

Policy AQL15 Phase out older style enclosed burners in the Christchurch Clean Air Zone 1 ## 03-040 30 00 - 03-040 32 00

2	M. Journeaux	Delete Policy AQL 15.
3	R. Marsh	Put the ban on hold until the effects of the open fire ban can be measured.
18	R. Vore	Support.
25	Lowry & Associates	Restrict rather than prohibit. Allow burning of char/charcoal only.
27	D. Child	Concerned with the proposal to cut out older wood burners.
30	M. de Lacey	Support, if it was accompanied by efficient use.
31	A. & H. Grant	Disagree with the proposal to phase out log burners. No decision requested.
35	M. Singleton	Delete all references to a final date for phasing out old log burners and replace with policies and rules that require all replacement burners to meet emission standards.
42	H. W. Burson	The use of solid fuel burners /wood burners should be encouraged, with equal rights between an existing or new installation. New emission and energy levels could be set, enabling science to design burner units to suit improved standards using all of their available energy.
52 (point 1)	S. A. Corry	Make the date of the prohibition of old burners the same date as AQL14, either January 2006, 2007 or 2008. Amend the wording exempting those covered by Policy AQL17 be for small scale burning appliances, not enclosed burners.
52 (point 2)	S. A. Corry	Clarify whether the use of the words 'use of fires' in Policy AQL 14 should be consistent with the words 'prohibiting the discharge' in Policy AQL 15. (Refer submission point 3-38-31)
57	E. Duurloo	Delete Policy AQL 15, and make it obligatory to burn only clean, dry fuel.
68	M. J. Duncan	Reword to read "...January 2013 or 20 years after the date of installation..."

70	H. D. Johnson	Oppose a total ban on enclosed solid burners. No decision requested.
83	K. & S. Austin	Support Policy AQL 15. The emphasis should be on getting rid of open fires and coal burners which do not meet Clean Air Standards.
87	B. McKessar	Agrees with phasing out of older, lower efficiency woodburners.
88	P. T. Knowles	Support.
89	J. McSweeney	Support. Adopt as stated.
90	H. Black	Change 2008 to 2003, and amend policy as follows: "...prohibit from 1 January 2003, the discharge of contaminants to air..."
93	P. R. Griffiths	Rescind or cancel any proposed rules to stop the use of solid fuel burners.
103	G. I. Town	Needs amending to 2005.
106	J. Fone	Oppose the proposal to phase out solid fuel heaters, especially wood burners.
110	Christchurch City Council - Shirley/Papanui Community Board	Support. Consider whether anything can be done in the meantime about older log burners that have a dampening mechanism, which should be discouraged.
114	N. Harris	Support, but bring date forward to 1-1-04.
115	L. Wilkinson	Adopt the same rules for control and phase out of enclosed burners applying to Christchurch in the Plan to apply to areas/individual cases where problems are apparent or existing in high density housing areas outside of Christchurch.
116	G. Halstead	Oppose the prohibition or restriction on log burners. New logburner installations should be of the low emission type.
119	D. Jones	ECan should work to find the best wood burners with the least particulate emission, not banning them. Education would help. More research needs to be done.
120	Christchurch City Council, Fendalton Service Centre	Review the timeframe so that there is a much more acceptable process for the proposed phase out.

137	L. Griffiths	Retain.
156	N. Clark	Delete policy AQL15.
159	J. C. Elliott	Retain policy AQL15.
165	D. R. McAlister	Replace 15 years with 20 years.
171	Mrs I. Scott & Mrs A. Lingard	Support.
173	S. Compton	Amend to provide assistance to update burners to clean air ones.
174	G. Compton	Give assistance to change to clean burners.
176	Golf Links Residents Association Inc.	Support.
187	T. Cormack	Delete policy AQL 15.
188	D. Stanford	Delete policy AQL 15.
200	J. Ponsonby	Delete reference to prohibiting the use of solid fuel burning devices now and in the future.
203	Christchurch Home Heating Action Group	Delete reference to prohibiting the use of solid fuel burning devices now and in the future.
215	Canterbury Aoraki Conservation Board	Ban woodburners that do not meet emission standards by 2006; ban all existing woodburners 15 years after installation if they do not meet emission standards; ban installation of new woodburners from date of implementation of Air Plan. Apply this policy to both Clean Air Zones 1 & 2.
217	M. C. Day	Support.
218	G T Design Ltd	Support policy AQL 15.
220	NZ Home Heating Assn	Delete policy AQL 15.
223	P. F. Dobbs	Delete policy AQL 15 or extend the time period e.g. 30 years after installation.
228	W. & R. Teeuwen	Amend to read: 'In the Christchurch Clean Air Zone 1, prohibit from 1 January 2004 or 10 years after the date of installation, whichever is the later date,...'

283	A. P. Rich	The phase out of old woodburners should be by education rather than banning them. Reword policy to reflect this.
302	C. J. McInnes	Oppose Policy AQL 15.
314	R. E. Scott	Extend the life of the older style high emission burners to 20 years or when not functional.
316 (point 1)	S. D. Bensberg & T. Weight	Old solid fuel burners not meeting the standard of 1.5g per kg should be phased out over the life of the appliance - eg 15-20 years from installation, but not before 2015.
316 (point 2)	S. D. Bensberg & T. Weight	Support transition from older wood burners/solid fuel heaters to cleaner burning appliances.
318	D. A. Bryers	Delete Policy AQL 15, or delay.
319	L. S. Hazel	Delete Policy AQL 15, or delay.
320	P. J. McInnes	Delay Policy AQL 15.
321 (point 1)	B. J. Swale	Investigate techniques to reduce particulate emissions, by sponsored research. The public should be kept informed of progress and developments in this investigation and the research.
321 (point 2)	B. J. Swale	The proposal to restrict solid fuel burner should be reduced and deferred.
321 (point 3)	B. J. Swale	Do not bring forward the dates in Policy AQL 15.
325	I. M. E. Bailey	Do not put in place an across the board ban.
331 (point 1)	J. F. Ball	Apply the same considerations and exemptions to pre 1920's houses.
331 (point 2)	J. F. Ball	Delete Policy AQL 15.
331 (point 3)	J. F. Ball	A 15 year replacement life for heaters is very short. No decision requested.
332	H. C. Evison	Delete Policy AQL 15.
333	New Zealand Clean Air Society Inc.	Have the date earlier than 2008; have supervision, and monitor the use of woodburners.

350	J. Syddall	Support, except when a certificate of compliance has already been issued for a longer period.
356 (point 1)	R. Robins	Develop and subsidise retrofitted afterburners to reduce PM10 from older installations.
356 (point 2)	R. Robins	Retain the use of woodburners.
357	R. F. Griffiths	Do not phase out log burners.
362	R. M. Wells	Delete Policy AQL 15.
366	R. C. Lawrie	Delete Policy AQL 15.
367	Kenalla Enterprises Ltd	Delete Policy AQL 15.
376	S. V. R. Young	Amend Policy AQL 15 so that it does not apply to: - wood burners which do not contribute to the air pollution beneath the inversion layer; - wood burners which are not used during periods of air pollution; - wood burners that are not frequently used enough for the 15 year life span to apply; - wood burners that have been installed in accordance with the CCC' clean air policy and should be controlled by permits issued at the time.
377	S. Claridge	Allow for the continued use of wood burners.
379	Christchurch City Council, Civic Offices	Support.
382	W A & PH Burrows	Support phasing out of older burners that do not meet the 1g/kg + 65% efficiency criteria.
400	A. A. Anderson	Ensure a level playing field for heating methods - have no differentiation, just an emission stipulation and with a test standard in case of complaint and /or monitoring.
420	P. Allan	Phase conversion of inefficient solid fuel burners to efficient ones.
423	P. Sintes	Older style enclosed wood burners emitting visible smoke in the Christchurch Clean Air Zones 1 and 2 should be prohibited from use immediately and should be phased out by January 2006, except in circumstances described in Policy AQL17.

426	Housing New Zealand Corporation, Papanui	If the amendments made to Policy AQL 11 and Rule AQL 2 are not accepted (refer 3-32-21 and 3-63-3-a-16) delete Policy AQL 15, or amend the timeframe that is realistic and achievable and does not incur extra costs to HNZN or its tenants. Make any other amendments as necessary to the Plan and be consistent with this change.
440 (point 1)	S. P. Krumdieck	Ban visible emissions from domestic chimneys; violators to have 10 minutes in which to remedy and comply or face fine. Second infringement results in loss of right to burn and impoundment of any wood supply.
440 (point 2)	S. P. Krumdieck	Require rental properties to install pellet fires, and allow the installation of pellet fires into any residence of any age.
441	P. D. Tinnelly	Support.
442	R. Verity	Stop targeting solid fuel burning.
443	P. Miller	Remove coal fires and log burners.
444	M. A. Hurrell	A ban on burners should only be invoked if replacement of burners by low emission devices failed to be effective.
445	G. & F. Harman	Consider the economic impact of phasing out wood burners.
894	P. N. Parker	Submitter concerned with the proposal to ban most wood burners from 1st January 2006. No decision requested.
898	J. Hawtin	Support.
900	W. R. Schofield	Amend Policy AQL 15 to provide exemption of emission standards for in-built burners.
901	D. G. Kinley	Delete Policy AQL 15.
905	E. R. Beckwith	Delete Policy AQL 15.
912	R. Wild	Do not cut out wood burners that have low emissions.
969	M. & S. Jones	Log burners should stay.
978	D. K. & J. A. Lavender	Do not take away the right to use a log burner.

F112	Solid Energy New Zealand Ltd	Support submission 218.
F426 (point 2)	Housing NZ Corp	Support submission 316 (point 1).

Consideration

Submissions 2, 3, 27, 31, 35, 42, 57, 70, 93, 106, 116, 119, 156, 187, 188, 200, 203, 220, 223, 283, 302, 318, 319, 320, 321 (point 2), 325, 331 (point 2), 332, 356 (point 2), 357, 362, 366, 367, 376, 377, 442, 894, 900, 901, 905, 912, 969, 978

These various submitters seek that Policy AQL15 should be deleted, or its introduction delayed or they oppose a total ban on enclosed solid fuel burners. Some assert that policies and rules should be put in place that require or encourage compliance with emission standards or require that only certain fuels are burnt. Others favour education - some research. Submitter 377 sought specific exceptions.

The submitters variously cite reasons such as the cost of electricity; that wood is a renewable and reliable resource; the uncertainty of electricity, gas and diesel fuel supplies; choice; energy efficiency; new technologies; burn only clean, dry fuel; emergency use; research is needed; carbon neutral; Kyoto Agreement; questionable science; cold homes and increased health problems; the inversion layer; economic impact; and no inbuilt woodburners meet criteria.

As stated in its explanation and principal reasons Policy AQL15 recognises that older enclosed burners are inherently more polluting than 'new generation' models meeting the emission criteria in Policy AQL11. The Policy seeks to promote cleaner methods of home heating. It notes that accelerating the phase out of older more polluting burners will reduce overall emissions.

Policy AQL15 seeks to reduce the number of non-complying small scale fuel burning devices - the Christchurch Clean Air Zone 1. This is consistent with Environment Canterbury's understanding of what must occur to meet Objective AQL3 (and now NES). The Christchurch airshed can only sustain a finite number of polluting devices. That number is less than the numbers which are currently installed and used. If the air quality targets are to be met, and the draconian consequences of failing to comply with the NES target by 2013 are to be avoided - the number of burners must be reduced. Waiting for natural replacement will not result in sufficient reductions in time. Given the time constraints, further delay can not be accommodated. There are difficulties with a policy such as that proposed - but they are not insuperable and in the Commissioners' view, on the materials made available to them, Policy AQL15 is appropriate.

In large part the reason for reducing the number of burners has already been analysed. Reference is made to Policy AQL11, Objective 3 and Policies AQL13 and 14. The various analyses there undertaken are adopted. It is recommended that these submissions are rejected.

Submissions 18, 30, 83, 87, 88, 89, 110, 137, 159, 171, 176, 217, 218, supported by F112, 316 (point 2), 350, 379, 382, 420, 441, 443, 444, 898

The submitters support Policy AQL15 and the phasing out of older non-complying burners. Submitters 89 and 137 assert that this is vital to the health of Christchurch and its residents. Submitter 350 supports Policy AQL15 except when a certificate of compliance has already been issued for a longer period.

The reasons for Policy AQL15 were noted immediately above. Express reference was made to Objective AQL3 and to the NES. The Commissioners have dealt with the requests in favour of cleaning up Christchurch's air elsewhere - eg in response to Policy AQL11, Objection AQL 3, and Policy AQL13 and 14. They have also summarised the research undertaken by ECan - Chapter 3, Overview. They adopt those analyses. They agree that the phasing out of older style burners is an important step towards cleaning up the air in the Christchurch Clean Air Zone 1. They consider that there are public benefits to be gained, and therefore they recommend that these submissions be accepted. They also agree with those submitters who emphasize the need for the efficient use of all burners, and who advocate phasing out non-complying burners.

They are not altogether sure what submitter 350 is referring to when he mentions a "certificate of compliance". If he is referring to a certificate issued under the RMA, then he will have to take legal advice as to the effect of the Plan, once operative, on that certificate. If it is something less, then the Plan will probably prevail. In the absence of further detail it is recommended that this aspect of the submission be declined.

With this exception it is recommended that the submissions be accepted.

Submission 25

The submitter seeks that Policy AQL15 should allow the burning of char/charcoal only i.e. smokeless but costly fuels.

Smokeless fuel was specifically examined in Environment Canterbury's *Section 32 Report* (pgs 227 – 228 and 238). Requiring the use of such fuel was rejected because of the lack of supply in Christchurch and New Zealand, and the limited information available on likely emissions (pg. 238). The conversion to completely smokeless fuels is impractical. It is recommended that this submission is rejected.

Submission 52 (point 1)

The submitter supports Policy AQL15 in part, but seeks that the prohibition date is the same as for open fires as it would be easier to educate people on what is prohibited at once, easier to set up a compliance scheme, and be simpler for the public to understand.

