

Met Office Trial Specific Outlook Forecast -  
MOD Hebrides Outer Range,  
Thursday 02 August to Saturday 04 August



# Trial-Specific Outlook Forecast – MOD Hebrides Outer Range

- Trials: BAE Harrier Brimstone Firings
- Forecast Area: 57.4 DEG N 008.4 DEG W and 55 KM radius, including St Kilda
- Forecasts valid 0900 to 1800 UTC each day (unless otherwise stated)

All heights in FT AMSL

Winds in degrees true and knots

Visibility given as GOOD ( $\geq 10$  KM), MOD (4000 M to 9 KM) or POOR ( $< 4000$  M)

Cloud amounts given as FEW 1-2, SCT 3-4, BKN 5-7, OVC 8 oktas

Risk of thunderstorms given as HIGH (50% or higher), MOD (28-49%), LOW (1-25%) or NIL (less than 1%)

Time standard UTC

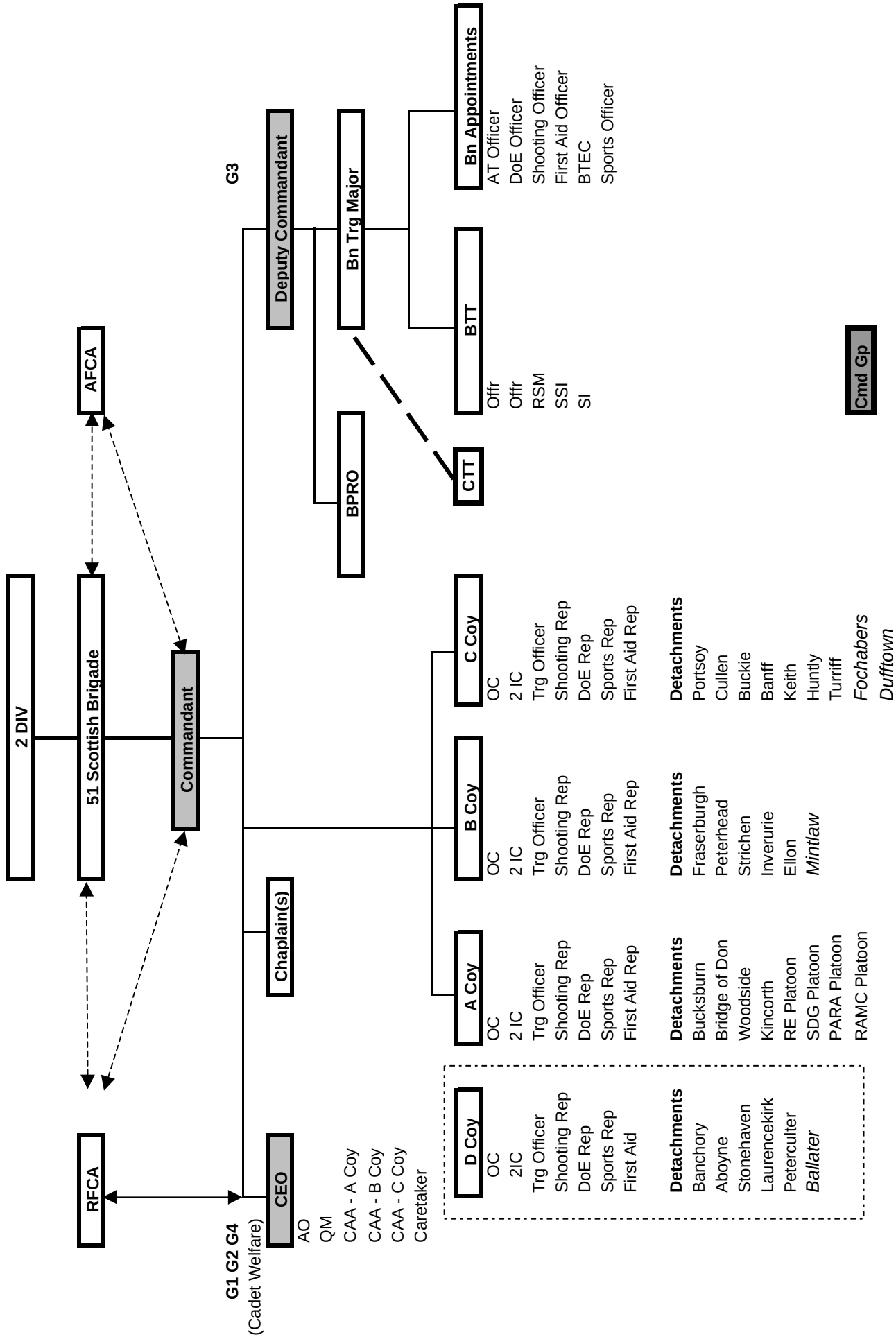
Temperatures in degrees Celsius

LOW (1-25%) or NIL (less than 1%)

