



RAY ~ Link

Issue Forty Three
May 2002

The Regular Newsletter of The Radio Amateurs' Emergency Network

RAY-Link is published for the benefit of all RAYNET members and is e-mailed to designated addresses. One copy is also posted to each member's household where an e-mail address is not available.

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Attached at the back - Raynet Supplies Order form and List

RSGB Review of RAYNET

Unfortunately the Network did not receive prior notice of the RSGB review, and, despite a timely request, was unable to meet with the report's author to determine how we could best contribute. We did, however, submit the following contribution, and it is believed that the report was presented to the RSGB Board on Saturday 27th. April. There is now dialogue between the Network and the RSGB following the RSGB President, Bob Whelan, G3PJT, meeting our chairman, Ron Cowan, GM4SRL at the Blackpool Rally. They have had subsequent telephone conversations and it is hoped that a meeting can be arranged in the near future.

The text of the letter from the Chairman to the RSGB is shown on page 2.

Health and Safety at Work Act

Although The Radio Amateurs' Emergency Network, as an organisation, is not bound by the Health and Safety at Work Act (not having any paid employees¹), nevertheless every individual member of RAYNET has a legal duty of care towards each other and members of the public.

To encourage good practice, RAYNET has therefore produced the enclosed document for the guidance of all members.

During the course of their duties, RAYNET members may be dealing with a wide variety of situations, for example high structures, AC voltages, generators and fuel, adverse weather conditions and crowds of people. Every situation should be evaluated for risks as early as possible and the appropriate controls put into place. This is called a risk assessment and involves identifying the hazard, the risk associated with it and the likelihood of an accident or incident happening.

The Emergency Planning Team wish to acknowledge the assistance of Dick Walker G3XYJ and others for their contribution in the preparation of the guidance.

It is the responsibility of every RAYNET member to read the document and follow the guidance contained therein. (Pages 5-8 of this RAY-Link)

¹ See HSG192 "Charity and voluntary workers - a guide to health and safety at work" ISBN 0 7176 2424 2

**Membership Fee 45p. per month.
PAI £1.05 per year or part year
(1st May - 30 April).**

*All correspondence and membership registrations should be sent to:-
"Hunters Moon", Newton-le-Willows,
BEDALE, North Yorks, DL8 1SX*

**Emergency 24 hour contact
line:- (0141) 621 2121**

CHAIRMAN:

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(0141) 620 1000

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Contact Jim Andrews, G1HUL
01530 249 218

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Training:

Contact chairman meantime

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Review of RAYNET

Mr. Gordon Adams G3LEQ RSGB

Dear Gordon,

Review of RAYNET

I write following a request from the RSGB to submit input to a Review of RAYNET which you are compiling.

Firstly I must point out that the Committee of Management and I are disappointed that despite e-mailing you on 24th. January asking for an urgent meeting so that we could establish the purpose of the review, you did not contact me until Sunday 24th. March, just five days before the final date for submissions. As Chairman of the UK's leading emergency communications organisation, which is affiliated to the Radio Society of Great Britain, I would have expected to have been contacted if not by return, at least within a time scale which would allow for a timeous meeting.

The purpose of the review is, therefore, not clear, and all I can do is make some suggestions which our Committee of Management would like the Board to consider, and hope that we are thinking along the lines which initiated the process of the review.

Our Name.

Considerable annoyance is caused by the Radio Society of Great Britain and RSGB affiliated groups referring to us as RAEN, or RAEN Ltd. These organisations do not, as far as I know, exist. We are The Radio Amateurs' Emergency Network, and use the term "The Network" as an everyday working title.

Group Inter-working.

On the whole, RAYNET groups work well together at grass routes level, although there is still some animosity in several areas where the ongoings of 1991-2 appear to be a major stumbling block. The Network is working hard to build bridges in these areas, and I would hope that the RSGB will do likewise. The problem would be eased if the RSGB would encourage all independent and RSGB affiliated groups to work together in the Zone and County system, in the manner which was agreed by both the RSGB and the Network when we were asked to separate from RSGB control.

Throughout the separation period the Network understood that the RSGB was fully supporting the new organisation, and was surprised, and disappointed when it decided at a late stage to promote RSGB affiliated groups.

RAYNET is the public face of amateur radio, and many relationships with influential user services have been damaged as a result of the split. UKRS was another branch of the "split" and now that it has folded, there is a good opportunity for all RAYNET to come together once more.

Several years ago I gave a presentation to RSGB Council, and for a while I felt that we were working well together. We had a joint meeting with the Radio Communications Agency, and this was meant to become an annual fixture in the calendar. For some reason, this has not happened, but I would like to see it re-established as quickly as possible.

Talk-through Permits.

Both the Network and the RSGB currently issue Talk-through permits. This is duplication of resources and effort, and I would like to see the responsibility established solely with the Network.

GB2 Call.

The Network met Ian Kyle at Potters Bar during his first year as RSGB President and we discussed many items of mutual interest, covering, amongst other things, training, insurance and licensing conditions. Ian also agreed to pursue our application for a GB2 Call for use during our 80m net, but, several years later, considerable frustration was caused by the blocking of that application and no real reason for the refusal has ever been given.