In the Commissioners' view this proposal would have some merit if more time were available. As matters stand it has the potential to be draconian. Regardless of the timeframe it will be necessary for ECan to ensure that the public is well-informed of the provisions, and that closer to the time, each provision is continually publicised.

On balance it is recommended that this submission is rejected.

Submission 52 (point 2)

The submitter suggests that the intent of the Policy AQL15 should be to phase out both enclosed burners and open fires, and that it should be reworded to incorporate both types of device. She also queries whether the wording should be changed to be consistent with that in Policy AQL14.

Policy AQL15 focuses on older style enclosed burners. Policy AQL14 focuses on open fires. In regard to the consistency sought - this matter was considered above - ## 03-038 31 00, 52. That analysis is adopted. It is recommended that this submission is rejected.

Submissions 68, 120, 165, 223, 314, 316 (point 1), 331 (point 3), 426, F426 (point 2)

The submitters consider that the timing is too short. They suspect that it should be 20 or 30 years and assert that many burners will still be in good condition after 15 years. Submitter 316 (point 1) considers the phasing out should not be before 2015.

The Commissioners were advised that fifteen years was chosen on the basis of research which identified that the average life of a burner is between 12 and 20 years, depending on how often the burner has been used and how well it has been operated. The Commissioners accept that a different period could have been chosen - but agree that fifteen years is a reasonable compromise. It is recommended that these submissions are rejected.

Submissions 90, 103, 114, 228, 333, 423

Submitter 90 would support Policy AQL15 if changes were made to bring the ban on enclosed burners into effect sooner and suggests 1 January 2003 as the appropriate date. Submitter 103 supports Policy AQL15 and suggests an earlier date of 1 January 2005. Submitter 114 supports Policy AQL15 and seeks an earlier date of 1 January 2004. Submitter 228 seeks that Policy AQL15 is reworded to read "*In the Christchurch Clean Air Zone 1 prohibit from 1 January 2004 or 10 years after the date of installation, whichever is the later date, etc*" so as to ensure that air pollution in Christchurch will be at or below the national guideline level with no exceedences by 2012. Submitter 333 would prefer to have an earlier date than 2008, and have supervision and monitoring the use of woodburners. Submitter 423 seeks that older style enclosed woodburners emitting visible smoke should be prohibited from immediate use and phased out by January 2006, except for emergencies as described in Policy AQL17.

The substance of these submissions was considered in relation to submitter 50 (point 2) - ## 03-000-00-00.

Recent emissions forecasts have suggested that the current Chapter 3 provisions will achieve the air quality target in the NES by 2015 but that uncertainty with compliance may mean that the target is not met until sometime thereafter.

The reporting officers recommended to the Commissioners that they should bring forward the date of phasing out older style enclosed burners. This option was beyond the scope for submission 50 (point 2) but the Commissioners accept that this aspect is within the scope of the submissions here under consideration. The officers recommended that the Commissioners should reduce the economic life of a non-complying enclosed burner by three years – so that the revised economic life would be 12 years rather than 15 years. They suggested that this would have a similar effect to bring forward the date of phasing out as more non-complying burners would need to be replaced earlier.

The Commissioners disagree with this approach. The fifteen year period detailed in Policy AQL15 is an approximation of the date by which an appliance will have reached the end of its useful and economic life. It is a compromise date taken from various estimates obtained. It is supposed to be a factual approximation. To alter the date to achieve the collateral purpose of seeking to comply with the NES by an earlier date would be improper. It would also place a potentially draconian burden on householders who currently utilize relatively recently installed enclosed burners. There has been no analysis of the consequences and the Commissioners are not prepared to make the alteration suggested on the limited material put before them.

The Commissioners repeat the recommendation they made in relation to submission 50 (point 2). The Regional Council will have to consider a variation if it wishes to better provide for the attainment of the NES targets.

It is recommended that these submissions are rejected.

Submission 110

The submitter asks Environment Canterbury to consider whether anything can be done pending the prohibition coming into force about older logburners that use a dampening mechanism.

Environment Canterbury has already undertaken and continues to undertake education and information provision initiatives to encourage people to voluntarily refrain from using solid fuel burners on nights of high pollution potential. It also seeks to educate on proper burner use. This includes not dampening down the burners. These programmes should continue. It is recommended that this submission be accepted in part.

Submission 115

The submitter seeks that the same rules for small scale fuel burning devices for Christchurch are adopted from areas outside of Christchurch.

Policy AQL15 is particular to Christchurch Clean Air Zone 1. However, it is noted that the 2002 emissions forecast for Timaru indicates that the air quality target under Objective AQL3 (and therefore for the NES target as well) will not be met until 2017. Environment Canterbury is undertaking new emission inventories for Kaiapoi, Rangiora, Timaru and Waimate and the Commissioners were told that it will be using these as a basis for future emissions forecasts. Until this work is completed it is not recommended that the same provisions that are intended to apply to Christchurch Clean Air Zone 1 should be applied to other urban areas throughout Canterbury. The emissions forecast may suggest alternative methods. Local communities might prefer alternatives. It is recommended that this submission is rejected.

No change is recommended.

Submissions 173, 174

The submitters seek that the Policy AQL15 should be amended to include financial assistance to update burners to clean air ones.

Method AQL15(b) provides the mechanism for financial incentives and assistance to replace non-complying burners. The submissions can be accepted, but no change to the plan is necessary.

Submission 215

Submitter 215 seeks that there should be a ban on woodburners that do not meet emission standards by 2006; a ban on all existing woodburners 15 years after installation if they do not meet emission standards; and a ban the installation of new woodburners from date of implementation of Air Quality Plan. It says that these bans should apply to both Clean Air Zones 1 and 2.

Submitter 215 asserts *“that many Christchurch and Canterbury residents still have a contradictory, inconsistent, and old-fashioned attitude to air quality. They bemoan air pollution, call for action, then slam the door and stoke up the woodburner. .. The residents in Canterbury need to accept that if they want clean air they will have to pay more to heat their homes.”*

Policy AQL11 and Rule AQL2 provide the emission criteria for complying burners for all of Canterbury. Policy AQL15 and Rule ALQ 11 allow existing non-complying burners to be used for their estimated 15 year economic life, and Policy AQL13 and Rule AQL9 prohibit the installation of new woodburners in new homes or existing homes that currently do not have a solid fuel burner. However, Policies AQL13 and AQL15, and associated Rules AQL 9 and AQL11, only apply to Christchurch Clean Air Zone 1 as this is where the majority of burners are located. The policies in the Clean Air Zone 1 are relatively strict. The Commissioners consider that they should not be applied to Zone 2 unless there is good reason to do so. There has been no adequate analysis to date to justify that step.

The Commissioners do note that the Clean Heat Project is available to anyone in Christchurch. This may encourage households in Christchurch Clean Air Zone 2 to voluntarily replace their non-complying burners with cleaner forms of heating.

Elsewhere the Commissioners have recommended that ECan needs to consider a variation if it wishes to make better provisions to accommodate the NES within the prescribed timeframe. See submission 50 (point 2) ## 03-000-00-00. The point made by the submitter may be a matter which could be considered in that context. In the interim it is recommended that the submission is rejected.

Submissions 321 (point 1), 356 (point 1)

The submitters seeks that techniques for the reduction of particulate emission should be investigated, by sponsored research if this will help, to produce a range of effective techniques and that the public should be kept informed of progress.

This submission is analysed above - see Policy AQL13(b), ## 03-036 45 00 to 03-037 01 00. The same reasoning is adopted. If the submitter is seeking that funding from Environment Canterbury to assist in such research, this can be undertaken through the Long Term Council Community Plan and Annual Plan process. It is recommended that the submission is rejected.

Submission 321 (point 3)

This submitter sought that the date in Policy AQL15 should not be brought forward. Given the Commissioners other recommendations in this regard - it is recommended that this submission is accepted.

Submission 331 (point 1)

The submitter seeks that an exemption for pre-1920's houses should be provided.

As discussed above, any relaxation of the controls moves Christchurch away from achieving Objective AQL3 and the NES. The financial incentives available under the Clean Heat Project can assist. It is recommended that this submission is rejected.

Submission 356 (point 1)

This submitter suggests that provision should be made for the retrofitting of after burnings to reduce PM₁₀ from older installations.

The Commissioners have recommended in another context that Environment Canterbury needs to consider a variation to allow for new technology - see ## 03-000 00 00, 98 (points 1 & 4), 136 and 277. The Commissioners repeat that analysis. If new technology can be retrofitted, they would expect that any variation promoted by Environment Canterbury would allow for that possibility. It is recommended that the submission be accepted in part, but that no change to Chapter 3 is required.

Submission 400

The submitter seeks a level-playing field for heating methods – no differentiation, just an emission stipulation and with a test standard in case of complaint and/or monitoring.

Policy AQL11 provides the criteria for complying woodburners. Both Rule AQL2 and the NES for woodburners use the AS/NZS 4012/13 methodology for the testing of woodburners. Any alternative methodology would not be able to take precedence over the NES as Regulation 22 specifically prohibits the discharge from woodburners in a building on a property with an allotment size of less than 2 hectares if it does not comply with the design and thermal efficiency standards set in Regulations 23 and 24. Therefore an alternative testing methodology cannot be recommended at this time. It is recommended that this submission is rejected.

Submission 440 (point 1)

The submitter seeks that visible emissions from domestic chimneys should be banned with enforcement procedures such as fines, loss of the right to burn and impoundment of any wood supply on the property.

Policy AQL2 allows for the discharge of particulate matter and odour associated with start-up and refuelling. It is difficult, if not impossible, to stop visible emissions at these times. If there are significant nuisance effects, Environment Canterbury can use the Method AQL15(e) Compliance and enforcement, as necessary. There are also significant enforcement issues with the suggested ban. It is recommended that this submission is rejected.

Submission 440 (point 2)

The submitter requests that pellet fires should be installed in rental properties and suggest that they should be permitted to be installed in any residence of any age.

The technical reasons for limiting the number of solid fuel burners in Christchurch Clean Air Zone 1 has been explored extensively above – the airshed can only accommodate a finite level of PM₁₀, if clean air targets are to be achieved and therefore a finite number of small scale solid fuel burners. The substance of this submission has been evaluated at submission 50 (point 2) ## 03-000-00-00. That analysis is adopted. It is recommended that the submission is rejected.

Submission 445

The submitter is concerned about the economic impact of phasing out wood burners and acknowledges the availability of the Clean Heat Project but does not consider this to be enough.

Any changes to the subsidies available under the Clean Heat Project can only be made through Environment Canterbury's Long Term Council Community Plan and Annual Plan processes. It is recommended that this submission is rejected.

Recommendation

Reject

Submissions 2, 3, 25, 27, 31, 35, 42, 52 (points 1 and 2), 57, 68, 70, 90, 93, 103, 106, 114, 115, 116, 119, 120, 156, 165, 187, 188, 200, 203, 215, 218, 220, 223, 228, 283, 302, 314, 316 (points 1), 318, 319, 320, 321 (points 1 and 2), 325, 331 (points 1, 2 and 3), 332, 333, 356 (points 1 and 2), 357, 362, 366, 367, 376, 377, 400, 420, 423, 426, 440 (points 1 and 2), 442, 445, 894, 900, 901, 905, 912, 969, 978, F426 (point 2).

Accept

Submissions 18, 30, 83, 87, 88, 89, 137, 159, 171, 173, 174, 176, 217, 218, 316 (point 2), 321 (point 3), 379, 382, 420, 441, 443, 444, 898, 912, F112.

Accept in part

Submissions 110, 350, 356 (point 1).

Amendment Required

None required.

Method AQL15(a) Information and promotion ## 03-041 24 00

110	Christchurch City Council - Shirley/Papanui Community Board	Provide a information phone line, and/or an information officer to visit people's homes (especially the elderly) on request, to take them through the required changes.
200	Julie Ponsonby	Set sustainable air emission targets which enable and encourage innovation and technological improvements to meet standards or targets over time rather than prescribing the method of achieving such targets.

Consideration

Submission 110

The submitter seeks that there should be an information phone line, and/or an information officer to visit people's homes on request, to take them through the changes.

The Commissioners were told that Environment Canterbury provides a Customer Services phone line and that operators are skilled in relation to dealing with heating type calls. There is also an Heat Advisory Service, where an officer will on request go out to a home to discuss solid fuel heating issues. The assessors involved in the Clean Heat Project are also well-versed in what options should suit a particular household. The Commissioners endorse these various steps and hope that they will continue. It is recommended that the submission is accepted - but no change is requested to Chapter 3.

Submission 200

Submitter 200 seeks sustainable air emission targets which enable and encourage innovation and technological improvements to meet standards or targets over time rather than prescribing the method of achieving such targets.

With the introduction of the NES, the debate has moved from the setting of an ambient air quality objective, to determining what are the most appropriate methods to achieve the mandated target. Domestic heating using small scale solid fuel burning appliances is the predominant source of PM₁₀ emissions in wintertime in the Christchurch airshed. Therefore there are policies, methods and rules to help manage emissions from this source. Motor vehicles and industry are also subject to regulation by Chapter 3.

Method AQL13(a) is a non-regulatory method which seeks to provide information on cleaner forms of heating and to promote energy efficiency so that people can use this information of non-solid fuel burners in their home heating choice when replacing their solid fuel burners. The plan to an extent encourages innovation and technological improvement. The Commissioners do not consider that an approach relying only on the setting of targets would suffice. Therefore they recommend that this submission is rejected.

Recommendation

Reject

Submission 200.

Accept

Submission 110.

Amendment Required

None required.

Method AQL15(a) (ii) ## 03-041 28 00 - 03-041 29 00

110	Shirley/Papanui Community Board	Supports the promotion of energy efficiency and the use of other forms of clean heating.
218	G T Design Ltd	Amend to read: '...diesel, pellet fire appliances and other forms...'
293	C. J. & V. Burrows	Oppose the promotion of diesel and gas burners for home heating. No decision requested.
310	Pellet Fuels New Zealand Ltd	Include pellet fires as a clean form of heating and exclude from the solid fuel category.
322	Pellet Fireplaces New Zealand Ltd	Include pellet fires as a clean form of heating and exclude from the solid fuel category.
405	Timaru District Council	Delete the promotion of diesel.
433	Rockgas Ltd	Delete the word 'flued', 'gas'.
F112	Solid Energy New Zealand Ltd	Support submission 218.

