



**Defence
Safety
Authority**

Defence Ranges Safety Committee Working
Group
Secretary

Defence Safety Authority

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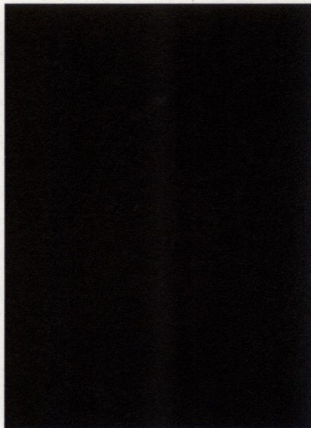
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1 Apr 16

**MINUTES OF THE 2nd MEETING OF THE DEFENCE RANGES SAFETY COMMITTEE
WORKING GROUP HELD AT WATERLOO LINES, WARMINSTER ON WED 9 MAR 16**

Present:



DSA DOSR PRG Asst TL Chairman
CESO (A) Trg Safety
DIO SD Trg - SO1 Trg Safety
DSA DOSR Ch RSIT
DSA DAIB (L) Snr Ops
Army Cap-Cbt-SASC-SO2
DES Wpns DOSG WS1r
JHC CI Wpns SO3
MDP
DES Wpns DOSG ST5
DES Wpns DOSG MLST
RAF ESIT
DSA DOSR PRG1a Secretary

In Attendance:



CDCS OS
OC 1UKXX OSTT (SO2 HQ SASC (Des))
RC Ops Engt Trg LTAR
DIO SD Trg TAS
TEST PT
51X LTAR

Apologies:



DIO SD Trg - TAS Tech Offr
DSA DAIB SO3 Trg Safety
RNRSO
Air 38Gp - Expl Safety SO3
College of Policing
TEST PT
RAF ESIT

Item 1 – Introductions

1. The Chairman welcomed everybody to the meeting and accepted apologies for absence. He explained that this was the first meeting that combined both DRSWG and the Military Laser Safety Review Panel (MLSRP).

Item 2 – Minutes of the 17th MLSRP previous meeting

2. The minutes of the 17th MLSRP Meeting were accepted as a true and accurate record.

Item 3 – Matters arising from 17th MLSRP Meeting

3. Actions and on-going items from the 17th MLSRP Meeting were reviewed:

a. **Action MLSRP/1110/9.** Approach ██████████(ST5) regarding a review of the Probabilistic Risk Assessment (PRA) PA coding for MoD internal verification (i.e. to check that coding is maintainable using MoD resources). **On-going.**

**Action MLSRP/1110/9
MLSRP Sec**

b. **Action MLSRP/1110/11.** Create an adjusted laser eye protection report using ██████████ report as reference to submit to the MLSRP members for endorsement. **On-going.**

**Action MLSRP/1110/11
MLSRP Sec**

c. **Action MLSRP/1111/2.** A bigger pool of questions for the test is needed and statistics on performance of the test results should be kept. This has now been implemented within the syllabus of the Laser Safety Officers Course. **Closed.**

d. **Action MLSRP/17/01.** ██████████ to send out a copy of the ISH to the panel. Actioned 14 Sep 15. **Closed.**

e. **Action MLSRP/17/02.** ██████████ to send out a copy of the Ocular Damage presentation with the minutes. **Closed.**

f. **Action MLSRP/17/03.** ██████████ to send out a copy of the current draft of STANAG 3606 to panel members. **Closed.**

4. **Laser Safety Officers Course.** ██████████ informed the committee that the Laser Safety Officers Course (LSO) was still being conducted at DAUK Shrivenham but it is proposed to conduct a service recognised endorsed course through Safety Training Squadron, RAF Haltern.

5. **Laser Risk Register.** Sec DRSCWG asked that the Laser Risk Register be combined with the DRSC Risk Register.

a. **Decision.** Sec MLSRP was tasked to provide Sec DRSCWG with a copy of the latest version of the Laser Risk Register.

**Action 02/01
MLSRP Sec**

Item 4 – Minutes of the 1st DRSCWG Meeting

6. The minutes of the 1st DRSCWG Meeting were accepted as a true and accurate record.

Item 5 – Matters arising from 1st DRSCWG Meeting

7. Actions and on-going items from the 1st DRSCWG Meeting were reviewed:

a. **Action 08/05.** Mobile Air Rifle Ranges. TO TAS is requested to produce documentation detailing the recommended muzzle to target distance for the TS25 6.6 Target Screen and Pellet Catcher. **Closed.**

b. **Action 09/05.** Trial of New MoD Form 1057. LRSSC authorised TAS Tech Officer to develop and trial new format which would then have a new title. [REDACTED] updated the committee on the development of the revised MoD Form 1057. He asked that all observations and recommendations be submitted to him no later than 31 Mar 16. **On-going.**

**Action 09/05
TO TAS**

c. Mr P Lane briefed the committee on the draft version of the revised MoD Form 1057. The 1057 is to become a through life document and composes of several parts:

(1) Part 1 – Siting board.