| Thursday 02 August 2007                                             |                                                                                                                                                                                                                                                                                                       | Friday 03 August 2007                                                                     | Saturday 04 August 2007                                                                                                          |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Date:</b>                                                        |                                                                                                                                                                                                                                                                                                       |                                                                                           |                                                                                                                                  |
| <b>Surface Wind:</b>                                                | 280 10 gradually backing 230 10                                                                                                                                                                                                                                                                       | 180 15 G 25 BECMG<br>190 20-25 G 30-35                                                    | 190 10-15 G 20                                                                                                                   |
| <b>St Kilda Hill Top Wind:</b><br>(MAX gust limit 60 KT at 1400 FT) | 290 15 gradually backing 250 15                                                                                                                                                                                                                                                                       | 210 20 BECMG<br>210 35-40 G 45-50                                                         | 210 20 G 30                                                                                                                      |
| <b>MAX Wind up to 33000 FT:</b><br>(MAX 140 KT)                     | 320 115 at 28000                                                                                                                                                                                                                                                                                      | 230 90 at 30000                                                                           | 210 110 at 30000                                                                                                                 |
| <b>Sea State (wind wave):</b>                                       | 3 (slight)                                                                                                                                                                                                                                                                                            | 4 (moderate) BECMG<br>5 (rough)                                                           | 5 (rough) BECMG<br>6 (very rough)                                                                                                |
| <b>Sea State (total sea):</b>                                       | 5 (rough)                                                                                                                                                                                                                                                                                             | 4 (moderate) BECMG<br>5 (rough)                                                           | 4 (moderate)                                                                                                                     |
| <b>Cloud:</b><br>(Specify any CB)                                   | BKN CU BASE 1700 TOP 6500 ISOL TOP 9000 BECMG<br>FEW CU BASE 2500 TOP 5000 after midday.<br>BKN SC BASE 6000 TOP 7000 lowering to BKN OCNL SCT<br>SC BASE 4500 TOP 5500 after midday.<br>Areas SCT CI LYR BASE 21000 TOP 28000 thickening to<br>BKN AC AS CI CS LYR BASE 18000 TOP 36000 after 1200 Z | Thick frontal cloud layers<br>between 1000-1500 and<br>36000                              | Thick frontal cloud layers between<br>800-1500 and 36000 breaking during<br>the afternoon                                        |
| <b>Surface Visibility:</b>                                          | GOOD                                                                                                                                                                                                                                                                                                  | MOD in slight rain and sea<br>spray, POOR in moderate rain<br>and drizzle                 | GOOD, MOD in slight rain, POOR in<br>drizzle and moderate/heavy rain                                                             |
| <b>Weather:</b>                                                     | Cloudy with slight showers BECMG partly cloudy and dry after<br>midday                                                                                                                                                                                                                                | Cloudy with slight/moderate<br>rain and drizzle. Widespread<br>sea spray                  | Cloudy with slight/moderate rain and<br>drizzle, heavy at times, MOD PROB<br>BECMG partly cloudy and dry during<br>the afternoon |
| <b>Risk of Thunderstorms:</b>                                       | NIL                                                                                                                                                                                                                                                                                                   | LOW                                                                                       | LOW                                                                                                                              |
| <b>Confidence in Forecast:</b>                                      | HIGH/MOD                                                                                                                                                                                                                                                                                              | MOD/LOW                                                                                   | LOW                                                                                                                              |
| <b>Remarks:</b>                                                     | NIL                                                                                                                                                                                                                                                                                                   | Low confidence due to knock-<br>on forecasting problem of ex-<br>tropical storm Chantelle | Small PROB surface winds<br>strengthening to gale force during<br>the afternoon. LOW cloud at Warton                             |
| <b>This forecast may be amended at any time.</b>                    |                                                                                                                                                                                                                                                                                                       | <b>Next routine issue: 021300 UTC</b>                                                     |                                                                                                                                  |
| Issued by Met Office Aberporth ext. 3368                            |                                                                                                                                                                                                                                                                                                       | Forecaster: S Jury                                                                        |                                                                                                                                  |
| email: nimbusabo@metoffice.gov.uk                                   |                                                                                                                                                                                                                                                                                                       |                                                                                           |                                                                                                                                  |