ConsiderationSubmission 110

The submitter supports the promotion of energy efficiency and the use of other forms of clean heating.

The Commissioners agree and do not propose altering the Method AQL15(a) to suggest otherwise. It is recommended that this submission is accepted.

Submission 218, supported by F112, 310, 322

The submitters seek that new generation solid fuel burners and pellet fires should be added in Method AQL15(a)(ii). Submitter 293 opposes the promotion of diesel and gas as they are non-renewable fuels and electricity is expensive.

Policy AQL15 deals with the phasing out of non-complying small scale fuel burning devices. This is consistent with Environment Canterbury's understanding of what must occur to meet Objective AQL3 (and now the NES). Even with low emission small scale solid fuel burning devices, the Christchurch airshed can only sustain a finite number of such devices; the number is less than the number that is currently installed and in use. The changes sought would move away from the attainment of Objective AQL3. The Commissioners considered this issue in relation to Policy AQL13, Method AQL13(a) at ## 03-036 42 00 to 03-036 43 00, 71, 82, 108 (points 1 and 2), F365, 141, 161, 165, 218, F112, 223, 236, 293, 300, 310, 322, 333, and 405. They adopt that analysis. It is recommended that these submissions are rejected.

Submissions 293 and 405

Submitter 405 seeks that the promotion of diesel is deleted.

This submission was considered above in the context of Method AQL13(a), at location ## 03-036 42 00, - 03-036 43 00, 71, 82, 108 (points 1 and 2), F365, 141, 161, 165, 218, F112, 223, 236, 293, 300, 310, 322, 333, and 405. That analysis is adopted. It is recommended that this submission is rejected.

Submission 433

The submitter seeks that the reference to “flued” gas is deleted.

Method AQL15(a) refers to cleaner forms of heating that can replace solid fuel burning devices. It does not detail an exclusive list. It is noted that the Clean Heat Project does not subsidise portable heating such as unflued gas devices. Any changes to the Clean Heat programme can be undertaken through the Long Term Council Community Plan and Annual Plan process. It is recommended that this submission is rejected.

Recommendation

Reject

Submissions 218, 293, 310, 322, 405, 433, F112.

Accept

Submission 110.

Amendment Required

None required.

Method AQL15(b) Financial incentives and assistance ## 03-041 31 00

3	R. Marsh	See Submission 446.
27	D. Child	See Submission 913.
29	H. B. Aston	Add new paragraph to the method "(iv) provide financial and other assistance for development of small scale solid fuel burners that will consistently meet the emission standards in Policy AQL11. Additional funding should be made available for successful development of such burners that substantially exceed this standard."

47	L. L. J. Griffiths	Make available \$300 on going heating cost grants to low income community service card holders.
51	D. W. King	Submitter opposes his rates being wasted on subsidising any appliance that emits any polluting particulates. Submitter does not oppose rates being used to subsidise improved insulation for people on low incomes. No decision requested.
71	G. & G. Moss	See Submission 446.
84	B. & R. Buxton	See Submission 446.
93	P. R. Griffiths	Rescind or cancel any proposal to provide incentives and assistance for Christchurch
96	C. Parry-Jennings	Support.
110	Christchurch City Council - Shirley/Papanui Community Board	Support. Increase the subsidy to up to \$1500.
115	L. Wilkinson	There be no financial assistance to replace an enclosed burner in an urban areas where there is a problem arising from nuisance or a health issue anywhere in the region. Make financial assistance available to all in the region on low income to change to clean heating where there was /are problems with enclosed burners.
130	P. L. Berry & J. F. J. Mason	See Submission 913.
141	D. Lewis	See Submission 446.
149	G. Gould	See Submission 446.
150	D. Columbus	See Submission 446.
154	D. Stedman	State what the subsidies really are - added costs to all citizens.
173	S. Compton	Provide financial assistance to replace open fires and non-complying burners.
181	M. Gunn	See Submission 869.
195	G. & F. Barclay	See Submission 913.

236	New Zealand Institute Of Forestry Inc, Canterbury Branch	Method AQL15(b) should include the provision to modify/refurbish existing older burners, plus intensives to convert to new solid fuel burner if the owners desire.
316	S. D. Bensberg & T. Weight	Use subsidies to help families making the transition from open fires and older non-complying heaters to complying solid fuel burners.
335	A. R. Creed	See Submission 913.
375	R. J. Cummins	See Submission 913.
423	P. Sintes	See Submission 446.
440	University Of Canterbury	Use clean air fund to finance pellet fires, as a loan.
446	C. Coker	Allow the installation of new generation wood burners in new housing.
447	J. Henry	See Submission 446.
448	B. West	See Submission 446.
449	R. Taylor	See Submission 446.
450	N. & Y. Jordan	See Submission 446.
451	W. Boon	See Submission 446.
452	A. B. Williams	See Submission 446.
453	D. M. Lindsay	See Submission 446.
454	L. & M. Harper	See Submission 446.
455	G. Slade	See Submission 446.
456	J. Lane	See Submission 446.
457	R. & M. Shaw	See Submission 446.
458	E. Sagers	See Submission 446.
459	R. Greenhough	See Submission 446.
460	M. Wyatt	See Submission 446.

461	E. Scott	See Submission 446.
462	T. White	See Submission 446.
463	S. Waters	See Submission 446.
464	W. Turner	See Submission 446.
465	K. Durie	See Submission 446.
466	N. Hartstonge	See Submission 446.
467	D. Sintes	See Submission 446.
468	J. Jarney	See Submission 446.
469	W. Robinson	See Submission 446.
470	T. O'Neill	See Submission 446.
471	H. & J. Boxall	See Submission 446.
472	W. Nimmo	See Submission 446.
473	A. Black	See Submission 446.
474	M. Woodhead	See Submission 446.
475	G. Berryman	See Submission 446.
476	R. Scowen	See Submission 446.
477	S. Merry	See Submission 446.
478	J. Steeds	See Submission 446.
479	J. Carter	See Submission 446.
480	B. Church	See Submission 446.
481	L. Gourlie	See Submission 446.
482	J. & S. Clark	See Submission 446.
483	H. McLachlan	See Submission 446.
484	J. Hammond	See Submission 446.
485	J. Melvyn	See Submission 446.

486	R. & G. Devereux	See Submission 446.
487	J. Morrison	See Submission 446.
488	J. Kennedy	See Submission 446.
489	J. Johnston	See Submission 446.
490	P. Bates	See Submission 446.
491	N. Ashton	See Submission 446.
492	P. Kendall	See Submission 446.
493	B. Albertson	See Submission 446.
494	G. White	See Submission 446.
495	F. Slade	See Submission 446.
496	A. Skerten	See Submission 446.
497	D. Bedford	See Submission 446.
498	L. Petelo	See Submission 446.
499	A. Gillman	See Submission 446.
500	L. & M. Reynolds	See Submission 446.
501	C. Smith	See Submission 446.
502	F. Masters	See Submission 446.
503	M. Miller	See Submission 446.
504	R. Peck	See Submission 446.
505	B. Lawson	See Submission 446.
506	R. Maysen	See Submission 446.
507	D. Kitchingman	See Submission 446.
508	L. McMillan	See Submission 446.
509	A. Isaac	See Submission 446.
510	D. Robertson	See Submission 446.

511	M. Milne	See Submission 446.
512	M. Gardenbroek	See Submission 446.
513	B. Craik	See Submission 446.
514	T. Wallace	See Submission 446.
515	L. Campbell	See Submission 446.
516	D. B. & N. Law	See Submission 446.
517	J. Scott	See Submission 446.
518	K. Schumacher	See Submission 446.
519	E. Grigor	See Submission 446.
520	R. & A. Entwistle	See Submission 446.
521	P. Campbell	See Submission 446.
522	M. Windleburn	See Submission 446.
523	S. Woods	See Submission 446.
524	A. Wills	See Submission 446.
525	I. Clement	See Submission 446.
526	B. Grainger	See Submission 446.
527	G. Robb	See Submission 446.
528	J. Waters	See Submission 446.
529	G. W. Pitcher	See Submission 446.
530	G. Willis	See Submission 446.
531	W. Lay	See Submission 446.
532	S. Kennedy	See Submission 446.
533	B. & P. McCartney	See Submission 446.
534	R. Vesey	See Submission 446.
535	B. Garnett	See Submission 446.

536	B. Brosnahan	See Submission 446.
537	S. Clark	See Submission 446.
538	S. Fitzsimon	See Submission 446.
539	P. Common	See Submission 446.
540	J. Bain	See Submission 446.
541	S. Tripp	See Submission 446.
542	S. Hayward	See Submission 446.
543	A. & G. Syddall	See Submission 446.
544	T. Graham	See Submission 446.
545	A. Smaill	See Submission 446.
546	C. McCabe	See Submission 446.
547	C. Tucker	See Submission 446.
548	B. Kelly	See Submission 446.
549	M. Dodd	See Submission 446.
550	J. Malloch	See Submission 446.
551	J. & R. Fielder	See Submission 446.
552	E. Harrall	See Submission 446.
553	J. Forward	See Submission 446.
554	G. Beaven	See Submission 446.
555	J. Low	See Submission 446.
556	A. Kennedy	See Submission 446.
557	B. Hayden	See Submission 446.
558	L. Clouston	See Submission 446.
559	R. Smith	See Submission 446.
560	G. Meek	See Submission 446.

561	G. Gerrand	See Submission 446.
562	R. Cummings	See Submission 446.
564	R. Fahey	See Submission 446.
565	G. Happer	See Submission 446.
566	K. Friby	See Submission 446.
567	I. Hunter	See Submission 446.
568	A. Good	See Submission 446.
569	D. & L. Gill	See Submission 446.
570	E. Gray	See Submission 446.
571	M. Collins	See Submission 446.
572	M. Knox	See Submission 446.
573	J. Hampton	See Submission 446.
574	J. Orchard	See Submission 446.
575	J. Cormack	See Submission 446.
576	W. MacLeod	See Submission 446.
577	M. McKeown	See Submission 446.
578	S. Withers	See Submission 446.
579	J. Edwards	See Submission 446.
580	D. Anker	See Submission 446.
581	M. Stewart	See Submission 446.
582	O. & L. Metzger	See Submission 446.
583	R. McDonald	See Submission 446.
584	H. Sharkey & B. Wilson	See Submission 446.
585	J. & D. Abrey	See Submission 446.
586	R. N. & P. H. Parker	See Submission 446.

587	M. Woodham	See Submission 446.
588	D. Cook	See Submission 446.
589	L. Garrett	See Submission 446.
590	W. Burrows	See Submission 446.
591	P. Burrows	See Submission 446.
592	I. Scott	See Submission 446.
593	L. Mayne	See Submission 446.
594	P. Pilcher	See Submission 446.
595	T. Tzouveleki	See Submission 446.
596	K. McEntee	See Submission 446.
597	P. Gosden	See Submission 446.
598	R. Kennedy	See Submission 446.
599	S. Natapu	See Submission 446.
600	J. L. Klenner	See Submission 446.
601	M. Harland	See Submission 446.
602	F. Jefferies	See Submission 446.
603	R. McCullough	See Submission 446.
604	C. Groube	See Submission 446.
605	G. Farr	See Submission 446.
606	W. Stewart	See Submission 446.
607	D. Desmond	See Submission 446.
608	A. Klenner	See Submission 446.
609	C. Pascoe	See Submission 446.
610	H. Pascoe	See Submission 446.
611	D. & N. Colenso	See Submission 446.

612	T. White	See Submission 446.
613	M. Denholm	See Submission 446.
614	M. Sutton	See Submission 446.
615	D. Perham	See Submission 446.
616	K. Craik	See Submission 446.
617	M. Molloy	See Submission 446.
618	B. A. Molloy	See Submission 446.
619	J. & K. Stephenson	See Submission 446.
620	N. Kerr	See Submission 446.
621	D. Williamson	See Submission 446.
622	Mr & Mrs B. Rohleder	See Submission 446.
623	M. Hooker	See Submission 446.
624	W. Hay	See Submission 446.
625	N. Hunt	See Submission 446.
626	A. Smith	See Submission 446.
627	K. Legat	See Submission 446.
628	S. Schwabe	See Submission 446.
629	E. Bray	See Submission 446.
630	I. Coker	See Submission 446.
631	T. Milne	See Submission 446.
632	J. Tunnicliff	See Submission 446.
633	M. Tunnicliff	See Submission 446.
634	K. Fox	See Submission 446.
635	J. Wilson	See Submission 446.
636	B. Henley	See Submission 446.

637	R. Nairn	See Submission 446.
638	J. Sinclair	See Submission 446.
639	R. Coker	See Submission 446.
640	K. Ward	See Submission 446.
641	K. Riley	See Submission 446.
642	M. Owens	See Submission 446.
643	M. Gray	See Submission 446.
644	R. Fenton	See Submission 446.
645	P. Jones	See Submission 446.
646	L. & L. Hibbard	See Submission 446.
647	A. Robertson	See Submission 446.
648	J. Mitchell	See Submission 446.
649	W. Tooth	See Submission 446.
650	D. Fox	See Submission 446.
651	D. Ansell	See Submission 446.
652	B. & J. G. Tai	See Submission 446.
653	R. Langley	See Submission 446.
654	D. Green	See Submission 446.
655	S. Dickson-Yeoman	See Submission 446.
656	V. Moorfield	See Submission 446.
657	E. R. & H. E. Hignett	See Submission 446.
658	J. & A. Wilson	See Submission 446.
659	G. Howden	See Submission 446.
660	S. L. & R. A. Gieseler	See Submission 446.
661	M. Wilson	See Submission 446.