RSGB ERLO.

We co-operated fully with Tom and Simon while they were RSGB ERLO and Deputy ERLO, and I consider that the relationship was good throughout their time in office. We don't know when the RSGB will appoint successors, or who they will be, but again, I would hope that a good working relationship will be established.

Membership Figures.

Since 1992 nobody knows what the true RAYNET membership figure is. This information is important because user services must have an accurate figure of the number of trained volunteers which they can call upon. While the Network registers individual members, independent groups, and those groups which are affiliated to the RSGB only require to register a group, which may have as few as two or three members or over fifty. I would encourage the RSGB to insist on individual registrations, which are renewed at least every two years.

Membership Cards.

There used to be one National membership card, which showed that the holder was a member of the National organisation. I would encourage a return to this practice, with all RAYNET members having centrally issued cards, laminated at source.

Training.

The Network trains members at local level to a National standard. This is extremely costly in both financial and personal resources. The Network would welcome a financial contribution from the RSGB to allow us to continue and expand this work.

Fellowship.

The Network intends to invite the RSGB President to address the Committee of Management, and I would welcome the opportunity to meet with the RSGB Board.

I hope that these points are helpful, and look forward to reading your report in due course.

Yours sincerely

Ronald M. Cowan, GM4SRL Chairman

Website Upgrade at www.raynet-uk.net

The Network has launched a new "Members only" section in our website, which is designed to provide tailored resources to current members of The Network. The new website provides resources for both members and groups, as well as allowing on-line access to membership details, group details and group diaries.

You can now access:-

- * Member and group specific information
- * Registration forms and information
- * Talkthrough information and forms
- * Insurance policy information
- * Download the RAYNET manual
- * Register for the electronic version of RAY~Link
- * Download past editions of RAY~Link
- * Apply on-line for an @raynet-uk.net e-mail address
- * Order Supplies at discounted prices and choose "member-only" items.

If you hold an appointment within a Group or County, you will have access to additional facilities allowing you to manage your Group more effectively. You can:-

- * View and edit your group membership details
- * Maintain your group event diary and request assistance
- * Submit event and talkthrough reports
- * Submit a group annual activity return

To access the new area go to the revised front page at www.raynet-uk.net and click on "Members' area". The general website has also been revised to compliment the new area and we have removed the use of frames, making it accessible to a wide range of web browsers. We understand that the issue of information security will be a concern of many members and to ensure that personal information is secure, we have put a lot of effort into ensuring that only current members can get at the information, and that the information available to each member is restricted to that required to carry out their function within RAYNET and access to the members' area is controlled by a personal login, the password of which is only known to the individual member.

Details of how you can find yours are on the website entry page. The login controls the options you are able to see and, therefore, the data you are able to access and edit. Without a valid login, you cannot see or do anything in the members' area. All data is held in a secure area on our server, which cannot be accessed directly from the web. This ensures that each member only sees the information for which they are authorised. There is no way to download a copy of the database or extract other information from the website, so you can be assured that your details are safe and cannot be obtained by anyone else for mass-mailing or other less savoury purposes. All personal detail update requests are also checked before processing on the main registrations database.

The work of upgrading the website has been undertaken by our Webmaster, Jim Andrews, G1HUL, who has put a lot of time, effort and skill into the project. If you are familiar with the Internet, you will appreciate the amount of work involved, and you will no doubt enjoy using the site. If you are a newcomer, log on to www.raynet-uk.net and see how easy it is. You won't break it!!

Temporary Members

Important Announcement

Temporary membership must now be notified in advance to the relevant Zonal Co-ordinator. If that ZC is not available, (for example on holiday) any other ZC may be approached.

Temporary membership will start when the application is lodged at Hunters Moon, or on a specific date, whichever is the later, and will run for fourteen days. Should the member apply for full membership during the period of temporary membership, the insurance cover will be continuous through to the first renewal date following the issue of the full membership card. Temporary members are not granted any membership benefits other than 3rd. party insurance cover. A record of temporary applications will be held by the Network and subsequent applications by the same person for temporary membership will not normally be authorised by Zonal Co-ordinators. Members are reminded that insurance cover lapses with membership, and anyone whose membership is overdue is not insured for RAYNET activities. Potential temporary members whose applications have not been recorded by Zonal co-ordinators and passed to Hunters Moon are likewise not covered by insurance.

Hampshire RAYNET

Hampshire RAYNET Engaged on Stand-by Call for CEPO

A major telephone failure occurred during the evening of Thursday 25th. April which disabled telephones covering a large area of South West Hampshire and part of Wiltshire. And at 20.30 Bob G4VWP received a telephone call from the Duty Emergency Planning Officer for Hampshire, requesting that RAYNET be put on Stand-by ready for callout should the need arise. It was also requested that, where possible, an alternative means of contact in addition to home telephones be established. (pagers, mobile phones, radio etc)

Just after 20:00 a further call was received asking that, if required, RAYNET could set up a VHF communications link between The Police Command & Control Centre at Netley and the Police HQ in Winchester. In the event, RAYNET was not required and members were stood down at 23.10.