2nd Battalion The Highlanders ACF  
organisational chart

2nd Battalion The Highlanders ACF



Annual Camp 2007 Block Programme

**ANNUAL CAMP 2007 BLOCK PROGRAMME**

|     | INTERMEDIATE | 1 STAR                                                         | 2 STAR                 | 3 STAR         | 4 STAR       | Duty Cadre                      | Visitors                    | Remarks                     |
|-----|--------------|----------------------------------------------------------------|------------------------|----------------|--------------|---------------------------------|-----------------------------|-----------------------------|
| DAY | DATE         | 82                                                             | 39                     | 34             | 22           | 12                              |                             | 189                         |
| FRI | 27           | A Coy Travel                                                   |                        |                |              |                                 |                             |                             |
| SAT | 28           | A Coy SAA Travel B/C Coys                                      |                        |                |              |                                 |                             |                             |
| SUN | 29           | Camp Orientation / Church Service / Red Book / Cadre Briefings |                        |                |              |                                 |                             |                             |
| MON | 30           | APC                                                            | APC                    | Ranges/APC     | First Aid    | Ranges/ APC Revision            |                             |                             |
| TUE | 31           | APC                                                            | Ranges/APC/Heart Start | APC            | Walk         | EX Prep                         | MW,JB                       | Light Noise Demo            |
| WED | 1            | APC                                                            | Ranges/APC/Heart Start | Fun Day        | Walk/EX Prep | F/C                             | AK,BT,MW                    | Disco                       |
| THU | 2            | Fun Day                                                        | Walk                   | EX Prep        | F/C          | F/C                             | MW,JB                       | Helicopters                 |
| FRI | 3            | Walk                                                           | APC                    | F/C            | F/C          | F/C                             | MS                          | Helicopters/Disco           |
| SAT | 4            | Ranges/APC/Heart Start                                         | APC                    | F/C            | F/C          | F/C                             | MS                          | Ofs to Sgts Mess            |
| SUN | 5            | F/C                                                            | F/C                    | Walk           | Drill        | Progressive Subject : Drill/SAA | MS,CG,KS                    | Re Badging Parade Rehearsal |
| MON | 6            | F/C                                                            | F/C                    | Walk/First Aid | Ranges       | Main Island Fun Day/HBQ         | DLL,JM,VC,CG,IL,K<br>S,NMaC | Re Badging/Ofs Dinner Night |
| TUE | 7            | Ranges/APC/Heart Start                                         | Fun Day                | Ranges         | Ranges       | Progressive subject: Drill      | DLL,JM,VC,CG,IL,K<br>S,NMaC | Sgts Mess Dinner            |
| WED | 8            | APC                                                            | Ranges/APC             | First Aid      | Fun Day      | Progressive subject: Drill      |                             | 3/4 Star to Sgts Mess       |
| THU | 9            | APC Testing                                                    | APC Testing            | APC Testing    | Parade       | Command Tasks/Parade            |                             | Disco                       |
| FRI | 10           | Battalion Inter Company Mil Skills Competition                 |                        |                |              |                                 |                             |                             |
| SAT | 11           | Travel                                                         |                        |                |              |                                 |                             |                             |
|     |              |                                                                |                        |                |              | BN HQ                           |                             | Camp Admin & Accom Insp     |

**Notes.**

- 1 Training is not to start until after all admin is completed. (Routine is to be as follows: Reveille 0645: B/F 0700-0800: Room Insp 0830: Muster 0845: Trg 0900.
- 2 Every evening there is to be a period of hygiene consisting of showers and inspections of feet and clothing for next days activities.
- 3 Training is to continue up to 2100hrs unless an alternative activity has been arranged.
- 4 All are to participate fully in the fun day activities. (Including: Sand Surfing: Horse Riding: Sea Safari: Laser Shooting)
- 5 Cadre Commanders are to ensure that all Ofcs and AIs are programmed for at least one days rest.
- 6 Attached Personnel Brief by CEO on Sun 29th July at 1000hrs.
- 7 Full Bore Range- 1000-1600hrs

Evening Activities  
Climbing Wall: Sports Hall Activities  
Visits: Fire Station: Drones  
Movie  
Golf

2nd Battalion the Highlanders ACF 2 Star Cadre -  
Field Craft Exercise

**2<sup>nd</sup> Battalion the Highlanders ACF 2 Star Cadre - Wed 1<sup>st</sup> Aug 2007**

| Serial<br>(a) | Time<br>(b) | Subject<br>(c) | Location<br>(d) | Dress<br>(e) | Instructor<br>(f) | Remarks<br>(g) |
|---------------|-------------|----------------|-----------------|--------------|-------------------|----------------|
| 1             | 0645-0730   | Reveille       | Accommodation   | Sports Kit   | BOS               |                |
| 2             | 0730-0830   | Breakfast      | Mess            |              | BOS               | In             |
| 3             | 0845-0900   | Muster         | Square          |              | OC / SMI          |                |
| 4             | 0900-0930   | Fun Day        |                 |              |                   |                |
| 5             | 0930-1000   | Fun Day        |                 |              |                   |                |
| 6             | 1000-1030   | Fun Day        |                 |              |                   |                |
| 7             | 1030-1045   | Naafi          | Mess            |              | Naafi Staff       |                |
| 8             | 1045-1120   | Fun Day        |                 |              |                   |                |
| 9             | 1120-1155   | Fun Day        |                 |              |                   |                |
| 10            | 1155-1230   | Fun Day        |                 |              |                   |                |
| 11            | 1230-1330   | Lunch          | Mess            |              | Q Staff           | Packed         |
| 12            | 1330-1405   | Fun Day        |                 |              |                   |                |
| 13            | 1405-1440   | Fun Day        |                 |              |                   |                |
| 14            | 1440-1515   | Fun Day        |                 |              |                   |                |
| 15            | 1515-1530   | Naafi          | Mess            |              | Naafi Staff       |                |
| 16            | 1530-1605   | Fun Day        |                 |              |                   |                |
| 17            | 1605-1645   | Fun Day        |                 |              |                   |                |
| 18            | 1645-1720   | Fun Day        |                 |              |                   |                |
| 19            | 1730-1830   | Dinner         | Mess            |              | Q Staff           | In             |
| 20            | 1830-1905   | Bank           | Classroom       | Civies       | Squad Instructors |                |
| 21            | 1905-1940   | Disco          | Mess            | Civies       | BOS               |                |
| 22            | 1940-2100   | Disco          | Mess            | Civies       | BOS               |                |