662	R. Gunn	See Submission 446.
663	G. Inder	See Submission 446.
664	G. Jones	See Submission 446.
665	C. Wyatt	See Submission 446.
666	P. J. Fairbairn	See Submission 446.
667	S. Kerr	See Submission 446.
668	R. Black	See Submission 446.
669	D. Marsh	See Submission 446.
670	A. Schubert	See Submission 446.
671	A. Hobbs	See Submission 446.
672	J. Taylor	See Submission 446.
673	J. Haggitt	See Submission 446.
674	L. McKee	See Submission 446.
675	P. Harding	See Submission 446.
676	R. Charles	See Submission 446.
677	J. Smith	See Submission 446.
678	E. McNeice	See Submission 446.
679	A. & A. Smith	See Submission 446.
680	M. Mitchell	See Submission 446.
681	A. Oldham	See Submission 446.
682	B. & B. Morgan	See Submission 446.
683	J. Furneaux	See Submission 446.
684	L. Ashby	See Submission 446.
685	C. Moss	See Submission 446.
686	P. Holmes	See Submission 446.

687	R. & B. Bennett	See Submission 446.
688	J. Fisher	See Submission 446.
689	J. Turnbull	See Submission 446.
690	B. Newton	See Submission 446.
691	B. Donaldson	See Submission 446.
692	S. Bycroft	See Submission 446.
693	G. Mitchell	See Submission 446.
694	H. Wilkinson	See Submission 446.
695	N. Cogle	See Submission 446.
696	N. & I. Rankin	See Submission 446.
697	E. & J. Carbines	See Submission 446.
698	M. J. & V. E. Amer	See Submission 446.
699	G. Tyler-Smith	See Submission 446.
700	D. Kangi-Patterson	See Submission 446.
701	C. & S. Rutherford	See Submission 446.
702	H. Moore	See Submission 446.
703	A. & D. Hunt	See Submission 446.
704	A. Low	See Submission 446.
705	J. Gordon	See Submission 446.
706	T. Varga	See Submission 446.
707	J. & G. Barberel	See Submission 446.
708	N. & K. Williams	See Submission 446.
709	N. Hunt	See Submission 446.
710	Mr & Mrs B. Mitchell	See Submission 446.
711	W. Newman	See Submission 446.

712	G Hockham	See Submission 446.
713	H. Brand	See Submission 446.
714	A. Baas	See Submission 446.
715	S. & P. Wilson	See Submission 446.
716	B. Allan	See Submission 446.
717	M. Moir	See Submission 446.
718	B. & S. Owen	See Submission 446.
719	F. Lyster	See Submission 446.
720	C. & B. Dobie	See Submission 446.
721	F. Hadley	See Submission 446.
722	V. Meads	See Submission 446.
723	D. Boyd	See Submission 446.
724	R. Inwood	See Submission 446.
725	L. Papps	See Submission 446.
726	C. Ouwerkerk	See Submission 446.
727	P. van Duinen	See Submission 446.
728	L. & V. Cranstoun	See Submission 446.
729	W. Siddall	See Submission 446.
730	J. Williams	See Submission 446.
731	A. Bruce	See Submission 446.
732	D. Proctor	See Submission 446.
733	J. & F. Lumsden	See Submission 446.
734	J. Knight	See Submission 446.
735	J. McKay	See Submission 446.
736	J. & I. Taylor	See Submission 446.

737	M. Kinley	See Submission 446.
738	D. Craig	See Submission 446.
739	K. & C. McMillan	See Submission 446.
740	R. Butler	See Submission 446.
741	P. Dalmau	See Submission 446.
742	J. Ellis	See Submission 446.
743	J. Bull	See Submission 446.
744	M. Desmond	See Submission 446.
745	R. Biggs	See Submission 446.
746	W. Coakes	See Submission 446.
747	W. Mills	See Submission 446.
748	A. Bloomer	See Submission 446.
749	C. Pullman	See Submission 446.
750	M. Winchester	See Submission 446.
751	C. Harrison	See Submission 446.
752	A. Williamson	See Submission 446.
753	J. Swift	See Submission 446.
754	G. Rathgen	See Submission 446.
755	W. Thiele	See Submission 446.
756	J. Mackenzie	See Submission 446.
757	R. Chisholm	See Submission 446.
758	C. Frost	See Submission 446.
759	J. Miller	See Submission 446.
760	C. Flanagan	See Submission 446.
762	R Pilgram	See Submission 446.

763	R Gibson	See Submission 446.
764	J Stuthridge	See Submission 446.
765	J. Gallagher	See Submission 446.
766	T. Curtin	See Submission 446.
767	B. Palmer	See Submission 446.
768	D. Brocherie	See Submission 446.
769	S. Grbic	See Submission 446.
770	J. Gartly	See Submission 446.
771	R. & J. Glading	See Submission 446.
772	A. Erickson	See Submission 446.
773	W. Carter	See Submission 446.
774	G. Stewart	See Submission 446.
775	T. Brookes	See Submission 446.
776	N. Fry	See Submission 446.
777	J. Stevens	See Submission 446.
778	E. Park	See Submission 446.
779	E. Penwill	See Submission 446.
780	S. Clark	See Submission 446.
781	M. Bridgman	See Submission 446.
782	I. Seaton	See Submission 446.
783	G. Fisher	See Submission 446.
784	J. Dollan	See Submission 446.
785	M. Hall	See Submission 446.
786	T. Stanley	See Submission 446.
787	M. Elliot	See Submission 446.

788	R. Dirkze	See Submission 446.
789	J. Small	See Submission 446.
790	B. Newburgh	See Submission 446.
791	S. Clement	See Submission 446.
792	C. & G. Scott	See Submission 446.
793	G. Beadan	See Submission 446.
794	T. & V. Mehrtens	See Submission 446.
795	A. Cotterell	See Submission 446.
796	G. Cookson	See Submission 446.
797	G. Sumbly	See Submission 446.
798	D. Huggins	See Submission 446.
799	J. Mundy	See Submission 446.
800	C. & S. Lewthwaite	See Submission 446.
801	A. Bras	See Submission 446.
802	M. Henderson	See Submission 446.
803	K. Harris	See Submission 446.
804	K. McNaught	See Submission 446.
805	I. Nicholson	See Submission 446.
806	D. Palmer	See Submission 446.
807	L. Smith	See Submission 446.
808	B. White	See Submission 446.
809	D. Cameron	See Submission 446.
810	M. Gillespie	See Submission 446.
811	M. McKay	See Submission 446.
812	A. Coles	See Submission 446.

813	W. Smith	See Submission 446.
814	Mr & Mrs B. Hutton	See Submission 446.
815	J. de Wit	See Submission 446.
816	G. Rasmussen	See Submission 446.
817	J. Bill	See Submission 446.
818	B. & G. Reynolds	See Submission 446.
819	K. Watson	See Submission 446.
820	A. Powell	See Submission 446.
821	A. Marshall	See Submission 446.
822	B. Brunton	See Submission 446.
823	B. Jackson	See Submission 446.
824	F. Tobeck	See Submission 446.
825	A. Deans	See Submission 446.
826	J. West	See Submission 446.
827	P. Aylon	See Submission 446.
828	H. Ross	See Submission 446.
829	C. E. Waller	See Submission 446.
830	F. Wright	See Submission 446.
831	A. Williams	See Submission 446.
832	G. Robson	See Submission 446.
833	N. Robson	See Submission 446.
834	R. Wilkins	See Submission 446.
835	R. & S. Simson	See Submission 446.
836	M. E. Robertson	See Submission 446.
837	L. Turpin	See Submission 446.

838	B. Islip	See Submission 446.
839	M. Braggins	See Submission 446.
840	W. Hogwood	See Submission 446.
841	B. Bell	See Submission 446.
842	B. Stead	See Submission 446.
843	M. Frazer	See Submission 446.
844	D. Frazer	See Submission 446.
845	W. Leadbetter	See Submission 446.
846	B. James	See Submission 446.
847	A. Mitchell	See Submission 446.
848	P. & M. Maskill	See Submission 446.
858	R. A. Olds	Provide a financial incentive to allow the installation of new generation wood burners in place of open fires and existing older wood burner technology.
859	M. Roberts	See Submission 858..
860	A. Stephens	See Submission 858.
861	J. Payne	See Submission 858.
862	A. Taylor	See Submission 858.
863	R. Taylor	See Submission 858.
864	C. Price	See Submission 858.
865	P. Graham	See Submission 858.
866	D. Taylor	See Submission 858.
867	J. Harris	See Submission 858.
868	L. Price	See Submission 858.
869	E. Ellis	Provide a financial incentive to allow the installation of new generation wood burners in place of open fires and existing older wood burner technology.

870	A. Chandler	See Sub 869.
871	J. Herns	See Sub 869.
872	J. Quigley	See Sub 869.
873	D. Grenfell	See Sub 869.
874	R. Sherlock	See Sub 869.
875	A. Antill	See Sub 869.
876	B. Evans	See Sub 869.
877	P. Dudson	Provide a financial incentive to allow the installation of new generation wood burners in place of open fires and existing older wood burner technology.
880	G. Jeune	Provide a financial incentive to allow the installation of new generation wood burners in place of open fires and existing older wood burner technology.
881	M. Van Den Berg & D. Hopper	Provide a financial incentive to allow the installation of new generation wood burners in place of open fires and existing older wood burner technology.
885	J. Halkett	See Submission 858.
907	P. L. Tilley	Provide financial assistance to those on low income and benefits to buy gas or electric heating.
909	P. Moller	Provide subsidised electric heaters for people who are in financial difficulties.
910	M. Edwards	See Sub 446.
911	D. McMEnamin	See Sub 446.
912	R. Wild	See Submission 913.
913	M. Seelen	Clarification was sought from the submitter regarding the coupon Submission, but no response was received. It is believed that the Submission refers to Policy AQL 15 (b)(i): provide a financial incentive to allow the installation of new generation woodburners in place of open fires and existing older wood burning technology.
914	G. L. & P. J. Jennison	See Submission 913.

915	D. Chambers	See Submission 913.
916	C. Gibson	See Submission 913.
917	D. Clark	See Submission 913.
918	M. Coker	See Submission 446.
919	M. Blake	See Submission 913.
920	S. Burt	See Submission 913.
921	A. Thian	See Submission 913.
922	W. Cochrane	See Submission 913.
923	G. Argyle	See Submission 913.
924	J. Cochrane	See Submission 913.
925	J. Brown	See Submission 913.
926	L. Pander	See Submission 913.
927	N. Bates	See Submission 913.
928	M. Kain	See Submission 913.
929	A. Brittan	See Submission 913.
930	J., W., M. Portis & S. Beattie	See Submission 913.
931	A. & E. McClure	See Submission 913.
932	M. & J. Costigan	See Submission 913.
933	G. Stewart	See Submission 913.
934	V. Adams	See Submission 913.
935	D. Boyd	See Submission 913.
936	J. Milne	See Submission 913.
937	A. & I. Smith	See Submission 913.
938	N. Cameron	See Submission 913.
939	A. & Y. Crook	See Submission 913.

940	M. Tebay	See Submission 913.
941	P. Eagle	See Submission 913.
942	L. J. May	See Submission 913.
943	A. & L. Reid	See Submission 913.
944	M. Foord	See Submission 913.
945	C. & G. Scott	See Submission 913.
946	R. Satterthwaite	See Submission 913.
947	M. Lovell-Smith	See Submission 913.
948	I. C. & M. J. Holdem	See Submission 913.
949	J. Sandes	See Submission 913.
950	F. & P. Baker	See Submission 913.
951	T. Harvey	See Submission 913.
952	P. Marriott	See Submission 913.
953	K. Peeti & R. Burgess	See Submission 913.
954	K. Murdoch	See Submission 913.
955	I. Hicks	See Submission 913.
956	T. Murdoch	See Submission 913.
957	A. Schrafft	See Submission 913.
958	P. J. Biddick	See Submission 913.
959	R. Chambers	See Submission 913.
960	R. Brears	See Submission 913.
961	N. Duffey	See Submission 913.
962	S. Fairmaid	See Submission 913.
963	N. Young	See Submission 913.
964	W. Hannafin & J. Donaldson	See Submission 913.

965	C. Lineham	See Submission 913.
966	M. Newton & J. Kelcher	See Submission 913.
967	D. Corbett	See Submission 913.
968	R. Hartley	See Submission 913.
969	M. & S. Jones	See Submission 913.
970	A. Malcolm	See Submission 913.
971	J. Malcolm	See Submission 913.
972	B. Lewis	See Submission 913.
973	G. Rutherford	See Submission 913.
974	P. Scott	See Submission 913.
975	I. McEachen	See Submission 913.
976	B. Leopold	See Submission 913.
977	D. & B. Mitchell	See Submission 913.
978	D. & J. Lavender	See Submission 913.
979	D. Jarratt	See Submission 913.
980	M. S. Ryan	See Submission 913.
981	P. Millward	See Submission 913.
982	P. Tulisi	See Submission 913.
983	J. Sole	See Submission 913.
984	S. & M. Hackwell	See Submission 913.
985	M. Delamare	See Submission 913.
986	J. Ellis	See Submission 913.
987	T. Smith	See Submission 913.
988	E. Byrne	See Submission 913.
989	C. M. Wilson	See Submission 913.

990	P. Paterson	See Submission 913.
991	I. & R. Dickie	See Submission 913.
992	P. & G. Jones	See Submission 913.
993	C. Quartly	See Submission 913.
994	Mr & Mrs Hurcomb	See Submission 913.
995	J. Ashley	See Submission 913.
996	P. Gazzard	See Submission 913.
997	H. Paul	See Submission 913.
998	A. & S. McEwan	See Submission 913.
999	L. & L. Money	See Submission 913.
1000	J. & R. MacKenzie	See Submission 913.
1001	E. Hay	See Submission 913.
1002	S. Dickey	See Submission 913.
1003	M. Rickerby	See Submission 913.
1004	M. Beekhuis	See Submission 913.
1005	R. & R. Woods	See Submission 913.
1006	D. Sheppard	See Submission 913.
1007	C. Shaw	See Submission 913.
1008	N. & C. Cross	See Submission 913.
1009	K. Waaka	See Submission 913.
1010	D. Inglis	See Submission 913.
1011	S. & S. Batey	See Submission 913.
1012	P. Martis	See Submission 913.
1013	M. Garnett	See Submission 913.
1014	E. & G. Wright	See Submission 913.