(2) Part 2 – BOO formed of an independent chair, RAO, RAU, any other SME's as required.

(3) Part 3 – Changes to the range. It was suggested that, on change of RAU, the DRSC number should be retained and all the documentation including the range file should be passed to the receiving RAU.

(4) Part 4 – Closure.

d. **Action 01/01.** JSP 403 Vol 2. Committee tasked Sec to contact DSA to scope the possibility of converting JSP 403 Volume 2 to a GSP. Sec informed the committee that the format of JSP 403 including Volume 2 to Defence Safety Regulatory Publications (DSRPs) supported by Regulatory Articles (RAs) and Regulatory Guidance (RG) is to be implemented. **Closed.**

e. **Action 01/02.** Draft RSPL 16-02. Sec to circulate final draft to Stakeholders before issue to wider range community. Sec explained that this had been completed and presented the final draft version of the RSPL for approval of all members. [REDACTED] commented that he disagreed that for Operational Training Ranges Emerging that no DRSC number is allocated for a period of up to 6 months. It was explained that the RSPL reflected current regulation as prescribed in JSP 403 Volume 1 and that if there was disagreement with regulation, a formal change proposal should be submitted to Sec DRSCWG.

(1) **Decision.** All members of DRSCWG formally agreed with the final draft version of RSPL 16 – 01, Overseas Out of Area Live Firing Aide Memoire. Sec was tasked to publish the RSPL to the wider range community. **Closed.**

Sec Note: RSPL 16-01 Overseas Out of Area Live Firing Aide Memoire published on DRSC Website, Defence Intranet on Fri 10 Mar 15.

Item 6 – DRSC Risk Register

8 Sec presented the current version of the DRSC Risk Register in particular Risk ID 10117 Members of the public inadvertently entering MoD Ranges, Range

Danger Areas was upgraded to High Severity due to the increased reported cases across the MoD.

Item 7 – WDALab Report.

9. [REDACTED] informed the committee that he completed the survey of the German Mandalay ranges and the Approved Range Status (ARS) has been submitted to the RAU. A copy of the WDALab Priorities Version 1 can be found at DRSCSWG Minutes.

10. He briefed the committee that there was a 300m range being developed for the Isle of Man government. He also confirmed that WDALab was being used to design the range.

11. **Photo-voltaic Panels.** [REDACTED] raised the potential issue of mechanical resistance of the photo-voltaic panels being put into Gallery Range danger areas. This is something that may come in under third party income generation.

- a. The resistance of the panels would need to be known.
- b. WDALab could model potential damage on a range specific basis if the above data was known.

Item 8 – TWG Report.

12. **Onion Range – Falkland Islands.** [REDACTED] stated that the splitting of Onion Range into 2 smaller ranges - East and West was best kept as one single area, with Range Control being responsible for de-conflicting the training activities as necessary (movement boxes etc) and allowing the traces to overlap each other if needs be. There is no requirement for any extra 906As. Each RCO, running their own separate unit LF events, should sign in and out, on separate lines in the existing range log, and include the details of their own specific planning traces in the (dd) Remarks column. In the event of two units using Onion Range simultaneously, it is strongly recommended that Range Control issues a Daily Range Summary for the duration of the shared use, rather than a weekly schedule

13. **Range Danger Area Mapping.** [REDACTED] stated that RAU's are encouraged to produce maps showing areas of high, medium, and low risk of UXO. The colours used to designate these areas are up to the units, however, EOC team encourage the use of the traffic light system. This map is to assist range control when planning activities in the danger area.

14. **Lead in Air.** The TWG discussed ventilation inspections. The question of who was competent to conduct them and what standards were required.

- a. For low use ranges, [REDACTED] stated that the basic requirement was that the system worked, as lead pollution was controlled through the cleaning regime. It was then discussed whether or not the inspections that were being undertaken in some regions were required. It was suggested that if it was not required (low use ranges only) then get rid of the inspection.
- b. As for the inspection regime, it would come under the Works Technical Inspection and that a competent person would inspect the ventilation system to the requirements specified by the systems manufacturer.

c. Inspections should be marked in the 906 as with other inspections.

d. It was considered that there should be more clarity on who is a competent person.

15. **No Danger Area Ranges.** [REDACTED] raised concern over the application of No Danger Area (NDA) range principles on LFTTA's, due to the lack of control of the weapon over that on a fixed range. It was concluded that LFTTA cannot be classified as NDA.

16. **Dry Training Areas.** [REDACTED] raised the issue that Dry Training Areas (DTA) are not covered in JSP 403. Currently DIO are going through the requirement for what is considered a safe place for a DTA, and that whatever comes out would then be considered best practice for non-DIO DTA. The SOI for DTA will consider that the site specific risk assessment is key and that there will be no 'standard solution' as the sites vary.

17. It is considered that one of the biggest issues will be bye-laws. There is a question of whether it will feed into JSP 403 or if not who will own the problem – the main problem being OME (for example trip flares). It was considered that JSP 403 is primarily for live fire and hence not suitable for DTA. There was a discussion of DSA providing regulation requiring the site specific risk assessment. Chairman DRSCWG questioned that if there is no assurance, how is the regulation going to be enforced.