W02 | HAY TSANE

03 AUG 2007

51 HIGHLAND BDE

**2<sup>nd</sup> Battalion the Highlanders ACF 2 Star Cadre - Thur 2<sup>nd</sup> Aug 2007**

| Serial<br>(a) | Time<br>(b) | Subject<br>(c)               | Location<br>(d) | Dress<br>(e) | Instructor<br>(f) | Remarks<br>(g)               |
|---------------|-------------|------------------------------|-----------------|--------------|-------------------|------------------------------|
| 1             | 0645-0730   | Reveille                     | Accommodation   | Combats      | BOS               |                              |
| 2             | 0730-0830   | Breakfast                    | Mess            | Combats      | BOS               | In                           |
| 3             | 0845-0900   | Muster                       | Square          | Combats      | OC / SMI          |                              |
| 4             | 0900-0930   | Cadet Brief                  | Square          | Combats      | Coy Trg Off       |                              |
| 5             | 0930-1000   | Pack Kit                     | Accommodation   | Combats      | Squad Instructors | Drivers to collect transport |
| 6             | 1000-1030   | Move to Range Head           | Square          | Combats      | Drivers           |                              |
| 7             | 1030-1045   | Naafi                        | Range Head      | Combats      | BTT CQMS          |                              |
| 8             | 1045-1120   | Kit Issue                    | Range Head      | Combats      | BTT CQMS          |                              |
| 9             | 1120-1155   | Kit Issue                    | Range Head      | Combats      | BTT CQMS          |                              |
| 10            | 1155-1230   | Kit Pack                     | Range Head      | Combats      | Squad Instructors |                              |
| 11            | 1230-1330   | Lunch                        | Range Head      | Combats      | BTT CQMS          | Cont                         |
| 12            | 1330-1405   | Issue and prep of Route Card | Range Head      | Combats      | Coy Trg Off       |                              |
| 13            | 1405-1440   | Prep of Route Card           | Range Head      | Combats      | Squad Instructors |                              |
| 14            | 1440-1515   | Issue Orders                 | Range Head      | Combats      | Coy Trg Off       |                              |
| 15            | 1515-1530   | Naafi                        | Range Head      | Combats      | BTT CQMS          |                              |
| 16            | 1530-1605   | Rehearsals                   | Range Head      | Combats      | Squad Instructors |                              |
| 17            | 1605-1645   | Rehearsals                   | Range Head      | Combats      | Squad Instructors |                              |
| 18            | 1645-1720   | Rehearsals                   | Range Head      | Combats      | Squad Instructors |                              |
| 19            | 1730-1830   | Dinner                       | Range Head      | Combats      | BTT CQMS          | Cont                         |
| 20            | 1830-1905   | Rehearsals                   | Range Head      | Combats      | Squad Instructors |                              |
| 21            | 1905-1940   | Rehearsals                   | Range Head      | Combats      | Squad Instructors |                              |
| 22            | 1940-2100   | Rehearsals                   | Range Head      | Combats      | Squad Instructors |                              |