34 members from the 4 groups within the county indicated that they were available for callout. The Forward Control Land Rover and the 60 foot mobile tower were collected from storage and moved to a member's home in order to reduce any delay in mobilisation had it been needed. A portable mast, radio, power supply and associated equipment was also prepared ready to take to the Police HQ at Winchester if they were required.

The callout was led by Clive McCloud G4EFB, Roger Davies G8SXC, John Witts G6BBW, Ian Duffy G7GMN and Dave Minett G6DJA. Roger Davies had particular difficulty as own phone had been taken out by the failure along with that of some of the group's members.

Mid Herts and Child Protection

For the March training session Mid-Herts RAYNET arranged for a child care agency to speak to the Group regarding Child Protection issues. A good turnout of members was achieved including representatives of North Herts Raynet.

An outline of the requirements of the Act was provided followed by the application to RAYNET activities. Some good advice was received and a number of questions from the members were answered.

As a result of this training session the Group has decided to provide an appropriate policy and guidance to members on the subject in order to minimise the risk to operators should event circumstances bring them into contact with young persons.

Sunderland District Mountain Activities Advisors Challenge Hike 2002

Sunderland RAYNET is looking for assistance this summer with an annual event organised by Sunderland Venture Scouts which they have been covering for more than 10 years and which always attracts a great deal of interest.

The 2002 Challenge Hike will be held in the Ennerdale area of the Lake District from Friday 12th July to Sunday the 14th July 2002 with the event HQ and the base campsite situated at the Ennerdale Scout Centre (GR 088155)

The Challenge is to plan and carry out a self-sufficient expedition in mountainous country. Points are awarded on an orienteering type system linked to route cards and the team with the most points wins. The challenge starts at 0930 hrs on Saturday 13th and finishes on Sunday 14th at 1200 hrs with a compulsory stop between 2100 hrs Saturday and 0600 hrs Sunday. RAYNET's role will be to provide safety communications on behalf of the User Services, and the operators will be used in a variety of situations, ranging from base and roadside locations, to high-level mountain check-points and will usually accompany marshals from the Scout Association. It follows that operators may experience physical exertion and extreme climatic change! If volunteers express a willingness to be used on mountain checkpoints, it is essential that they are equipped with appropriate clothing and footwear, be able to operate with a degree of independence and must have map reading ability.

Bunkhouse accommodation may be available, and there is also a campsite. The Scouts can provide a light supper on Friday, breakfast and supper on Saturday and breakfast and lunch on the Sunday. However, volunteers should also be self-sufficient for possibly long periods away from base.

Sunderland RAYNET will probably use a low power in-band or cross-band repeater (vhf/uhf) although technical details are yet to be finalised.

This is a complex event to arrange, and it would be helpful if interested members could contact Terry Elliott G0EHX terry.elliott@raynet-uk.net or 0191-5289662 as soon as possible.

Exercise Grizzly Bear RAF Hullavington

This all services exercise simulated a Hercules Transport aircraft crash landing on a convoy of lorries. Apart from the usual fire and mayhem, the added excitement was the risk of contamination from radio-active material. Fire, Police, Ambulance services were deployed. The Emergency Planning Team from Wilts County Council, Water Authorities and Environment Agency along with NAIR hospital provision were called in. Emergency road closures were put in place and press releases issued. The local primary school was informed to keep pupils and staff indoors and local residents were similarly warned and told to listen out for more information via local radio and TV. RAYNET was called in to setup communications from EPO Bronze Control at the incident site with EPO Silver Gold (County Main) and N Wilts DC Offices. In reality we manned both Silver and Bronze at the incident.



EPO Silver Control Pictured are John Edwards (left), G4TIX (top), Jane (centre) new to the EPO Team, G8SXD (right) Forward Police Control point, blue tent on right. In the distance is the Forward Fire Control point and the incident cordon area. Forward Control was manned by M1BPD with the LAIO. Incident site. Front section of Hercules transport aircraft and part of convoy Sundry collected units supporting the incident outside the cordon area Support and comms units, and some interesting ones with blacked out windows and porcupines on their roofs!

Cumbria Walk, 1st. - 3rd. June 2002

An appeal has been made for help with the Long Distance Walkers' Association 100 mile walk in Cumbria. The event will be held on the weekend of 1st. - 3rd. June, and further RAYNET operators are required.

There are 18 checkpoints, and opening periods for these vary from about 6 to 26 hours. Ideally, teams of operators will work at a checkpoint for as long as it is open, but as other arrangements can be made, volunteers with a range of availabilities are needed to cover the event. Those who can help are asked to contact Phil at phil.g4huf@dial.pipex.com

GUIDELINES FOR HEALTH AND SAFETY

1. Summary
2. Introduction
3. Health & safety guidelines
 - a. Masts - erecting and dismantling
 - b. Avoiding danger from overhead power lines
 - c. Generators
 - d. Installing radio equipment in motor vehicles
 - e. Fire extinguishers
 - f. Maintaining portable and transportable electrical equipment
 - g. Setting up and maintaining equipment at temporary locations
 - h. Special considerations within hospitals
 - i. RAYNET training and support at public events
 - j. Personal responsibilities
4. Conclusions
5. Recommendations

1. Summary

Although The Radio Amateurs' Emergency Network, as an organisation, is not bound by the Health and Safety at Work Act (not having any paid employees¹), nevertheless every individual member of RAYNET has a legal duty of care towards each other and members of the public.