1015	D. Mannix	See Submission 913.
1016	P. Morgan	See Submission 913.
1017	M. Burke	See Submission 913.
1018	G. & A. Hutcheon	See Submission 913.
1019	R. & M. Dickison	See Submission 913.
1020	A. Phillips	See Submission 913.
1021	B. & M. Sloper	See Submission 913.
1022	A. Columbus	See Submission 913.
1023	L. Payne	See Submission 913.
1024	M. Morrison	See Submission 913.
1025	P. & C. Wood	See Submission 913.
1026	L. Blakemore	See Submission 913.
1027	T. Wilkins	See Submission 913.
1028	S. Jelley	See Submission 913.
1029	M. Cheshire	See Submission 913.
1030	D. Workman	See Submission 913.
1031	P.T. Allen	See Submission 913.
1032	L. & C. Fitzgerald	See Submission 913.
1033	M. Terrell	See Submission 913.
1034	M. V. Smith	See Submission 913.
1035	D. Hunt	See Submission 913.
1036	J. Tyree	See Submission 913.
1037	M. Henderson	See Submission 913.
1038	J. Butler	See Submission 913.
1039	J. & B. Heathcote	See Submission 913.

1040	P. Simeon	See Submission 913.
1041	G. Cook	See Submission 913.
1042	L. Brice	See Submission 913.
1043	S. Dromgoole	See Submission 913.
1044	J. & M. Waters	See Submission 913.
1045	L. & F. Wilton	See Submission 913.
1046	S. Rayner	See Submission 913.
1047	Mr & Mrs J. M. H. Davie	See Submission 913.
1048	S. Trayling	See Submission 913.
1049	S. T. & R. Page	See Submission 913.
1050	M. Narbey	See Submission 913.
1051	F. Woodham	See Submission 913.
1052	J. & E. Ross	See Submission 913.
1053	C. & S. Crowther	See Submission 913.
1054	I. & A. W. Dowell	See Submission 913.
1055	G. Myers	See Submission 913.
1056	J. M. & I. F. Jackson	See Submission 913.
1057	M. Steven	See Submission 913.
1058	P. Skey	See Submission 913.
1059	K. Thompson	See Submission 913.
1060	T. Roberts	See Submission 913.
1061	L. Brears	See Submission 913.
1062	M. Rua	See Submission 913.
1063	W. Buckland	See Submission 913.
1064	C. Webb	See Submission 913.

1065	G. Norrie	See Submission 913.
1066	L. Green	See Submission 913.
1067	D. Addison	See Submission 913.
1068	G. & J. Secker	See Submission 913.
1069	E. M. Willis	See Submission 913.
1070	S. Gould	See Submission 913.
1071	M. Dixon	See Submission 913.
1072	J. Murray	See Submission 913.
1073	L. Williams	See Submission 913.
1074	B. D. Crisp	See Submission 913.
1075	P. Wauchop	See Submission 913.
1076	R. Philpott	See Submission 913.
1077	H. L. W. Cox	See Submission 913.
1078	R. F. Perry	See Submission 913.
1079	R. & R. McConchie	See Submission 913.
1080	S. Oberg	See Submission 913.
1081	C. Stevenson	See Submission 913.
1082	R. Jones	See Submission 913.
1083	R. Radburnd	See Submission 913.
1084	G. Lee	See Submission 913.
1085	L. Lennon	See Submission 913.
1086	Mr & Mrs Ferguson	See Submission 913.
1087	K. Standage	See Submission 913.
1088	J. Cooper	See Submission 913.
1089	A. & H. Grant	See Submission 913.

1090	J. Mill	See Submission 913.
1091	S. Manning	See Submission 913.
1092	W. Curtain	See Submission 913.
1093	J. Ives	See Submission 913.
1094	R. & K. Smith	See Submission 913.
1095	D. McLean	See Submission 913.
1096	M. James	See Submission 913.
1097	D. Hay	See Submission 913.
1098	J. Adams	See Submission 913.
1099	P. & P. Smart	See Submission 913.
1100	B. Murray	See Submission 913.
1101	N. Clark	See Submission 913.
1102	J. Lawrence	See Submission 913.
1103	M. Brown	See Submission 913.
1104	J. Saunders	See Submission 913.
1105	R Scott	See Submission 913.
1106	N. Greig	See Submission 913.
1107	N. Grace	See Submission 913.
1108	A. Petrie	See Submission 913.
1109	R. McCrone	See Submission 913.
1110	A. Burke	See Submission 913.
1111	L. Coupland	See Submission 913.
1112	L. Jones	See Submission 913.
1113	P. Mackay	See Submission 913.
1114	A. Hirst	See Submission 913.

1115	C. Donald	See Submission 913.
1116	D. Reid	See Submission 913.
1117	G. Scott	See Submission 913.
1118	P. McLean	See Submission 913.
1119	N. Brown	See Submission 913.
1120	J. W. & J. R. Bethell	See Submission 913.
1121	P. White	See Submission 913.
1122	G. Robinson	See Submission 913.
1123	G. & R. Bettridge	See Submission 913.
1124	S. Robinson	See Submission 913.
1125	D. Brook	See Submission 913.
1126	J. Brook	See Submission 913.
1127	J. Goldsmith	See Submission 913.
1128	K. Ellis	See Submission 913.
1129	T. Boyles	See Submission 913.
1130	J. Danko	See Submission 913.
1131	J. & D. Harker	See Submission 913.
1132	J. Commons	See Submission 913.
1133	M. & J. Saxton	See Submission 913.
1135	Y. Attrill	See Submission 913.
1136	C. Harding	See Submission 913.
1137	E. Wadsworth	See Submission 913.
1138	G. Black	See Submission 913.
1139	L. Giddens	See Submission 913.
1140	N. Hurring	See Submission 913.

1141	G. & . Dickson	See Submission 913.
1142	R. Bruning	See Submission 913.
1143	L. Mottram	See Submission 913.
1144	G. Trost	See Submission 913.
1145	P. L. & M. P. Cropp	See Submission 913.
1146	B. & K. Penwell	See Submission 913.
1147	A. Hill	See Submission 913.
1148	R. Rowe	See Submission 913.
1149	L. Mitchell	See Submission 913.
1150	F. Wakefield	See Submission 913.
1151	K. Lowe	See Submission 913.
1152	H. Smith	See Submission 913.
1153	P. Mullions	See Submission 913.
1154	J. & R. Dutkiewicz	See Submission 913.
1155	A. Stenning	See Submission 913.
1156	G. W. & G. B. Comber	See Submission 913.
1157	A. Lythgoe	See Submission 913.
1158	E. Martin-Smith	See Submission 913.
1159	E. Annand	See Submission 913.
1160	J. Farrin	See Submission 913.
1161	R. Cox	See Submission 913.
1162	S. Bourke	See Submission 913.
1163	J. Schoolderman	See Submission 913.
1164	N. Gunn & A. Beaumont	See Submission 913.
1165	S. Bradbury-Moore	See Submission 913.

1166	I. May	See Submission 913.
1167	L. Smith	See Submission 913.
1168	H. Walshaw	See Submission 913.
1169	A. Halligan	See Submission 913.
1170	W. Donnell	See Submission 913.
1171	L. de Jonge	See Submission 913.
1172	J. W. & C. J. Spafford	See Submission 913.
1173	E. & I. Shaw	See Submission 913.
1174	G. & N. Little	See Submission 913.
1175	N. Quartly	See Submission 913.
1176	S. Paterson	See Submission 913.
1177	R. Regan	See Submission 913.
1178	G. & K. West	See Submission 913.
1179	N. Smith	See Submission 913.
1180	P. Taylor	See Submission 913.
1181	L. & B. F. Garland	See Submission 913.
1182	E. Coates	See Submission 913.
1183	J. Harvey	See Submission 913.
1184	H. Tolchard	See Submission 913.
1185	D. Taylor	See Submission 913.
1186	M. McCrea & H. Groggin	See Submission 913.
1187	P. Jones	See Submission 913.
1188	J. Greenslade	See Submission 913.
1189	T. Folter	See Submission 913.
1190	L. Palmer	See Submission 913.

1191	E. Henley	See Submission 913.
1192	A. Purton	See Submission 913.
1193	G. Donald	See Submission 913.
1194	G. & V. Stockdale	See Submission 913.
1195	R. Smith	See Submission 913.
1196	M. Teague	See Submission 913.
1197	C. Cormack	See Submission 913.
1198	J. Sharp	See Submission 913.
1199	P. & S. Herring	See Submission 913.
1200	M. Musson	See Submission 913.
1201	K. Petrie	See Submission 913.
1202	H. Chapman	See Submission 913.
1203	J. Maples	See Submission 913.
1204	D. Lyons	See Submission 913.
1205	J. Horman	See Submission 913.
1206	G. Galt	See Submission 913.
1207	D. Cawley	See Submission 913.
1208	J. Mann & A. Robinson	See Submission 913.
1209	B. Garlick	See Submission 913.
1210	W. Hobbs	See Submission 913.
1211	E. Stanley-Boden	See Submission 913.
1212	A. Abel	See Submission 913.
1213	J. & J. South	See Submission 913.
1214	M., J. & J. Kubiak	See Submission 913.
1215	D. Brading	See Submission 913.

1216	M. & R. Joseph	See Submission 913.
1217	Mrs Hood and Family	See Submission 913.
1218	E. Wall	See Submission 913.
1219	S. Wade	See Submission 913.
1220	V. & B. Garlick	See Submission 913.
1221	B. Shanks	See Submission 913.
1222	H. Woods	See Submission 913.
1223	E. R. & S. F. Carter	See Submission 913.
1224	J. & S. Lewthwaite	See Submission 913.
1225	K. Pere	See Submission 913.
1226	P. Robins	See Submission 913.
1227	E. Rivers	See Submission 913.
1228	M. Timu	See Submission 913.
1229	A. & J. Wilson	See Submission 913.
1230	C. Edgar	See Submission 913.
1231	L. Maxwell-McGinn	See Submission 913.
1232	D. Austin	See Submission 913.
1233	J. Antill	See Submission 913.
1234	R. Harland	See Submission 913.
1235	A. Sullivan	See Submission 913.
1236	G. Ashby	See Submission 913.
1237	A. Bogren	See Submission 913.
1238	S. Creegan	See Submission 913.
1239	K. Oswin	See Submission 913.
1240	C. Strang	See Submission 913.

1241	D. Stuart	See Submission 913.
1242	J. Stewart	See Submission 913.
1243	J. Stevens	See Submission 913.
1244	I. Stevens	See Submission 913.
1245	G. Landstra	See Submission 913.
1246	M. Allen	See Submission 913.
1247	T. Smith	See Submission 913.
1248	K. Tohill	See Submission 913.
1249	W. Porter	See Submission 913.
1250	S. Rankin	See Submission 913.
1251	G. Redfern	See Submission 913.
1252	S. Pitama	See Submission 913.
1253	P. Grant	See Submission 913.
1254	M. Wilcock	See Submission 913.
1255	A. Leverton	See Submission 913.
1256	C. Wilson	See Submission 913.
1257	A. Wilson	See Submission 913.
1258	I. Murray	See Submission 913.
1259	T. Taitolo	See Submission 913.
1260	F. Fitzgerald	See Submission 913.
1261	E. Barnes	See Submission 913.
1262	K. Glass	See Submission 913.
1263	J. Raxworthy	See Submission 913.
1264	J. Harris	See Submission 913.
1265	P. Snelling	See Submission 913.

1266	B. Conway	See Submission 913.
1267	T. Scott	See Submission 913.
1268	C. Cooper	See Submission 913.
1269	L. Davison	See Submission 913.
1270	P. Bush	See Submission 913.
1271	K. Saunders	See Submission 913.
1272	S. Newman	See Submission 913.
1273	R. Peters	See Submission 913.
1274	M. Cox	See Submission 913.
1275	K. Bramwell	See Submission 913.
1276	R. Dunstan	See Submission 913.
1277	A. Johnson	See Submission 913.
1278	L. Allan	See Submission 913.
1279	J. Carrington	See Submission 913.
1280	H. Symes	See Submission 913.
1281	R. Cermak	See Submission 913.
1282	J. Taylor	See Submission 913.
1283	I. Barr	See Submission 913.
1284	D. M. S. Robertson	See Submission 913.
1285	R. Strickland	See Submission 913.
1286	W. Green	See Submission 913.
1287	M. Hawkins	See Submission 913.
1288	C. Tangelder	See Submission 913.
1289	P. Blackmore	See Submission 913.
1290	S. Austing	See Submission 913.

1291	S. McKelvey	See Submission 913.
1292	E. Fitzgerald	See Submission 913.
1293	M. Grimshaw	See Submission 913.
1294	M. Turner	See Submission 913.
1295	S. McKenzie	See Submission 913.
1296	J. Schofield	See Submission 913.
1297	C. Walker	See Submission 913.
1298	M. Chandler	See Submission 913.
1299	N. Varcoe	See Submission 913.
1300	E. Corbett	See Submission 913.
1301	D. & V. Hamilton	See Submission 913.
1302	K. Millist	See Submission 913.
1303	D. Salthouse	See Submission 913.
1304	P. T Morriss	See Submission 913.
1305	I. Joseph	See Submission 913.
1306	P. Evans	See Submission 913.
1307	B. O'Keefe	See Submission 913.
1308	A. Millar	See Submission 913.
1309	J. Stewart	See Submission 913.
1310	H. Downs	See Submission 913.
1311	K. Wooles	See Submission 913.
1312	M. Clark	See Submission 913.
1313	N. Bensberg	See Submission 913.
1314	S. Hooper	See Submission 913.
1315	J. Buscot	See Submission 913.

