-1 to 53	See 69-1 to 53				
Mark Windram	226-1 to 53	See 69-1 to 53				
Kenneth Windsor	227-1 to 53	See 69-1 to 53				
MK Woodfield	228-1 to 53	See 69-1 to 53				
Alan Wooller	39-1	Accept in part				
Alan Wooller	39-2	Reject				
Woosh Wireless Ltd	40-1	Accept				
Woosh Wireless Ltd	40-2	Accept	Vector Ltd	40-2x290	Support	Accept
Woosh Wireless Ltd	40-3	Accept	Vector Ltd	40-3x291	Support	Accept
Woosh Wireless Ltd	40-4	Reject	Vector Ltd	40-4x292	Support	Reject
Woosh Wireless Ltd	40-5	Reject				
Woosh Wireless Ltd	40-6	Reject				
Woosh Wireless Ltd	40-7	Reject				
Woosh Wireless Ltd	40-8	Reject				
Woosh Wireless Ltd	40-9	Accept				
Woosh Wireless Ltd	40-10	Reject				
Woosh Wireless Ltd	40-11	Accept				
Woosh Wireless Ltd	40-12	Reject				

Submitter	Sub No	Accept /Reject	Further Submitter	F Sub No	Support /Oppose	Accept /Reject
Woosh Wireless Ltd	40-13	Accept in part				
Woosh Wireless Ltd	40-14	Accept in part				
Woosh Wireless Ltd	40-15	Reject				
Woosh Wireless Ltd	40-16	Reject				
Woosh Wireless Ltd	40-17	Reject				
Woosh Wireless Ltd	40-18	Reject				
Woosh Wireless Ltd	40-19	Reject				
Woosh Wireless Ltd	40-20	Reject				
Woosh Wireless Ltd	40-21	Reject				
Woosh Wireless Ltd	40-22	Reject				
Woosh Wireless Ltd	40-23	Reject				
Woosh Wireless Ltd	40-24	Accept				
Woosh Wireless Ltd	40-25	Reject				
Woosh Wireless Ltd	40-26	Accept				
Woosh Wireless Ltd	40-27	Accept in part				
Woosh Wireless Ltd	40-28	Accept in part				
Woosh Wireless Ltd	40-29	Reject				
Woosh Wireless Ltd	40-30	Reject				
Woosh Wireless Ltd	40-31	Reject	TelstraClear Ltd	40-31x1203	Support in Part	Reject
Woosh Wireless Ltd	40-31	Reject	Telecom NZ	40-31x1177	Support	Reject
Woosh Wireless Ltd	40-31	Reject	Vodafone NZ Ltd	40-31x1190	Support in Part	Reject
Woosh Wireless Ltd	40-32	Reject				
Woosh Wireless Ltd	40-33	Reject				
Woosh Wireless Ltd	40-34	Accept	Broadcast Communications Ltd	40-34x460	Support	Accept
Woosh Wireless Ltd	40-35	Reject				
Woosh Wireless Ltd	40-36	Accept in part				
Clarence Robert Young	41-1	Accept				
Clarence Robert Young	41-2	Accept in part				