To encourage good practice, RAYNET has therefore produced the following document for the guidance of all members.

2. Introduction

During the course of their duties, RAYNET members may be dealing with a wide variety of situations, for example high structures, AC voltages, generators and fuel, adverse weather conditions and crowds of people. Every situation should be evaluated for risks as early as possible and the appropriate controls put into place. This is called a risk assessment and involves identifying the hazard, the risk associated with it and the likelihood of an accident or incident happening.

3. Health and Safety Guidelines

a. Masts - erecting and dismantling

- * Lightweight masts (up to 30ft)
 - o One person should have overall responsibility of the mast "party"
 - o Consider the suitability of the ground
 - * Soft or firm
 - * Sloping or level
 - * Check for the presence of overhead power cables ²
 - o Consider existing and forecasted weather conditions
- * Additionally for masts in excess of 30ft or with a heavier head-load
 - o The use of a gin pole is recommended
- * **Mast erection / dismantling**
 - * Does the mast have a base-plate?
 - * What guying is appropriate?
 - * Is each section in good condition?
 - * Are the members of the team familiar with the method employed to lower and raise it?
 - * Are all members wearing appropriate personal safety equipment (eg gloves, hard hats)?
 - * Will all the guy ropes and ground pins be clearly identified to avoid trip hazards?
 - * If the mast should collapse, what damage could occur?

b. Avoiding danger from overhead power lines ²

- * Check for overhead cables running across the area

c. Generators

- * Place the generator at least 1m away from any building, tent, vehicle etc
- * Allow for adequate ventilation and never use a generator in a confined space
- * Operate the generator on a level surface
- * Never operate the generator with wet hands, and protect it from precipitation
- * Make sure that those operating the generator are aware of the manufacturer's safety notes (usually found in the Owners Manual)
- * Ensure that pets and unauthorised personnel are kept away from the generator.
- * Generators should only be refuelled when not in operation
- * A suitable fire extinguisher should be located nearby.

d. Installing radio equipment in motor vehicles³

- * Batteries should be adequately ventilated and secured to avoid upset
- * All conductors and cables should be adequately protected
- * The termination of flexible cables should be free from strain
- * Mobile radio equipment should be connected to a power supply by a fuse-link.
- * Radio equipment should be secured
- * The operation of radio equipment should not impede the driver

e. Fire extinguishers

- * Suitable fire extinguishers should be provided appropriate to the equipment (eg a dry powder extinguisher for a generator (blue band on shoulder or blue panel))
- * Following a fire involving electrical equipment, it should be isolated from the supply immediately and permitted to cool.

f. Safety checks for portable and transportable electrical equipment ⁴

*** External examination:**

- o Examine the power lead for damage (cuts, abrasions etc)
- o Examine the plug for damage (cracks to the casing or bent pins)
- o Look for signs of overheating (burn or scorch marks)
- o Ensure that the cable is being gripped properly where it enters the plug.
- o In a moulded plug, only the fuse can be checked.

*** Upon removal of the plug casing, check that :**

- o The correct fuse is being used
- o The cord grip is holding the outer part of the cable tightly
- o The wires are attached to the correct terminals
- o No bare wires are visible except at the terminals
- o The terminal screws are tight
- o There is no sign of internal damage (overheating, entry of liquid, dust or dirt)

It is not necessary for 12v equipment to be PAT tested; it may be appropriate for power supplies and mains-operated equipment to be checked, as this may be a requirement of the User Service.

g. Setting up and maintaining equipment at temporary locations

*** Please refer to Sections a, b, c & d**

*** Additionally, check that:**

- o No cables are trailing across walkways - if such a route is absolutely necessary, they should be taped securely to the floor.
- o Aerial cables have a suitable point of entry into the building.
- o The location of equipment does not impede access/egress through doorways, emergency exits etc.

h. Special considerations within hospitals

In many hospitals, the use of mobile telephones and radio equipment is forbidden, as it is suggested that radio transmissions might adversely affect sensitive equipment. Before using radio equipment on hospital premises, permission must be sought from the Hospital Emergency Liaison Officer.

NB: there are other locations where there will be a restriction on the use of radio equipment.

i. RAYNET training and support at public events

Consideration should be given to the welfare of all RAYNET personnel and the RAYNET Risk Assessment at Public Events document (RA-Assessment [Rev00/05]) may be used for this.

j. Personal responsibilities

Members are responsible for their own safety and for the safety of others.