1316	D. Caldwell	See Submission 913.
1317	J. Woodfield	See Submission 913.
1318	K. Hales	See Submission 913.
1319	S. Daniels	See Submission 913.
1320	G. Elmey	See Submission 913.
1321	G. Church	See Submission 913.
1322	S. & L. Williams	See Submission 913.
1323	J. Somerville	See Submission 913.
1324	L. Smith	See Submission 913.
1325	F. Contreras	See Submission 913.
1326	S. Wain	See Submission 913.
1327	C. Hubbard	See Submission 913.
1328	J. Millward	See Submission 913.
1329	R. Austin	See Submission 913.
1330	L. Loader	See Submission 913.
1331	J. Thomson	See Submission 913.
1332	G. Freer	See Submission 913.
1333	G. Gunn	See Submission 913.
1334	M. Freeman	See Submission 913.
1335	B. Bradbury	See Submission 913.
1336	D. Cooper	See Submission 913.
1337	D. Duggan	See Submission 913.
1338	C. Simmons	See Submission 913.
1339	W. Lee	See Submission 913.
1340	L. Goodrick	See Submission 913.

1341	C. Richards	See Submission 913.
1342	G. Rees	See Submission 913.
1343	B. Claydon	See Submission 913.
1344	C. Hortin	See Submission 913.
1345	J. Scott	See Submission 913.
1346	A. Martin	See Submission 913.
1347	L. Martini	See Submission 913.
1348	J. Laurie	See Submission 913.
1349	A. Morrison	See Submission 913.
1350	S. Fitzgibbon	See Submission 913.
1351	S. Wagenvoord	See Submission 913.
1352	M. Thomas	See Submission 913.
1353	W. Jackson	See Submission 913.
1354	H. Halliday	See Submission 913.
1355	C. Peddie	See Submission 913.
1356	J. Cooke	See Submission 913.
1357	G. McNicholl	See Submission 913.
1358	M. Brown	See Submission 913.
1359	D. Eathorne	See Submission 913.
1360	P. Bradbury	See Submission 913.
1361	K. Bradbury	See Submission 913.
1362	E. Wakelin	See Submission 913.
1363	D. McIntosh	See Submission 913.
1364	J. Wilson	See Submission 913.
1365	N. Abbott	See Submission 913.

1366	P. Wakelin	See Submission 913.
1367	E. Bennett	See Submission 913.
1368	L. Knight	See Submission 913.
1369	J. Freeth	See Submission 913.
1370	R. Hales	See Submission 913.
1371	W. Kegley	See Submission 913.
1372	A. Harper	See Submission 913.
1373	A. Williams	See Submission 913.
1374	K. Record	See Submission 913.
1375	D. Taylor	See Submission 913.
1376	S. Searle	See Submission 913.
1377	J. Swaine	See Submission 913.
1378	E. Mackay	See Submission 913.
1379	J. Schimanski	See Submission 913.
1380	R. Claydon	See Submission 913.
1381	T. Powis	See Submission 913.
1382	T. Arps	See Submission 913.
1383	J. Warmington	See Submission 913.
1384	J. Lloyd	See Submission 913.
1385	J. Martin	See Submission 913.
1386	K. Jenkins	See Submission 913.
1387	J. Carruthers	See Submission 913.
1388	N. Harrison	See Submission 913.
1389	G. Norton	See Submission 913.
1390	D. Shrimpton	See Submission 913.

1391	M. Turner	See Submission 913.
1392	M. Leigh	See Submission 913.
1393	D. Leigh	See Submission 913.
1394	T. Bowie	See Submission 913.
1395	F. King	See Submission 913.
1396	G. Robinson	See Submission 913.
1397	B. Stenning	See Submission 913.
1398	G. Mears	See Submission 913.
1399	N. Richards	See Submission 913.
1400	C. Thomas	See Submission 913.
1401	D. Hodge	See Submission 913.
1402	L. Liles	See Submission 913.
1403	H. Richards	See Submission 913.
1404	P. Price	See Submission 913.
1405	G. & C. Wilson	See Submission 913.
1406	G. Donaldson	See Submission 913.
1407	M. Edwards	See Submission 913.
1408	M. Cook	See Submission 913.
1409	P. Fairbairn	See Submission 913.
1410	D. Cootes	See Submission 913.
1411	G. Irving	See Submission 913.
1412	M. Edwards	See Submission 913.
1413	J. Edwards	See Submission 913.
1414	B. Pope	See Submission 913.
1415	I. Moncur	See Submission 913.

1416	B. Lennon	See Submission 913.
1417	G. Moncur	See Submission 913.
1418	M. Wood	See Submission 913.
1419	W. Donovan	See Submission 913.
1420	F. Crosbie	See Submission 913.
1421	M. Peirson	See Submission 913.
1422	M. Hill	See Submission 913.
1423	L. Subritzky	See Submission 913.
1424	B. Jones	See Submission 913.
1425	O. Smith	See Submission 913.
1426	G. Leigh	See Submission 913.
1427	N. Cook	See Submission 913.
1428	T. Bryant	See Submission 913.
1429	M. Cockburn	See Submission 913.
1430	M. Redock	See Submission 913.
1431	L. Preston	See Submission 913.
1432	K. Hewitt	See Submission 913.
1433	J. Mahia	See Submission 913.
1434	M. Graham	See Submission 913.
1435	A. Gillard	See Submission 913.
1436	J. Mahia	See Submission 913.
1437	R. Hewitt	See Submission 913.
1438	D. Mears	See Submission 913.
1439	J. & P. Paterson	See Submission 913.
1440	S. Morrissey	See Submission 913.

1441	J. Studholme	See Submission 913.
1442	R. Jeffcott	See Submission 913.
1443	B. Mitchell	See Submission 913.
1444	T. Blatchford	See Submission 913.
1445	B. P. J. Molloy	See Submission 913.
1446	B. Chambers	See Submission 913.
1447	J. Bell	See Submission 913.
1448	R. Delamore	See Submission 913.
1449	P. Mainwaring	See Submission 913.
1450	J. Paterson	See Submission 913.
1451	M. Ellery	See Submission 913.
1452	Name illegible	See Submission 913.
1453	J. Rowley	See Submission 913.
1454	S. Rowley	See Submission 913.
1455	P. Evans	See Submission 913.
1456	G. Evans	See Submission 913.
1458	J. Lindsay-Spaull	See Submission 913.
1459	N. Cook	See Submission 913.
1460	M. Maffey	See Submission 913.
1461	B. Fabian	See Submission 913.
1462	S. Fabian	See Submission 913.
1463	G. Kemp	See Submission 913.
1464	V. Mulgrew	See Submission 913.
1465	D. Neill	See Submission 913.
1467	G. Buist	See Submission 913.

1468	R. Penrose	See Submission 913.
1469	L. Aarts	See Submission 913.
1470	R. Kennedy	See Submission 913.
1471	K. Morrison	See Submission 913.
1472	C. Scott	See Submission 913.
1473	A. Koguchi	See Submission 913.
1474	J. Meltzer	See Submission 913.
1475	P. Minty	See Submission 913.
1476	J. Steele	See Submission 913.
1477	G. Lynn	See Submission 913.
1478	H. Jackson	See Submission 913.
1479	D. Hunt	See Submission 913.
1480	B. Stack	See Submission 913.
1481	P. Claxton	See Submission 913.
1482	G. Goulden	See Submission 913.
1483	S. Walker	See Submission 913.
1484	G. Roper	See Submission 913.
1485	A. Reid	See Submission 913.
1486	L. McCue	See Submission 913.
1487	J. Kidd	See Submission 913.
1488	C. Smith	See Submission 913.
1489	L. Howie	See Submission 913.
1490	P. Riley	See Submission 913.
1491	K. Elisora	See Submission 913.
1492	A. Sumies	See Submission 913.

1493	S. Coppen	See Submission 913.
1494	N. Behringer	See Submission 913.
1495	P. Tibble	See Submission 913.
1496	D. & K. Yeoman	See Submission 913.
1497	J. Hartley	See Submission 913.
1498	R. Sharma	See Submission 913.
1499	P. Ross	See Submission 913.
1500	D. Paton	See Submission 913.
1501	T. Clakson	See Submission 913.
1502	S. Wilson	See Submission 913.
1503	G. Smith	See Submission 913.
1504	N. Flux	See Submission 913.
1505	S. Prince	See Submission 913.
1506	P. Keats	See Submission 913.
1507	G. Wilson	See Submission 913.
1508	A. Jamies	See Submission 913.
1509	G. Morgan	See Submission 913.
1510	P. Aplin	See Submission 913.
1511	S. Page	See Submission 913.
1512	S. Byrch	See Submission 913.
1513	D. Jones	See Submission 913.
1514	B. Woolley	See Submission 913.
1515	A. Hazeldine	See Submission 913.
1516	N. Hamilton	See Submission 913.
1517	J. Hamilton	See Submission 913.

1518	P. Edmonds	See Submission 913.
1519	C. McKewen	See Submission 913.
1520	J. Tunnicliff	See Submission 913.
1521	E. Shears	See Submission 913.
1522	A. Heinisch	See Submission 913.
1523	S. Dawselt	See Submission 913.
1524	A. Wakelin	See Submission 913.
1525	J. E. Huston	See Submission 913.
1526	Y. Brown	See Submission 913.
1527	H. Lloyd	See Submission 913.
1528	M. Willis	See Submission 913.
1529	G. I. Stewart	See Submission 913.
1530	S. Browne	See Submission 913.
1532	C. Borland	See Submission 913.
1533	M. Crampton	See Submission 913.
1534	C. Fletcher	See Submission 913.
1535	W. Stone	See Submission 913.
1536	Mrs Sikaleti	See Submission 913.
1537	A. Martini	See Submission 913.
1538	R. Bradley	See Submission 913.
1539	W. Dick	See Submission 913.
1540	H. Redwood	See Submission 913.
1541	M. Knight	See Submission 913.
1542	S. Hathaway	See Submission 913.
1543	C. Lawn	See Submission 913.

1544	J. Cowey	See Submission 913.
1545	L. Kerr	See Submission 913.
1546	C. Leonard	See Submission 913.
1547	A. Beaumont	See Submission 913.
1548	G. Grenfell	See Submission 913.
1549	B. Dunlop	See Submission 913.
1550	S. Pope	See Submission 913.
1551	D. Hathaway	See Submission 913.
1552	G. Bullen	See Submission 913.
1553	L. Grant	See Submission 913.
1554	A. Thomas	See Submission 913.
1555	J. Wilson	See Submission 913.
1556	E. Proctor	See Submission 913.
1557	P. Tucker	See Submission 913.
1558	R. Steele	See Submission 913.
1559	I. Steele	See Submission 913.
1560	P. Creedon	See Submission 913.
1561	P. Creasey	See Submission 913.
1562	T. Sullivan	See Submission 913.
1563	C. Reed	See Submission 913.
1564	D. Palmer	See Submission 913.
1565	A. Lockley	See Submission 913.
1566	C. Catanach	See Submission 913.
1567	R. Jarvis	See Submission 913.
1568	J. Shillito	See Submission 913.

1569	N. Stackhouse	See Submission 913.
1570	J. Crockett	See Submission 913.
1571	M. Milne	See Submission 913.
1572	K. Merrett	See Submission 913.
1573	J. Listell	See Submission 913.
1574	A. Shearer	See Submission 913.
1575	S. Leigh	See Submission 913.
1576	A. Stone	See Submission 913.
1577	D. Whyte	See Submission 913.
1578	N. Elms	See Submission 913.
1579	P. Rae	See Submission 913.
1580	J. Tippett	See Submission 913.
1581	D. M. Bishop	See Submission 913.
1582	H. McKellow	See Submission 913.
1583	J. Odgers	See Submission 913.
1584	I. Robinson	See Submission 913.
1585	P. Knight	See Submission 913.
1586	R. Collins	See Submission 913.
1587	S. Jones	See Submission 913.
1588	M. O'Callaghan	See Submission 913.
1589	V. & M. Stick	See Submission 913.
1590	R. Karaitiana	See Submission 913.
1591	J. Oakley	See Submission 913.
1592	V. Lockyer	See Submission 913.
1593	D. Cooper	See Submission 913.

1594	A. Hurley	See Submission 913.
1595	N. Jacobs	See Submission 913.
1596	L. Pool	See Submission 913.
1597	C. Magon	See Submission 913.
1598	B. Ogilvie	See Submission 913.
1599	L. Coulter	See Submission 913.
1600	R. Williams	See Submission 913.
1601	S. Bradbury	See Submission 913.
1602	K. Hanright	See Submission 913.
1603	L. White	See Submission 913.
1604	J. Jump	See Submission 913.
1605	G. Sewell	See Submission 913.
1606	K. Gardner	See Submission 913.
1607	G. Rerit	See Submission 913.
1608	D. Smeekes	See Submission 913.
1609	M. Saville	See Submission 913.
1610	R. Tyson	See Submission 913.
1611	D. Kereopa	See Submission 913.
1612	B. Dunbar	See Submission 913.
1613	L. Donnelly	See Submission 913.
1614	D. St Claire	See Submission 913.
1615	J. Welsh	See Submission 913.
1616	E. Campbell	See Submission 913.
1617	G. Lynce	See Submission 913.
1618	J. Coville	See Submission 913.

1619	K. Field	See Submission 913.
1620	D. Lidgett	See Submission 913.
1621	G. Whelam	See Submission 913.
1622	C. Berridge	See Submission 913.
1623	J. Morrison	See Submission 913.
1624	H. Harding	See Submission 913.
1625	A. Harding	See Submission 913.
1626	L. Smith	See Submission 913.
1627	G. Mitchell	See Submission 913.
1628	J. McClennan	See Submission 913.
1629	J. Millar	See Submission 913.
1630	K. Thomson	See Submission 913.
1631	M. Sherwood	See Submission 913.
1632	A. Millar	See Submission 913.
1633	K. Kennedy	See Submission 913.
1634	J. Barrington	See Submission 913.
1635	C. Holmes	See Submission 913.
1636	Y. Thomas	See Submission 913.
1637	A. Reid	See Submission 913.
1638	J. Gorman	See Submission 913.
1639	C. Entwistle	See Submission 913.
1640	S. Versluis	See Submission 913.
1641	G. Lewis	See Submission 913.
1642	S. Lewis	See Submission 913.
1643	M. Lawsan	See Submission 913.