41021 HAY TSA NE

03 AUG 2007

51 HIGHLAND BDE

# 2<sup>nd</sup> Battalion the Highlanders ACF 2 Star Cadre - Fri 3<sup>rd</sup> Aug 2007

| Serial<br>(a) | Time<br>(b) | Subject<br>(c)              | Location<br>(d) | Dress<br>(e) | Instructor<br>(f) | Remarks<br>(g) |
|---------------|-------------|-----------------------------|-----------------|--------------|-------------------|----------------|
| 1             | 0645-0730   | Reveille                    | Range Head      | Combats      | BOS               |                |
| 2             | 0730-0830   | Breakfast                   | Range Head      | Combats      | BOS               | Cont           |
| 3             | 0845-0900   | Muster                      | Range Head      | Combats      | OC / SMI          |                |
| 4             | 0900-0930   | Move to Trg Area            | Loch Sgiopoint  | Combats      | Drivers           |                |
| 5             | 0930-1000   | Move to Harbour Area        | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 6             | 1000-1030   | Move to Harbour Area        | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 7             | 1030-1045   | Naafi                       | Loch Sgiopoint  | Combats      | BTT CQMS          |                |
| 8             | 1045-1120   | Occupation of Harbour Area  | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 9             | 1120-1155   | Occupation of Harbour Area  | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 10            | 1155-1230   | Occupation of Harbour Area  | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 11            | 1230-1330   | Lunch                       | Loch Sgiopoint  | Combats      | BTT CQMS          | Cont           |
| 12            | 1330-1405   | Judging Distance            | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 13            | 1405-1440   | Target Recognition          | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 14            | 1440-1515   | Fire Control Orders         | Loch Sgiopoint  | Combats      | Coy Trg Off       |                |
| 15            | 1515-1530   | Naafi                       | Loch Sgiopoint  | Combats      | BTT CQMS          |                |
| 16            | 1530-1605   | Use of Cover                | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 17            | 1605-1645   | Firing from other Positions | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 18            | 1645-1720   | Patrolling                  | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 19            | 1730-1830   | Dinner                      | Loch Sgiopoint  | Combats      | BTT CQMS          | Cont           |
| 20            | 1830-1905   | Patrol Orders               | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 21            | 1905- 1940  | Rehearsals                  | Loch Sgiopoint  | Combats      | Squad Instructors |                |
| 22            | 1940-2300   | Patrol                      | Loch Sgiopoint  | Combats      | Squad Instructors |                |

W02 I HAY TSANE

03 AUG 2007

51 HIGHLAND BDE

Letter requesting the gifting of vessels

# 2<sup>nd</sup> Battalion the Highlanders Army Cadet Force

The Cadet Training Centre  
Rocksley Drive  
Boddam  
Aberdeenshire AB42 3BA

Tel: 01779 41311  
Fax: 01779 41360

CEO: [REDACTED]  
AO: [REDACTED]



Ref:2 hldrs /CEO 008

[REDACTED]

As requested the information in relations to the gifting of boats to our unit

Our unit ID is T0343A

As Discussed we would be grateful if your organisation can donate to our unit, One mark one rigid raider and One mark 2 rigid raider with trailers where possible.

The boats are going to be used as safety boats allowing us to conduct our adventurous trg, in accordance to regulations.

We understand that the boats will be gifted to our unit and have to be maintained and services by means of our units own funds, and will not be maintained through the military system.

Maj.CEO.

Defence Instructions and Notices -  
Selection of Water Safety Equipment

# DEFENCE INSTRUCTIONS AND NOTICES

(Not to be communicated to anyone outside HM Service without authority)

**Title:** Water Safety Equipment Management – the selection of Life Jackets and Buoyancy Aids for Operational, Training and Recreational Waterbourne Activities

**Audience:** (All – used to be a DCI GEN) Service Personnel, Reservists, MOD Civilians, MOD Sponsored Cadet Forces

**Applies:** Immediately

**Expires:** December 2007

**Reference:** 2006DIN04-060

**Released:** May 2006

**Channel:** 04 - Logistic support, equipment and materiel

**Content:** The selection and use of non-aircrew lifejackets and buoyancy aids by Service Personnel and MOD Civilians

**Sponsor:** MWABIPT SSET

**Contact:**

**ANNEX A – SELECTION OF WATER SAFETY EQUIPMENT**

**NOTE – Unless otherwise stated you should not jump from more than 4.5metres wearing an inflated lifejacket**

| Life Jacket or Buoyancy Aid      | Technical Specification                                                                                                                                                                                                                                   | Suitable for                                                                                                                                                                                                                    |           | Notes & Warnings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  |                                                                                                                                                                                                                                                           | Operation or Activity                                                                                                                                                                                                           | Personnel |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| General Service Life Jacket Mk.4 | Military specific 169N lifejacket<br>Oral inflation single chamber<br>Does not comply with SOLAS<br>Whistle<br>Manually activated light<br>Buddy line<br>Spray hood.<br>Can be worn fully inflated for a Maximum jump height of 18.3 metres.              | Abandon ship<br><br>Can be worn for light jack-stay transfers between ships.                                                                                                                                                    | Military  | a. Does not comply with SOLAS. As such should not be worn by civilians unless SOLAS compliant life jackets are unavailable (for example during disaster relief).<br>b. Carried by RFAs. RFA crew use during military operations. Currently RFAs also carried solid foam lifejackets to comply with SOLAS.<br>c. 155% carried onboard. This comprises of 100% personnel issue plus 55% contingency.<br>d. Designed to be carried at all times when command dictates.                                                                                |
| Hazardous Duty Life Jacket Mk.   | Military specific 169N gas inflated lifejacket<br>Automatic activation gas inflated single buoyancy chamber life jacket<br>Does not comply with SOLAS<br>Whistle<br>Buddy line<br>Automatically activated light<br>Bib valise<br>Sprayhood                | Work wear life jacket to be worn when activities or conditions dictate that there is a hazard of inadvertent entry into the water.<br><br>Boat crews and military passengers.                                                   | Military  | a. Does not comply with SOLAS. Should not be worn by civilians unless SOLAS compliant life jackets are unavailable (for example during disaster relief).<br>b. Safety harness should never be worn over the inflatable elements of the life jacket.<br>c. Automatic inflation can be rendered manual with the use of a blanking cap. This only guarantees manual operation in surf, at depth life jacket may still "fire".<br>d. For the Pacific 24 crew are to wear HDLJs with Mk.9 (manual only) operating heads fitted until TCLJ is available. |
| Landing Craft Life Jacket        | Military specific 260N lifejacket<br>Automatic activation gas inflated single chamber.<br>Waistcoat construction.<br>Whistle<br>Buddy line<br>Reflective patches which can be concealed.<br>Light, can be concealed<br>Crutch strap<br>Comes in two sizes | Boarding parties<br>Weapons crews<br>Boat crews<br>Mexaflores crews<br>Landing Craft crews<br><br>General working over water in an operational environment<br><br>Activities where HDLJ is not suitable due to lack of buoyancy | Military  | a. Does not comply with SOLAS. As such should not be worn by civilians unless SOLAS compliant life jackets are unavailable (for example during disaster relief).<br>b. Safety harness should never be worn over the inflatable elements of the life jacket.<br>c. Automatic inflation can be rendered manual with the use of a blanking cap. This only guarantees manual operation in surf, at depth life jacket may still "fire".                                                                                                                 |