*** Health & physical condition**

- o RAYNET members should not be allocated duties beyond their physical capabilities. When assigning duties, controllers should take into account the age, state of health and any other factor which might affect the member's capability to discharge that duty in a safe manner.
- o Individual members should decline a duty which they feel is beyond their physical capabilities.
- o Members may wish, for their own protection, to carry a card stating important information
 - * Name, address and telephone number of next of kin
 - * Details of any regular medication
 - * Details of any physical condition which might be important to medical staff.
 - * Details of any allergies
 - * Blood group

*** Weather conditions**

- o Members should dress to suit whatever weather might be encountered during their duty of operation
 - * A suitable sunscreen should be applied in sunny weather
 - * A peaked hat is advisable to both shield the forehead in sun and reduce the loss of body heat in the cold.
 - * The Net Controller should check on the welfare of operators regularly, particularly during long hours of duty and in adverse weather/night-time operations

*** Refreshments**

- o A quantity of food, soft drinks and at least a litre of water sufficient for at least 24 hours operation should be carried unless the event is known to be of short duration
- o Fresh & dried fruit and chocolate can be carried as emergency rations.

4. Conclusions

Although not a definitive list, the following eight main categories may pose hazards for RAYNET operators or others:

- * Masts - erecting and dismantling
- * Danger from overhead power lines
- * Generators
- * Installing radio equipment in motor vehicles
- * Safety checks for portable and transportable electrical equipment
- * Setting up and maintaining equipment at temporary locations
- * Special considerations within hospitals
- * Personal welfare

RAYNET SUPPLIES
85 Eastwoodmains Road
Clarkston
GLASGOW G76 7HG
supplies@raynet-uk.net

Ref No	Description	Basic Price	Members' Price.	P&P
101	Yellow High Visibility Jacket with clear badge pockets but no badges - S	£53.00	£47.70	£5.25
102	Yellow High Visibility Jacket with clear badge pockets but no badges- M	£53.00	£47.70	£5.25
103	Yellow High Visibility Jacket with clear badge pockets but no badges - L	£53.00	£47.70	£5.25
104	Yellow High Visibility Jacket with clear badge pockets but no badges - XL	£53.00	£47.70	£5.25
105	Yellow High Visibility Jacket with clear badge pockets but no badges - 2XL	£53.00	£47.70	£5.50
106	Yellow High Visibility Jacket with clear badge pockets but no badges- 3XL	£61.00	£54.90	£5.50
107	Yellow High Visibility Jacket with clear badge pockets but no badges - 4XL	£61.00	£54.90	£5.50
111	Orange High Visibility Jacket with clear badge pockets but no badges - S	£53.00	£47.70	£5.25
112	Orange High Visibility Jacket with clear badge pockets but no badges - M	£53.00	£47.70	£5.25
113	Orange High Visibility Jacket with clear badge pockets but no badges - L	£53.00	£47.70	£5.25
114	Orange High Visibility Jacket with clear badge pockets but no badges - XL	£53.00	£47.70	£5.25
115	Orange High Visibility Jacket with clear badge pockets but no badges - 2XL	£53.00	£47.70	£5.50
116	Orange High Visibility Jacket with clear badge pockets but no badges - 3XL	£61.00	£54.90	£5.50
117	Orange High Visibility Jacket with clear badge pockets but no badges - 4XL	£61.00	£54.90	£5.50
121	Yellow High Visibility Deluxe Jacket with clear badge pockets - S	POA	POA	£5.50
122	Yellow High Visibility Deluxe Jacket with clear badge pockets - M	POA	POA	£5.50
123	Yellow High Visibility Deluxe Jacket with clear badge pockets - L	POA	POA	£5.50
124	Yellow High Visibility Deluxe Jacket with clear badge pockets - XL	POA	POA	£5.50
125	Yellow High Visibility Deluxe Jacket with clear badge pockets - 2XL	POA	POA	£5.75
126	Yellow High Visibility Deluxe Jacket with clear badge pockets - 3XL	POA	POA	£5.75
127	Yellow High Visibility Deluxe Jacket with clear badge pockets - 4XL	POA	POA	£5.75
131	Orange High Visibility Deluxe Jacket with clear badge pockets - S	POA	POA	£5.50
132	Orange High Visibility Deluxe Jacket with clear badge pockets - M	POA	POA	£5.50
133	Orange High Visibility Deluxe Jacket with clear badge pockets - L	POA	POA	£5.50
134	Orange High Visibility Deluxe Jacket with clear badge pockets - XL	POA	POA	£5.50
135	Orange High Visibility Deluxe Jacket with clear badge pockets - 2XL	POA	POA	£5.75
136	Orange High Visibility Deluxe Jacket with clear badge pockets - 3XL	POA	POA	£5.75
137	Orange High Visibility Deluxe Jacket with clear badge pockets - 4XL	POA	POA	£5.75
201	Yellow High Visibility Waistcoat c/w RAYNET badges - S	£17.50	£15.75	£1.25
202	Yellow High Visibility Waistcoat c/w RAYNET badges - M	£17.50	£15.75	£1.25
203	Yellow High Visibility Waistcoat c/w RAYNET badges - L	£17.50	£15.75	£1.25
204	Yellow High Visibility Waistcoat c/w RAYNET badges - XL	£17.50	£15.75	£1.25
205	Yellow High Visibility Waistcoat c/w RAYNET badges - 2XL	£17.50	£15.75	£1.50
206	Yellow High Visibility Waistcoat c/w RAYNET badges - 3XL	£17.50	£15.75	£1.50
207	Yellow High Visibility Waistcoat c/w RAYNET badges - 4XL	£17.50	£15.75	£1.50
211	Orange High Visibility Waistcoat c/w RAYNET badges - S	£17.50	£15.75	£1.25
212	Orange High Visibility Waistcoat c/w RAYNET badges - M	£17.50	£15.75	£1.25
213	Orange High Visibility Waistcoat c/w RAYNET badges - L	£17.50	£15.75	£1.25
214	Orange High Visibility Waistcoat c/w RAYNET badges - XL	£17.50	£15.75	£1.25
215	Orange High Visibility Waistcoat c/w RAYNET badges - 2XL	£17.50	£15.75	£1.50
216	Orange High Visibility Waistcoat c/w RAYNET badges - 3XL	£17.50	£15.75	£1.50
217	Orange High Visibility Waistcoat c/w RAYNET badges - 4XL	£17.50	£15.75	£1.50