1644	J. Manning	See Submission 913.
1645	T. Russell	See Submission 913.
1646	K. Gregoriadis	See Submission 913.
1647	K. McDonald	See Submission 913.
1648	M. Armstrong	See Submission 913.
1649	Author unknown	See Submission 913.
1650	D. Harvey	See Submission 913.
1651	K. Graham	See Submission 913.
1652	R. Ellis	See Submission 913.
1653	V. Evans	See Submission 913.
1654	E. Bishop	See Submission 913.
1655	B. Woodrow	See Submission 913.
1656	G. Smart	See Submission 913.
1657	B. Clarke	See Submission 913.
1658	C. Hooker	See Submission 913.
1659	A. & E. Cook	See Submission 913.
1660	L. Hubert	See Submission 913.
1661	N. Machini	See Submission 913.
1662	R. Thain	See Submission 913.
1663	T. Lark	See Submission 913.
1664	F. Harris	See Submission 913.
1665	F. Maffey	See Submission 913.
1666	J. Hayward	See Submission 913.
1667	J. Harris	See Submission 913.
1668	A. Mori	See Submission 913.

1669	R. Evans	See Submission 913.
1670	R. Evans	See Submission 913.
1671	J. Brown	See Submission 913.
1672	P. O'Connell	See Submission 913.
1673	B. Bissell	See Submission 913.
1674	B. Hill	See Submission 913.
1675	S. Harvey	See Submission 913.
1676	A. Gardiner	See Submission 913.
1677	P. Berendt	See Submission 913.
1678	J. Rusbatch	See Submission 913.
1679	R. Clark	See Submission 913.
1680	M. Wielsma	See Submission 913.
1681	M. Peat	See Submission 913.
1682	K. & L. Hislop	See Submission 913.
1683	A. Stuart	See Submission 913.
1684	A. Dobson	See Submission 913.
1685	R. T. & C. M. Wade	See Submission 913.
1686	I. Lamb	See Submission 913.
1687	Mr & Mrs M. Head	See Submission 913.
1688	W. Stoddart	See Submission 913.
1689	H. Webb	See Submission 913.
1690	D. Lam	See Submission 913.
1691	R. Christensen	See Submission 913.
1692	M. Hore	See Submission 913.
1693	T. Baird	See Submission 913.

1694	G. Preston	See Submission 913.
1695	B. Osborne	See Submission 913.
1696	H. Harris	See Submission 913.
1697	H. Millar	See Submission 913.
1698	G. Pendrigh	See Submission 913.
1699	F. Wilson	See Submission 913.
1700	T. Hutching	See Submission 913.
1701	Mr & Mrs G. Tait	See Submission 913.
1702	G. Beaven	See Submission 913.
1703	W. Mills	See Submission 913.
1704	A. Duff	See Submission 913.
1705	G. Hunter	See Submission 913.
1706	S. Burke	See Submission 913.
1707	V. Dorreen	See Submission 913.
1708	J. Ferguson	See Submission 913.
1709	W. Nicholson	See Submission 913.
1710	G. Armstrong	See Submission 913.
1711	L. McIntyre	See Submission 913.
1712	A. Paynter	See Submission 913.
1713	D. Hughes	See Submission 913.
1714	J. Bowden	See Submission 913.
1715	K. Strangman	See Submission 913.
1716	M. Garth	See Submission 913.
1717	P. Gerard	See Submission 913.
1718	M. Turton	See Submission 913.

1719	A. Anar	See Submission 913.
1720	E. Tsui	See Submission 913.
1721	P. Parkyn	See Submission 913.
1722	M. Westwood	See Submission 913.
1723	M. Leathern	See Submission 913.
1724	L. Murray	See Submission 913.
1725	T. Haussman	See Submission 913.
1726	M. Westgarth	See Submission 913.
1727	M. McKay	See Submission 913.
1728	T. Lee	See Submission 913.
1729	K. Bjork	See Submission 913.
1730	M. Low	See Submission 913.
1731	D. Bates	See Submission 913.
1732	C. Williams	See Submission 913.
1733	D. Fouche	See Submission 913.
1734	S. Peden	See Submission 913.
1735	S. White	See Submission 913.
1736	R. Cleverley	See Submission 913.
1737	M. Hari	See Submission 913.
1738	M. Watts	See Submission 913.
1739	J. Cameron	See Submission 913.
1740	P. Verrall	See Submission 913.
1741	J. Goss	See Submission 913.
1742	T. Odgers	See Submission 913.
1743	C. Allan	See Submission 913.

1744	L. Ward	See Submission 913.
1745	P. Davison	See Submission 913.
1746	S. Reilly	See Submission 913.
1747	C. Harper	See Submission 913.
1748	D. Shaw	See Submission 913.
1749	A. Byron	See Submission 913.
1750	S. New	See Submission 913.
1751	B. Duff	See Submission 913.
1752	F. Wilson	See Submission 913.
1753	D. Lovell	See Submission 913.
1754	M. Chaza	See Submission 913.
1755	D. Helm	See Submission 913.
1756	A. Shiferan	See Submission 913.
1757	K. Leigh	See Submission 913.
1758	J. Millington	See Submission 913.
1759	F. Kennedy	See Submission 913.
1760	P. Griffin	See Submission 913.
1761	F. Bruton	See Submission 913.
1762	C. Ritchie	See Submission 913.
1763	M. Henry	See Submission 913.
1764	S. C. & W. K. Woods	See Submission 913.
1765	J. Searle	See Submission 913.
1766	D. Mansell	See Submission 913.
1767	J. Jamieson	See Submission 913.
1768	J. Bowman	See Submission 913.

1769	G. Bendall	See Submission 913.
1770	H. & V. Lambert	See Submission 913.
1771	G. Hay	See Submission 913.
1772	R. Stanbridger	See Submission 913.
1773	R. & C. Monds	See Submission 913.
1774	K. & S. Dunlop	See Submission 913.
1775	E. Fowler	See Submission 913.
1776	P. Jones	See Submission 913.
1777	M. Fleming	See Submission 913.
1778	R. Sutherland	See Submission 913.
1779	M. McVicar	See Submission 913.
1780	B. Pepperell	See Submission 913.
1781	A. Storer	See Submission 913.
1782	M. Cox	See Submission 913.
1783	J. Kyle	See Submission 913.
1784	Mr & Mrs G. Sibley	See Submission 913.
1785	M. Reynish	See Submission 913.
1786	T. te Hau	See Submission 913.
1787	T. Barclay	See Submission 913.
1788	A. Were	See Submission 913.
1789	B. Clement	See Submission 913.
1790	E. Sangaroonthong	See Submission 913.
1791	A. McDonald	See Submission 913.
1792	J. Body	See Submission 913.
1793	G. Bainbridge	See Submission 913.

1794	J. Bainbridge	See Submission 913.
1795	Mr & Mrs K. Fifield	See Submission 913.
1796	N. Buchan	See Submission 913.
1797	J. Sage	See Submission 913.
1798	L. & T. Williamson	See Submission 913.
1799	B. & J. Blowes	See Submission 913.
1800	M. Hyde	See Submission 913.
1801	J. Pearce	See Submission 913.
1802	S. & J. Johnson	See Submission 913.
1803	M. Maclennan	See Submission 913.
1804	A. Blackwood	See Submission 913.
1805	P. Jarratt	See Submission 913.
1806	D. Nelson	See Submission 913.
1807	Y. Wilkinson	See Submission 913.
1808	M. Grant	See Submission 913.
1809	D. Flanagan	See Submission 913.
1810	C. Pengully	See Submission 913.
1811	M. Williams	See Submission 913.
1812	J. Millar	See Submission 913.
1813	P. Brown	See Submission 913.
1814	F. Mullaly	See Submission 913.
1815	L. Mooar	See Submission 913.
1816	C. Graham	See Submission 913.
1817	W. Reeve	See Submission 913.
1818	R. Crosbie	See Submission 913.

1819	J. Robinson	See Submission 913.
1820	M. Nickless	See Submission 913.
1821	C. McKenzie	See Submission 913.
1822	G. O'Callaghan	See Submission 913.
1823	J & F Pettersen	See Submission 913.
1824	D. Tamaiparea	See Submission 913.
1825	B. Morrison	See Submission 913.
1826	L. Barr	See Submission 913.
1827	P. Rea	See Submission 913.
1828	C. Richardson	See Submission 913.
1829	T. Verity	See Submission 913.
1830	J. D. & D. B. O'Neil	See Submission 913.
1831	E. Wright	See Submission 913.
1832	Mr K. & Mrs H. Ormond	See Submission 913.
1833	D. Cammock	See Submission 913.
1834	I. Thomas	See Submission 913.
1835	B. Seaton	See Submission 913.
1836	L. Marley	See Submission 913.
1837	E. Barrest	See Submission 913.
1838	A. Phillips	See Submission 913.
1839	J. Dunford	See Submission 913.
1840	N. Horsham	See Submission 913.
1841	Mr & Mrs I. Cresswell	See Submission 913.
1842	D. Moore	See Submission 913.
1843	J. Payne	See Submission 913.

1844	G. Saunders	See Submission 913.
1845	M. & M. Norrell	See Submission 913.
1846	P. Goldsmith	See Submission 913.
1847	K. Northrop	See Submission 913.
1848	B. Simon	See Submission 913.
1849	R. Keenan	See Submission 913.
1850	Mr & Mrs N. Britt	See Submission 913.
1851	S. Mather	See Submission 913.
1852	D. Fenton	See Submission 913.
1853	C. McBeath	See Submission 913.
1854	D. McLeod	See Submission 913.
1855	G. Single	See Submission 913.
1856	H. Devereux	See Submission 913.
1857	V. Butler	See Submission 913.
1858	C. Adlam	See Submission 913.
1859	D. Connor	See Submission 913.
1860	E. Mallinson	See Submission 913.
1861	P. Burt	See Submission 913.
1862	A. Williamson	See Submission 913.
1863	M. Lepper	See Submission 913.
1864	A. Middleton	See Submission 913.
1865	R. Aitchison	See Submission 913.
1866	J. Vryenhoek	See Submission 913.
1867	P. Havelaar	See Submission 913.
1868	D. & P. Tobin	See Submission 913.

1869	E. Wilkes	See Submission 913.
1870	T. Scott	See Submission 913.
1871	MacGibbon Family	See Submission 913.
1872	T. Verstappen	See Submission 913.
1873	P. & H. Maynard	See Submission 913.
1874	S. Gilmour	See Submission 913.
1875	I. & L. Gillespie	See Submission 913.
1876	P. Standage	See Submission 913.
1877	J. & R. Glintmeyer	See Submission 913.
1879	R. Nunn	See Submission 913.
1880	J. Pizzey	See Submission 913.
1881	W. Marriner	See Submission 913.
1882	B. Graham	See Submission 913.
1883	D. & S. Moor	See Submission 913.
1884	B. Holliday	See Submission 913.
1885	A. & J. Glassey	See Submission 913.
1886	M. Malwell	See Submission 913.
1887	A. Riach	See Submission 913.
1888	G. Saundercock	See Submission 913.
1889	C. & R. Healey	See Submission 913.
1890	T. Keele	See Submission 913.
1891	Y. Watson	See Submission 913.
1892	J. Sutherland	See Submission 913.
1893	N. McKinnon	See Submission 913.
1894	J. McDonald	See Submission 913.

1895	T. O'Brien	See Submission 913.
1896	G. & N. Lintott	See Submission 913.
1897	B. O'Connor	See Submission 913.
1898	C. & J. Rea	See Submission 913.
1899	Dr R. Wilkinson	See Submission 913.
1900	H. McDonald	See Submission 913.
1901	D. Bately	See Submission 913.
1902	J. Eaton	See Submission 913.
1903	M. & T. Hussey	See Submission 913.
1904	J. Blackett	See Submission 913.
1905	P. Kissell	See Submission 913.
1906	M. Sinclair	See Submission 913.
1907	G. Latham	See Submission 913.
1908	D. Adams	See Submission 913.
1909	L. Osmer	See Submission 913.
1910	R. & P. Woodfield	See Submission 913.
1911	K. Samuel	See Submission 913.
1912	L. Hooker	See Submission 913.
1913	P. Calder	See Submission 913.
1914	B. Watson	See Submission 913.
1916	Mr & Mrs L. Elves	See Submission 913.
1917	Mr & Mrs K. Cribb	See Submission 913.
1918	H. & S. Waretini	See Submission 913.
1919	E. Laurie	See Submission 913.
1920	B. Oliver	See Submission 913.

1921	Mr & Mrs T. Cater	See Submission 913.
1922	S. van Bree	See Submission 913.
1923	P. Biddick	See Submission 913.
1924	M. Lewington	See Submission 913.
1925	R. Leyden	See Submission 913.
1926	S. Jones	See Submission 913.
1927	P. & D. Pratley	See Submission 913.
1928	M. Baker	See Submission 913.
1929	S. McDougall	See Submission 913.
1930	J. Clare	See Submission 913.
1931	Mr & Mrs R. Stace	See Submission 913.
1932	J. Adams	See Submission 913.
1933	J. & D. Monk	See Submission 913.
1934	K. Burke	See Submission 913.
1935	A. Otis	See Submission 913.
1936	J. Jamin	See Submission 913.
1937	T. Raroa	See Submission 913.
1938	S. Best	See Submission 913.
1939	K. Hodgson	See Submission 913.
1940	N. Tregoning	See Submission 913.
1941	A. George	See Submission 913.
1942	P. & D. Colenso	See Submission 913.
1943	A. & N. Lilly	See Submission 913.
1944	P. Mountford	See Submission 913.
1945	V. Peters	See Submission 913.

1946	Dr & Mrs N. McGill	See Submission 913.
1947	M. Palmer	See Submission 913.
1948	S. Southard	See Submission 913.
1949	W. & A. King	See Submission 913.
1950	W. Masson	See Submission 913.
1951	T. Berridge	See Submission 913.
1952	K. Baird	See Submission 913.
1953	J. Sadler	See Submission 913.
1954	N. Stokes & D. Hobbs	See Submission 913.
1955	R. Low	See Submission 913.
1956	A. Galt	See Submission 913.
1957	B. Drewery	See Submission 913.
1958	C. & M. Stewart	See Submission 913.
1959	A. Stewart	See Submission 913.
1960	T. & A. Althuis	See Submission 913.
1961	G. Megson	See Submission 913.
1962	A. Crawford	See Submission 913.
1963	L. Tweedie	See Submission 913.
1964	H. Bryce	See Submission 913.
1965	E. Churchill	See Submission 913.
1966	D. Hills	See Submission 913.
1967	J. & D. Paull	See Submission 913.
1968	D. Moyes	See Submission 913.
1969	S. Beaven	See Submission 913.
1970	M. Family	See Submission 913.