## ANNEX A – SELECTION OF WATER SAFETY EQUIPMENT

**NOTE – Unless otherwise stated you should not jump from more than 4.5metres wearing an inflated lifejacket**

| Life Jacket or Buoyancy Aid                                                                         | Technical Specification                                                                                                                                                                                                                                                                                                 | Suitable for                                                                                                                                                                                                                                            |           | Notes & Warnings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                     |                                                                                                                                                                                                                                                                                                                         | Operation or Activity                                                                                                                                                                                                                                   | Personnel |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Assault Troop Life Jacket (ATLJ)<br><br>Also includes RAF Combat Troop Life Preserver (see note e). | Military Specific.<br>Manually activated gas inflated life jacket.<br>498N Buoyancy<br>Designed for quick release once on shore.<br>Crutch strap<br>Fitted with spray-hood.<br>Whistle<br>Buddy line<br>Concealable reflective surfaces and light.                                                                      | Military operations where high buoyancy life jackets are most appropriate.<br><br>Operations in surf or shallow water.<br>For example:<br>Landing Craft<br>Military boats<br>Military Helicopters<br>Helicopter boarding parties<br>Stretcher transfers | Military. | a. Must never be worn by minors or those weighing less than 45kgs. For light adults guidance must be obtained from MWABSSET.<br>b. Not suitable for civilian use, the ATLJ does not comply with either SOLAS or EU requirements.<br>c. Will allow the carriage of additional equipment (heavy equipment and/or heavy/buoyant backpack). Extra weight estimated at 45kgs. This is dependant on build of person and the nature of equipment being carried. For further guidance contact MWABSSET.<br>d. The ATLJ was not designed for deep-sea use and should only be used in this environment if more appropriate lifejackets are unavailable.<br>e. RAF CTLPs are all being converted to the ATLJ Mk 4 specification. The CTLP is being phased out.<br>f. Safety harness should never be worn over the inflatable elements of the life jacket. |
| Buoyancy Aid – “Centre”                                                                             | Meets EN393 for Buoyancy Aids (CE marked)<br>Available as either 50N or 80N.<br>80N is being phased out.<br>Available in three sizes (child to adult)<br>Solid foam waistcoat construction.<br>Currently with crotch strap – this is being phased out on new buoyancy aids.<br>May or may not be fitted with a whistle. | Adventurous Training and Recreational Activities, for example:<br><br>Canoeing<br>Kayaking<br>Sailing<br>Rowing<br>Jetskiing<br>Water-skiing<br>Power boats<br>Wind surfing<br>Ravine/Gorge walking                                                     | All       | a. Users must be swimmers. Buoyancy aids are designed for use by swimmers in sheltered waters where aid is available.<br>b. Suitable for use up to and including Cat 6 waters.<br>c. Equipment recommended by the Activity’s particular Governing Body is also suitable. MWABSSET should be contacted to discuss requirements not met by standard range.<br>d. Maritime Coastguard Agency Code of Practice requires that a lifejacket is provided for each seat in commercial boats being used for sport or pleasure operating in Category C or higher waters (this is deemed to include MOD owned vessels). Buoyancy aids will not meet this requirement.<br>e. It is important that the buoyancy aid fits correctly. Loose buoyancy aids are of little use regardless of whether or not they have a crotch strap.                            |