RAYNET SUPPLIES
85 Eastwoodmains Road
Clarkston
GLASGOW G76 7HG
supplies@raynet-uk.net

Ref No	Description	Basic Price	Members' Price	P&P
221	Yellow High Visibility Long Sleeved Waistcoat c/w RAYNET badges - S	£19.50	£17.55	£1.80
222	Yellow High Visibility Long Sleeved Waistcoat c/w RAYNET badges - M	£19.50	£17.55	£1.80
223	Yellow High Visibility Long Sleeved Waistcoat c/w RAYNET badges - L	£19.50	£17.55	£1.80
224	Yellow High Visibility Long Sleeved Waistcoat c/w RAYNET badges - XL	£19.50	£17.55	£1.80
225	Yellow High Visibility Long Sleeved Waistcoat c/w RAYNET badges - 2XL	£19.50	£17.55	£1.80
226	Yellow High Visibility Long Sleeved Waistcoat c/w RAYNET badges - 3XL	£19.50	£17.55	£1.80
227	Yellow High Visibility Long Sleeved Waistcoat c/w RAYNET badges - 4XL	£19.50	£17.55	£1.80
231	Orange High Visibility Long Sleeved Waistcoat c/w RAYNET badges - S	£19.50	£17.55	£1.80
232	Orange High Visibility Long Sleeved Waistcoat c/w RAYNET badges - M	£19.50	£17.55	£1.80
233	Orange High Visibility Long Sleeved Waistcoat c/w RAYNET badges - L	£19.50	£17.55	£1.80
234	Orange High Visibility Long Sleeved Waistcoat c/w RAYNET badges - XL	£19.50	£17.55	£1.80
235	Orange High Visibility Long Sleeved Waistcoat c/w RAYNET badges - 2XL	£19.50	£17.55	£1.80
236	Orange High Visibility Long Sleeved Waistcoat c/w RAYNET badges - 3XL	£19.50	£17.55	£1.80
237	Orange High Visibility Long Sleeved Waistcoat c/w RAYNET badges - 4XL	£19.50	£17.55	£1.80
301	Reflective "RAYNET" badge - S	£1.90	£1.71	£0.50
302	Reflective "RAYNET" badge - L	£3.15	£2.84	£0.75
303	Reflective "RAYNET Controller" badge - S	£3.00	£2.70	£0.50
304	Reflective "RAYNET Controller" badge - L	£5.35	£4.82	£0.75
311	Epauettes - Pair	£3.90	£3.51	£0.75
312	Epauettes - Controller - Pair	£5.50	£4.95	£0.75
316	Clear badge pocket, not including badge - Small	£2.00	£1.80	£0.75
317	Clear badge pocket, not including badge - Large	£3.50	£3.15	£1.00
481*	Tie, navy, with round Network logo in white	£6.70	£6.03	£0.75
482*	Headscarf, navy, with round Network logo in white	£6.70	£6.03	£0.50
483*	Baseball Cap, black, with round Network logo embroidered in gold	£4.45	£4.01	£1.25
583	Baseball Cap, black, with text "RAYNET" embroidered in gold	£4.45	£4.01	£1.25
601	ID Badge Holder with Clip	£1.70	£1.53	£0.50
711*	Keyring with leather fob with round Network logo	£3.10	£2.79	£0.50
715*	Lapel Badge, stud fixing, with round Network logo	£1.15	£1.04	£0.50
717*	Embroidered round Network logo sew on badge	£2.50	£2.25	£0.50
721*	Fold-over yellow clipboard with round Network logo printed in black	£5.60	£5.04	£1.80
611	18 amp RAYNET standard connectors - Pack of 10 pairs	£7.80	£7.02	£0.75
726*	Window Sticker - (100mm round Network logo, black on yellow)	£0.90	£0.81	£0.50
731*	Logo Sticker, large - (280mm black on yellow, strong adhesive)	£4.45	£4.01	£0.75
622	Window Sticker, small, - (Text, blk on ylw, "RAYNET" 200mm x 60mm)	£0.45	£0.41	£0.50
623	Window Sticker, large, - (Text, blk on ylw, RAYNET 500mm x 125mm)	£0.90	£0.81	£0.50
626	Car Window Panel with suckers - (Text, silver on blue, "RAYNET")	£7.80	£7.02	£0.75
627	Magnetic Sign - (Text white on Blue, 310mm x 100mm)	£6.00	£5.40	£1.35
628	Sign for mounting on Roof Rack, double sided, white on blue/red	£22.50	£20.25	£2.75
641	Emergency Cone Light with gravity switch, amber LEDs	£22.50	£20.25	£2.00
736*	Flag 3'x2' dye printed, black Network logo on yllw polyester roped & toggled	£46.50	£41.85	£1.50