1971	R. Buller	See Submission 913.
1972	S. Costello	See Submission 913.
1973	B. & G. Heseltine	See Submission 913.
1974	M. & M. Reed	See Submission 913.
1975	K. & L. Watson	See Submission 913.
1976	R. & M. Hendon	See Submission 913.
1977	J. & A. Clifford	See Submission 913.
1978	D. Morrison	See Submission 913.
1979	B. Handley	See Submission 913.
1980	C. Plummer	See Submission 913.
1981	W. Lynch	See Submission 913.
1982	M. Baas	See Submission 913.
1983	N. Taylor	See Submission 913.
1984	C. McDonnell	See Submission 913.
1985	D. Dunbar	See Submission 913.
1986	P. Lowrie	See Submission 913.
1987	R. & G. Smithies	See Submission 913.
1988	J. October	See Submission 913.
1989	E. Brott	See Submission 913.
1990	T. Wyatt	See Submission 913.
1991	W. & A. Lawson	See Submission 913.
1992	M. Crowe	See Submission 913.
1993	J. Hawke	See Submission 913.
1994	H. Newton	See Submission 913.
1995	R. Seymour	See Submission 913.

1996	C. & M. Wyatt	See Submission 913.
1997	G. Smith	See Submission 913.
1998	P. & M. Scott	See Submission 913.
1999	G. McIntyre	See Submission 913.
2000	J. & P. Lagan	See Submission 913.
2001	M. Mayo & N. Field	See Submission 913.
2002	L. & M. McMahon	See Submission 913.
2003	G. van Nobelen	See Submission 913.
2004	F. Good	See Submission 913.
2005	T. Riley	See Submission 913.
2006	E. Ranstron	See Submission 913.
2007	G. Tomlins	See Submission 913.
2008	B. Tweedie	See Submission 913.
2009	J. Halkett	See Submission 913.
2010	Mr & Mrs Barkle	See Submission 913.
2011	J. Austin	See Submission 913.
2012	R. & A. Ramage	See Submission 913.
2013	C. Longstaffe	See Submission 913.
2014	W. Simpson	See Submission 913.
2015	M. Thomas	See Submission 913.
2016	E. & P. Rausch	See Submission 913.
2017	M. Straight	See Submission 913.
2018	A. & E. Taylor	See Submission 913.
2019	G. & D. Jack	See Submission 913.
2020	M. Feaver	See Submission 913.

2021	P. Burgess	See Submission 913.
2022	K. Harry	See Submission 913.
2023	M. & R. Moore	See Submission 913.
2024	M. Hunt	See Submission 913.
2025	M. Savage	See Submission 913.
2026	L. Lawrence	See Submission 913.
2027	M. Russell	See Submission 913.
2028	M. Newcombe	See Submission 913.
2029	K. & B. Taylor	See Submission 913.
2030	R. Williams	See Submission 913.
2031	P. Keen	See Submission 913.
2032	D. & W. Cooper	See Submission 913.
2033	M. Harcus	See Submission 913.
2034	J. Profit	See Submission 913.
2035	E. & B. Walsh	See Submission 913.
2036	Mr & Mrs J. Gilroy	See Submission 913.
2037	G. Baldwin	See Submission 913.
2038	D. Osborne	See Submission 913.
2039	N. Haffenden	See Submission 913.
2040	D. Bashford	See Submission 913.
2041	E. Sweeney	See Submission 913.
2042	R. Gardner	See Submission 913.
2043	T. & K. McIlwrick	See Submission 913.
2044	P. Ross	See Submission 913.
2045	J. Carlyle	See Submission 913.

2046	K. Bryce	See Submission 913.
2047	L. Watson	See Submission 913.
2048	K. & J. Jackson	See Submission 913.
2049	K. Barr	See Submission 913.
2050	M. Frizzell	See Submission 913.
2051	D. Wilson	See Submission 913.
2052	T. & R. O'Keefe	See Submission 913.
2053	A. Webb	See Submission 446.
2054	P. Palmer	Provide a financial incentive to allow the installation of new generation woodburners in place of open fires and existing older woodburner technology.
2056	E. Hilson	See Submission 446.
2057	W. Campion	See Submission 446.
2060	J. Ku	See Submission 913.

Submission Clarification

Submissions 466, 483, 489, 497, 514, 525, 583, 594, 611, 646, 660, 671, 727, 728, 733, 964, 980, 1007, 1013, 1032, 1049, 1054, 1064, 1080, 1103, 1108, 1128, 1152, 1162, 1168, 1234, 1255, 1269, 1278, 1280, 1311, 1362, 1390, 1406, 1423, 1458, 1524, 1535, 1543, 1584, 1606, 1631, 1677, 1680, 1681, 1692, 1726, 1753, 1765, 1766, 1841, 1864, 1875, 1887, 1920, 1931, 1934, 1943, 1945, 1948, 1956, 1957, 1986, 1988, 1999, 2017
 These submissions have been withdrawn. The Commissioners therefore make no recommendation in relation to these.

Consideration

Submissions 3, 27, 71, 84, 130, 141, 149, 150, 181, 195, 335, 375, 446, 447 – 838, 839 – 848, 858-868, 869-876, 877, 880, 881, 885, 909, 910, 911, 912, 913-2060

These various submitters seek that financial incentives are provided which allow the installation of new generation wood burners in place of open fires and existing older wood burner technology.

They are analysed in the context of Method AQL14(b) above and again in relation to Policy AQL16 below. These analyses are adopted. It is recommended that the submissions are rejected insofar as they seek that further financial incentives are provided for new generation woodburners.

Submission 29

Submitter 29 sought that a new method should be introduced to the effect that Environment Canterbury will provide assistance for the development of small scale solid fuel burners meeting the emission standards set out in Policy AQL11.

This submission is considered below in relation to Method AQL18(b), Regional Energy Strategy, ## 03-046 35 00 - 03-046 38 00, 29. That analysis is adopted and it is recommended that the submission is rejected.

Submissions 47, 93 110, 115

Submitters 47 and 110 sought that various specific levels of subsidies should be made available. Submitter 93 sought that the assistance and incentive programme should be cancelled. Submitter 115 sought that any incentive component should be cancelled.

The substance of these submissions is considered below in relation to Method AQL16(b), Financial incentives and assistance ## 03-044 01 00, 47, 93, 110, 115. That analysis is adopted. It is recommended that the submissions are rejected.

Submissions 51, 173, 316, 440

Submitter 51 strongly objects to rates being wasted on subsidising any appliance that emits any polluting particulates, but has no objection to rates being used to subsidise improved insulation for people with low incomes. Submitters 173 and 316 seek that solid fuel heaters should be subsidised, and that financial assistance should be given to replace open fires and non-complying burners. Submitter 440 seeks that there should be a loans scheme as part of the Clean Heat Project.

The substance of these submissions is considered below in relation to Method AQL18(a), Financial incentives and assistance ## 03-046 28 00, 379. The analysis there undertaken is adopted. The Commissioners recommend that these submissions are rejected. No change is recommended.

Submission 96

The submitter supports Method AQL15(b).

Given their other recommendations the Commissioners recommend that this submission is accepted.

Submission 154

Submitter 154 seeks that the method states what subsidies really are – an added cost to all citizens.

This submission is considered above in the context of Method AQL13(b), ## 03-037 27 00, 147, 154. The analysis is adopted and it is recommended that the submission is rejected.

Submission 236

Submitter 236 sought that provision should be made to modify/refurbish existing older burners, plus incentives to convert to new solid fuel burner if the owner desires.

Achievement of Objective AQL3 (and the NES) is reliant upon both 'forced' and 'voluntary' change to home heating devices. In order to achieve Objective AQL3 (and now the NES), a significant number of solid fuel heating devices must be removed, and a significant number must be replaced by low emission technology. Method AQL15(b) provides the framework for an assistance and incentive programme – the Clean Heat Project. The programme assists small scale solid fuel burners that achieve the specified criteria. This non-regulatory approach is necessary as the rule ('forced') framework of Chapter 3 will not achieve the required reduction in PM₁₀ emissions. Incentives are therefore available for the conversion to new solid fuel burners. Insofar as the Commissioners are aware there are no satisfactory or proven modifications or refurbishments which are offered by the Clean Heat Project. It is recommended that this submission is rejected.

Submissions 907, 909

Both of these submitters sought that financial assistance should be provided to those on low income or are in financial difficulties. The submissions were considered above in the context of Method AQL13(b) ## 03-037 27 00, 907 and 909. That analysis is accepted and the recommendation is the same - namely that the submissions be accepted but that no change to Chapter 3 is necessary.

Recommendation

Reject

Submissions 3, 27, 29, 47, 51, 71, 84, 93, 110, 115, 130, 141, 149, 150, 154, 173, 181, 195, 316, 335, 375, 400, 446, 447 – 838, 839 – 848, 858-868, 869-876, 877, 880, 881, 885, 907, 908, 909, 910, 911, 912, 913-2060 (excluding those noted below where the submission has been withdrawn).

Accept

Submissions 96, 907 and 909.

No recommendation required

466, 483, 489, 497, 514, 525, 583, 594, 611, 646, 660, 671, 727, 728, 733, 964, 980, 1007, 1013, 1032, 1049, 1054, 1064, 1080, 1103, 1108, 1128, 1152, 1162, 1168, 1234, 1255, 1269, 1278, 1280, 1311, 1362, 1390, 1406, 1423, 1458, 1524, 1535, 1543, 1584, 1606, 1631, 1677, 1680, 1681, 1692, 1726, 1753, 1765, 1766, 1841, 1864, 1875, 1887, 1920, 1931, 1934, 1943, 1945, 1948, 1956, 1957, 1986, 1988, 1999, 2017.

Amendment Required

None required.

Method AQL15(b) (i) ## 03-041 34 00

71	G. & G. Moss	Add: with new generation clean burning, energy efficient solid fuel enclosed burners.
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Consideration

Submission 71

The submitter seeks that financial assistance should be provided for new generation solid fuel burners.

This submission has been considered above - see Method AQL13(b)(i) at ## 03-037-30-00 by reference to ##03-037 27 00, 51, 170, 173, 420. That analysis is adopted and it is recommended that the submission is rejected.

Recommendation

Reject

Submission 71.

Amendment Required

None required.

Method AQL15(c) Regional Energy Strategy ## 03-041 38 00

33	GLG New Zealand Ltd	Address the use of plantation-grown firewood as a valuable resource to achieve 'a sustainable regional energy system.'
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235	Crown Public Health, Canterbury Office	Add new method AQL 15(c) iv to read: 'Environment Canterbury will work with the suppliers of gas heaters to encourage them to produce flued heating equipment which has the capacity for an alternative form of ignition in the event of a failure of electricity.'
237 (point 1)	Solar Electric Specialists Ltd	Add a new point (iii): 'to promote the adoption of Net Metering in affected areas'
237 (point 2)	Solar Electric Specialists Ltd	Use the 'Clean Heat' project to provide incentives for the adoption of Net Metering systems.
F347	Federated Farmers of New Zealand	Oppose submission 235.

Consideration

Submission 33

Submitter 33 sought changes to Chapter 3 to recognise the importance of plantation grown firewood. In the submitter's view, this is the only feasible sustainable source of energy for domestic heating.

This submission is considered below in the context of Method AQL16(c) Regional Energy Strategy ## 03-044 08 00, 33. It is also noted above, ## 03-037 34 00 - 03-037 38 00, 33. Those analyses are adopted and it is recommended that the submission is rejected.

Submissions 235, F347

Submitter 235, (opposed by submitter 347) sought an addition to Method AQL15(c) requiring Environment Canterbury to work with suppliers of gas heaters to encourage fuel heating equipment which has the capacity for an alternative form of ignition in the event of failure of electricity.

The Commissioners endorse this submission and would hope that ECan would take this step and that manufacturers would assist. However Method AQL15(c) does not require amendment to enable this to occur. It is recommended that the submission be accepted in part - but that no change to Chapter 3 be made. Why submitter F347 opposed this sensible proposition is not known. It is recommended that this further submission be rejected.

Submission 237(points 1 and 2)

Submitter 237 sought changes to Proposed Chapter 3 that promote the adoption of 'net metering' – the connection of small energy sources into the grid power system.

This submission is considered below in the context of Method AQL16(c) Regional Energy Strategy ## 03-044 08 00 (submission 237(points 1 and 2)). It was also touched on above ## 03-037 34 00 to 03-037 38 00, 237 (points 1 and 2). That analysis is adopted and it is recommended that the submission is rejected.

Recommendation

Reject

Submissions 33, 237 (points 1 and 2), F347.

Accept in part

Submission 235.

Amendment Required

None required.

Method AQL15(e) Compliance and enforcement ## 03-042 16 00

348	Environment Canterbury	Add a new first sentence into the method of compliance and enforcement to read: 'Environment Canterbury will undertake monitoring and ensure compliance with resource consents conditions.'
F347	Federated Farmers of New Zealand	Oppose submission 348.

Consideration

Submission 348, opposed by F347

Submitter 348 sought that Method AQL15(e) should be amended by adding a statement to the effect that Environment Canterbury will undertake monitoring and ensure compliance with resource consent conditions.

Environment Canterbury is required to monitor the exercise of resource consents and take appropriate action where this is shown as necessary (section 35(2)(d) of the RMA). The addition of the statement proposed does not change this duty. Section 3.7.3, Compliance Monitoring, in Chapter 3 clearly outlines the monitoring and reporting programme that ECan will undertake, and it gives guidance to reference documents and the customer services number. No change is recommended. It is recommended that submission 348 be rejected. There is no procedural issue with submission 348 - nevertheless it is recommended that submission F347 be accepted to the extent that it opposes submission 348.

Recommendation

Reject

Submission 348.

Accept in part

Submission F347.

Amendment Required

None required.