Risk Assessment Camp 07/001

|                                                                                                              |                                                                                                                |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1. GENERAL                                                                                                   |                                                                                                                |
| Assessment No.                                                                                               | CAMP 07/001                                                                                                    |
| Assessed by:                                                                                                 | CEO                                                                                                            |
| Date of Assessment:                                                                                          | 28/7/07                                                                                                        |
| Department or Group:                                                                                         | Adventure Training /Watermanship<br>Safety boat activities.                                                    |
| Location:                                                                                                    | BENBECULA LOCH CARRON                                                                                          |
| Task or Activity Assessed:                                                                                   | POWER BOAT<br>ACTIVITIES                                                                                       |
| 2. Hazards.                                                                                                  |                                                                                                                |
| Are there any hazards likely to effect health and safety? Yes                                                | 1. Water (drowning)<br>2. Boat (propeller Injury)<br>3. Cold (hypothermia)<br>4. Slipway Fall<br>5.<br>6.      |
| 3. Risks.                                                                                                    |                                                                                                                |
| Is the likelihood of the hazard(s) causing Actual harm? Yes<br><br><br><br><br>Low<br><br>Medium<br><br>High | 1. Drowning (High)<br>2. Propeller Injury (High)<br>3. Hypothermia (High)<br>4. Slipway Fall (Low)<br>5.<br>6. |

|                                                                                                          |                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. Risk Assessment                                                                                       |                                                                                                                                                                                                                                                                                   |
| <p>Is the likelihood of the hazard and the risk coming together:</p> <p>Low</p> <p>Med.</p> <p>High.</p> | <p>1. Medium</p> <p>2. Medium</p> <p>3. Medium</p> <p>4. Low</p> <p>5.</p> <p>6.</p>                                                                                                                                                                                              |
| <p>Can the hazard (s) be removed?</p> <p>Yes?</p> <p>No?</p>                                             | <p>1. No</p> <p>2. No</p> <p>3. No</p> <p>4. No</p> <p>5.</p> <p>6.</p>                                                                                                                                                                                                           |
| <p>Can the risk (s) be removed?</p> <p>Yes?</p> <p>No?</p>                                               | <p>1. Yes</p> <p>2. Yes</p> <p>3. Yes</p> <p>4. No (but reduced)</p> <p>5.</p> <p>6.</p>                                                                                                                                                                                          |
| 5. Control                                                                                               |                                                                                                                                                                                                                                                                                   |
| <p>Can the hazard (s) be controlled by:</p> <p>A change in process, equipment or environment?</p>        | <p>1. Yes Life jackets worn</p> <p>2. <del>Yes Propeller guard fitted</del> </p> <p>3. Yes Protective clothing worn</p> <p>4. Yes Care taken on slipway, safety brief</p> <p>5.</p> <p>6.</p> |

|                                                                                                                                               |                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Can the hazard(s) be controlled by:                                                                                                           | 1.No.                                                                                                   |
|                                                                                                                                               | 2.No.                                                                                                   |
|                                                                                                                                               | 3.No.                                                                                                   |
|                                                                                                                                               | 4.No.                                                                                                   |
| A change in working methods?                                                                                                                  | 5.                                                                                                      |
|                                                                                                                                               | 6.                                                                                                      |
| Can the risk(s) be controlled by:                                                                                                             | 1.Yes.                                                                                                  |
|                                                                                                                                               | 2.No. (But boat safety equipment fitted)                                                                |
|                                                                                                                                               | 3.Yes.                                                                                                  |
| Personal Safety/Protective equipment?                                                                                                         | 4.Helped not removed (non slip soles)                                                                   |
|                                                                                                                                               | 5.                                                                                                      |
|                                                                                                                                               | 6.                                                                                                      |
| Can the risk(s) be controlled by:                                                                                                             | 1.Yes                                                                                                   |
|                                                                                                                                               | 2.Yes                                                                                                   |
|                                                                                                                                               | 3.Yes.                                                                                                  |
| Information, training or instruction?                                                                                                         | 4.No, (but reduced by awareness)                                                                        |
|                                                                                                                                               | 5.                                                                                                      |
|                                                                                                                                               | 6.                                                                                                      |
| 6. Additional Information                                                                                                                     |                                                                                                         |
| a. Weather<br>b. Sea State<br>c. Level of trained people<br>d. Number of trained people<br>e. Boat type and quantity<br>f. Number of students | AS PER MAX<br>LV <del>AS</del> INTERMEDIATE<br>MIN REQUIREMENTS<br>RIGID RAIDER 1/2<br>BOT CAPACITY MAX |

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. Emergency Procedures                               |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Are there clear emergency procedures?                 | Yes! Covered in the safety brief also covered in Instruction and Training                                                                                                                                                                                                                                                                                                                           |
| Yes?                                                  |                                                                                                                                                                                                                                                                                                                                                                                                     |
| No?                                                   |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Is the Crew /Trainees aware of the safety procedures? | Yes! Safety brief at the start of each activity.                                                                                                                                                                                                                                                                                                                                                    |
| Yes?                                                  |                                                                                                                                                                                                                                                                                                                                                                                                     |
| No?                                                   |                                                                                                                                                                                                                                                                                                                                                                                                     |
| 8. Actions.                                           |                                                                                                                                                                                                                                                                                                                                                                                                     |
| What immediate action should be taken?                | <ol style="list-style-type: none"> <li>1 All informed by radio/pa.</li> <li>2. All activities immediately stop</li> <li>3. Safety boat commander takes control</li> <li>4. Follow instructions from safety boat commander</li> <li>5. Give first aid if required</li> <li>6. Get Casualties safely to shore ASAP</li> <li>7. Call 999 if required.</li> </ol>                                       |
| What monitoring procedures are in place?              | <ol style="list-style-type: none"> <li>1. Dry trg. Before each activity.</li> <li>2. Safety Kit inspection and maintenance regime in place</li> <li>3. Operators certificates of qualification held in HQ</li> <li>4. All Risk assessments kept at HQ</li> <li>5. Weather always obtained before activities</li> <li>6. Competence of crews never acceded beyond qualified capabilities.</li> </ol> |