RAYNET SUPPLIES
85 Eastwoodmains Road
Clarkston
GLASGOW G76 7HG
supplies@raynet-uk.net

Ref No	Description	Basic Price	Members' Price	P&P
401*	Acrylic V neck Nato Jumper embroidered round Network logo - S	£15.50	£13.95	£2.00
402*	Acrylic V Neck Nato Jumper embroidered round Network logo - M	£15.50	£13.95	£2.00
403*	Acrylic V Neck Nato Jumper embroidered round Network logo - L	£15.50	£13.95	£2.00
404*	Acrylic V Neck Nato Jumper embroidered round Network logo - XL	£15.50	£13.95	£2.25
405*	Acrylic V Neck Nato Jumper embroidered round Network logo - 2XL	£15.50	£13.95	£2.25
406*	Acrylic V Neck Nato Jumper embroidered round Network logo - 3XL	£15.50	£13.95	£2.25

501	Acrylic V Neck Nato Jumper embroidered text "RAYNET" - S	£15.00	£13.50	£2.00
502	Acrylic V Neck Nato Jumper embroidered text "RAYNET" - M	£15.00	£13.50	£2.00
503	Acrylic V Neck Nato Jumper embroidered text "RAYNET" - L	£15.00	£13.50	£2.00
504	Acrylic V Neck Nato Jumper embroidered text "RAYNET" - XL	£15.00	£13.50	£2.25
505	Acrylic V Neck Nato Jumper embroidered text "RAYNET" - 2XL	£15.00	£13.50	£2.25
506	Acrylic V Neck Nato Jumper embroidered text "RAYNET" - 3XL	£15.00	£13.50	£2.25

411*	Acrylic Round Neck Jumper embroidered round Network logo - S	£15.50	£13.95	£2.00
412*	Acrylic Round Neck Jumper embroidered round Network logo - M	£15.50	£13.95	£2.00
413*	Acrylic Round Neck Jumper embroidered round Network logo - L	£15.50	£13.95	£2.00
414*	Acrylic Round Neck Jumper embroidered round Network logo - XL	£15.50	£13.95	£2.25
415*	Acrylic Round Neck Jumper embroidered round Network logo- 2XL	£15.50	£13.95	£2.25
416*	Acrylic Round Neck Jumper embroidered round Network logo- 3XL	£15.50	£13.95	£2.25

511	Acrylic Round Neck Nato Jumper embroidered text "RAYNET" - S	£15.00	£13.50	£2.00
512	Acrylic Round Neck Nato Jumper embroidered text "RAYNET" - M	£15.00	£13.50	£2.00
513	Acrylic Round Neck Nato Jumper embroidered text "RAYNET" - L	£15.00	£13.50	£2.00
514	Acrylic Round Neck Nato Jumper embroidered text "RAYNET" - XL	£15.00	£13.50	£2.25
515	Acrylic Round Neck Nato Jumper embroidered text "RAYNET" - 2XL	£15.00	£13.50	£2.25
516	Acrylic Round Neck Nato Jumper embroidered text "RAYNET" - 3XL	£15.00	£13.50	£2.25

421*	Sweatshirt, navy, with embroidered round Network logo in gold - S	£16.00	£14.40	£1.80
422*	Sweatshirt, navy, with embroidered round Network logo in gold - M	£16.00	£14.40	£1.80
423*	Sweatshirt, navy, with embroidered round Network logo in gold - L	£16.00	£14.40	£1.80
424*	Sweatshirt, navy, with embroidered round Network logo in gold - XL	£16.00	£14.40	£1.80
425*	Sweatshirt, navy, with embroidered round Network logo in gold - 2XL	£16.00	£14.40	£1.80
426*	Sweatshirt, navy, with embroidered round Network logo in gold - 3XL	£16.00	£14.40	£1.80

521	Sweatshirt, navy, with embroidered text "RAYNET" in gold - S	£15.50	£13.95	£1.80
522	Sweatshirt, navy, with embroidered text "RAYNET" in gold - M	£15.50	£13.95	£1.80
523	Sweatshirt, navy, with embroidered text "RAYNET" in gold - L	£15.50	£13.95	£1.80
524	Sweatshirt, navy, with embroidered text "RAYNET" in gold - XL	£15.50	£13.95	£1.80
525	Sweatshirt, navy, with embroidered text "RAYNET" in gold - 2XL	£15.50	£13.95	£1.80
526	Sweatshirt, navy, with embroidered text "RAYNET" in gold - 3XL	£15.50	£13.95	£1.80

431*	Polo shirt, navy, with embroidered round Network logo in gold- S	£15.00	£13.50	£1.80
432*	Polo shirt, navy, with embroidered round Network logo in gold - M	£15.00	£13.50	£1.80
433*	Polo shirt, navy, with embroidered round Network logo in gold - L	£15.00	£13.50	£1.80
434*	Polo shirt, navy, with embroidered round Network logo in gold - XL	£15.00	£13.50	£1.80
435*	Polo shirt, navy, with embroidered round Network logo in gold - 2XL	£15.00	£13.50	£1.80
436*	Polo shirt, navy, with embroidered round Network logo in gold - 3XL	£16.00	£14.40	£1.80

531	Polo shirt, navy, with embroidered text "RAYNET" in gold- S	£14.50	£13.05	£1.80
532	Polo shirt, navy, with embroidered text "RAYNET" in gold - M	£14.50	£13.05	£1.80
533	Polo shirt, navy, with embroidered text "RAYNET" in gold - L	£14.50	£13.05	£1.80
534	Polo shirt, navy, with embroidered text "RAYNET" in gold - XL	£14.50	£13.05	£1.80

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535	Polo shirt, navy, with embroidered text "RAYNET" in gold - 2XL	£14.50	£13.05	£1.80
536	Polo shirt, navy, with embroidered text "RAYNET" in gold - 3XL	£15.50	£13.95	£1.80
Ref No	Description	Basic Price	Members' Price	P&P
441*	Pilot Shirt with embroidered round Network logo - Short Sleeves - S	£11.25	£10.13	£1.80
442*	Pilot Shirt with embroidered round Network logo - Short Sleeves - M	£11.25	£10.13	£1.80
443*	Pilot Shirt with embroidered round Network logo - Short Sleeves - L	£11.25	£10.13	£1.80
444*	Pilot Shirt with embroidered round Network logo - Short Sleeves - XL	£11.25	£10.13	£1.80
445*	Pilot Shirt with embroidered round Network logo - Long Sleeves - S	£11.25	£10.13	£1.80
446*	Pilot Shirt with embroidered round Network logo - Long Sleeves - M	£11.25	£10.13	£1.80
447*	Pilot Shirt with embroidered round Network logo - Long Sleeves - L	£11.25	£10.13	£1.80
448*	Pilot Shirt with embroidered round Network logo - Long Sleeves - XL	£11.25	£10.13	£1.80
541	Pilot Shirt with embroidered text "RAYNET" - Short Sleeves - S	£11.00	£9.90	£1.80
542	Pilot Shirt with embroidered text "RAYNET" - Short Sleeves - M	£11.00	£9.90	£1.80
543	Pilot Shirt with embroidered text "RAYNET" - Short Sleeves - L	£11.00	£9.90	£1.80
544	Pilot Shirt with embroidered text "RAYNET" - Short Sleeves - XL	£11.00	£9.90	£1.80
545	Pilot Shirt with embroidered text "RAYNET" - Long Sleeves - S	£11.00	£9.90	£1.80
546	Pilot Shirt with embroidered text "RAYNET" - Long Sleeves - M	£11.00	£9.90	£1.80
547	Pilot Shirt with embroidered text "RAYNET" - Long Sleeves - L	£11.00	£9.90	£1.80
548	Pilot Shirt with embroidered text "RAYNET" - Long Sleeves - XL	£11.00	£9.90	£1.80

451*	Calgary fleece, grey, with embroidered round Network logo in gold - S	£46.50	£41.85	£3.00
452*	Calgary fleece, grey, with embroidered round Network logo in gold - M	£46.50	£41.85	£3.00
453*	Calgary fleece, grey, with embroidered round Network logo in gold - L	£46.50	£41.85	£3.00
454*	Calgary fleece, grey, with embroidered round Network logo in gold - XL	£46.50	£41.85	£3.00
455*	Calgary fleece, grey, with embroidered round Network logo in gold - 2XL	£46.50	£41.85	£3.00
551	Calgary fleece, grey, with embroidered text "RAYNET" in gold - S	£46.50	£41.85	£3.00
552	Calgary fleece, grey, with embroidered text "RAYNET" in gold - M	£46.50	£41.85	£3.00
553	Calgary fleece, grey, with embroidered text "RAYNET" in gold - L	£46.50	£41.85	£3.00
554	Calgary fleece, grey, with embroidered text "RAYNET" in gold - XL	£46.50	£41.85	£3.00
555	Calgary fleece, grey, with embroidered text "RAYNET" in gold - 2XL	£46.50	£41.85	£3.00
701*	CD RAYNET Operations Manual	£5.60	£5.04	£0.75

* Available only to members of The Radio Amateurs' Emergency Network.