|                                    |                |
|------------------------------------|----------------|
| Assessment Completed? (Date /time) | 28 / JULY / 07 |
| Completed by? Sign and Print Name  | CEB            |
| Date Filed                         | END OF CAMP    |

Heel Test Information Document

# HEEL TEST INFORMATION DOCUMENT

## FOR PASSENGER SHIPS OF CLASSES V, VI & VI(A)

Page 1

Vessel : RIGID RAIDER MK II -

Length : ..... Metres

Freeboard

Freeboard mm =  $380 + 380 \times (L - 6.0) / 12.3$  ..... mm  
 Not less than 380 and not more than 760

Fuel Tank(s) Full / Weight to make up .....  
 Stores Full / Weight to make up .....  
 Other (state) GPMG Ammo ( 3 boxes ) 10 + 40 Kg  
 Crew Number .....  
 Passengers at 75kg each (W) 12 Marine Commandos

Heeling Moment =  $1/12$  weight of passengers W times extreme breadth B of vessel

=  $W \times B / 12 = 12 \times 2.385$  (person metres) 28.62 p m

Heeling moment per shift =  $W B / 36$  0.795 p m

Mass of each weight (m) (one person) ..... kg

Distance to move weights (d) 0.795.... metres

No of weights =  $(W B / 36) / d \times m$  .....  
 Adjust d to get whole number of weights

|           | Freeboard Port | Difference | Freeboard Stb. | Difference |
|-----------|----------------|------------|----------------|------------|
| Upright   | 345 mm         | ---        | 425            | ---        |
| 1st shift | 310            | 35         | 455            | 30         |
| 2nd shift | 280            | 30         | 495            | 40         |
| 3rd shift | 246            | 34         | 525            | 30         |
| Upright   | 345            | ---        | 425            | ---        |
| 4th shift | 379            | 34         | 390            | 35         |
| 5th shift | 408            | 29         | 355            | 35         |
| 6th shift | 445            | 37         | 325            | 30         |
| Upright   | 340            | ---        | 420            | ---        |

Distance between freeboard battens 2.580 metres

| Angle of Heel            |   |                                 |   |         |
|--------------------------|---|---------------------------------|---|---------|
| Difference in Freeboards |   |                                 |   |         |
| To 3rd shift             | P | 99                              | S | 100     |
| To 6th Shift             | P | 100                             | S | 100     |
| Mean                     | P | 99.5                            | S | 100     |
| Sum of Means P + S       |   | 199.5                           |   |         |
| Tangent of Angle         |   | Sum of Means / Distance between |   | 0.07732 |
| Angle of Heel (Degrees)  |   | Tan Ang x 57.2958               |   | 4.43    |

# HEEL TEST INFORMATION DOCUMENT

## FOR PASSENGER SHIPS OF CLASSES V, VI & VI(A)

Page 2

If the angle of heel produced by a heeling moment of  $W B / 12$  is not more than 7 degrees then the Stability is satisfactory.

If the angle of heel produced by a heeling moment of  $W B / 12$  is more than 7 degrees then the owner should be given the opportunity to add ballast and/or reduce the passenger numbers.  
The minimum freeboard calculated on page 1 still needs to be adhered to.

### Lightweight Freeboard Check

| Lightweight condition freeboards for five yearly lightweight check |     |             |                                      |     |                                      |
|--------------------------------------------------------------------|-----|-------------|--------------------------------------|-----|--------------------------------------|
| Port freeboards                                                    |     |             | Starboard freeboards                 |     |                                      |
| Aft                                                                | Mid | Fwd         | Aft                                  | Mid | Fwd                                  |
| 325                                                                |     | 688         | 415                                  |     | 735                                  |
| The exact location should be recorded. eg x mm aft of y            |     |             |                                      |     |                                      |
| Fwd quarter                                                        |     | Fwd quarter | Gunwale at transom side intersection |     | Gunwale at transom side intersection |

Above with Yamaha 200Hp outboard, fuel / water in tanks (1/3 full)

|             |                       |
|-------------|-----------------------|
| Surveyor :  | Date : 22 August 2007 |
| Signature : | Place : Faslane       |



Created by C L Davey Glasgow MO September 2000

Small Scale General Arrangement

LIGHTWEIGHT / HEEL TEST HISTORY PAGE