Item 9 – AOB

18. **Civilian Clubs – Fire with movement.** [REDACTED] stated that within DIO, the practice involving fire with movement for Civilian Gun Clubs was prohibited, but current regulation within JSP 403 does not restrict it. The committee agreed that this should apply for all MoD ranges for the following reasons:

- a. Safety – civilian weapons are not subject to a Safe, Suitable for Service (S3) process as all In-Service weapons. If a weapon was dropped there is no guarantee that the weapon would not function.
- b. Safety – not all civilians are capable of maintaining control of a weapon after a run down.
- c. Culturally – civilian gun clubs should not be carrying out para military style training on MoD ranges.

(1) **Decision.** Sec was tasked to produce a draft a change proposal, prohibiting the practice of civilian gun clubs firing practices involving fire with movement for consideration of at the next DRSC meeting.

Action 02/02
Sec

19. **Temporary Closed Ranges – Independent Inspections.** [REDACTED] stated that a range that is Temporary Closed during an Independent Inspection the range is not inspected and the Cover Sheet from Sections 1-3 is completed by the Inspector. He recommended that the range would still be inspected despite not meeting the criteria prescribed for it. It was agreed by the committee that this would be by agreement of the LTAR and RSIT Inspector but no formal report would be produced.

20. **JAVELIN Template – inclusion in Volume 2.** [REDACTED] explained that currently there are two in service JAVELIN templates (Block 0, Block 1) dependant

on which missile is being used the user must apply the appropriate template. He asked that both versions be included in JSP 403 Volume 2.

- a. **Decision.** HQ SASC are to provide Sec with details of JAVELIN templates for eventual inclusion in JSP 403 Volume 2.

Action 02/03
HQ SASC

21. **Risk Assessment Forms.** [REDACTED] commented that there was confusion within RAUs regarding the correct template to be used in the production of a Site Specific Risk Assessments. Paragraph 34 of JSP 403 Volume 1 Part 2 indicates that the form to be used is MoD Form 5010 as opposed to the direction given in Chapter 40 Military Training for Land Systems where the template is MoD Form 5015. The committee agreed that provided the RAU has conducted a Risk Assessment and conducted the five steps in carrying out a military Risk Assessment either MoD Form can be used.

- a. **Decision.** Sec was tasked to change the link in paragraph 34 of JSP 403 Volume 1, Part 1 to Chapter 40 of JSP 375.

Action 02/04
Sec

22. **Application of 200mil rule.** [REDACTED] explained that he had been approached by HQ Cadets to question why CFAVs and Cadets are not permitted to participate in the 200mil rule either as range staff or firers. [REDACTED] explained that a trial had been conducted to assess the marksmanship standards of Cadets and it was discovered that for the first 5 – 8 rounds the standard was on par with trained soldiers but this could not be maintained throughout firing. It was recommended that the reduced angle of 200mils between adjacent ranges could not be applied by CFAV, Cadets and Civilian Gun clubs using MoD ranges.

23. **60mm M6-640 Mortar Template.** [REDACTED] stated that the 60mm M6-640 Mortar template should be included in JSP 403 Volume 2. Sec tasked to update Volume 2. Sec also explained that templates for the 2" and 51mm mortars are to be removed from JSP 403 Volume 2.

24. **Range Planning System Project.** [REDACTED] informed the committee that DIO IAC has temporarily suspended the Range Planning System (RPS) Project due to funding issues. Prior to the change in commercial procedures for digital projects, there was a CIPO financial commitment, (£5m) which has now been withdrawn due to CIP rebalancing. The project is now classified as a digital project by the Cabinet Office. Process dictates that a lack of funding halts the project as new Cabinet Office Control and approvals through the Defence Design Authority require a TLB funding certificate to be in place to allow procurement through the Digital Services Framework 2.

25. There is a risk that the current manual process to plot and de-conflict Weapon Danger Areas will remain in place causing reputational harm and adverse comment, and over time regulatory action, from DSA on systems that are not considered ALARP.

26. The committee agreed that Defence will be failing to provide a modern planning tool that is considered to provide an ALARP standard. It was identified that the following Key User Requirements (KURs) will not be achieved:

- a. RPS will provide a safer tool for the user to achieve their planning objectives, in comparison to the current manual method.
- b. The modernisation of this process makes it easier for the user to produce a standardised trace and the RAU to authorise the trace.
- c. An electronic trace produced in RPS will be easily stored for audit and incident investigation purposes.

d. RPS will speed up the entire planning and authorising process, which will fall in line with the new BAMS system.

e. The effectiveness of the MCRT Project (an NTEP deliverable) will have a reduced impact without RPS; live range areas will not be displayed.

Item 10 – Valediction

27. Chairman explained that the following members of the committee are leaving on posting:

a. [REDACTED] - Army Cap-Cbt-SASC-SO2.

b. [REDACTED] - DSA DAIB Land Ops3.

He wished a note of thanks be recorded for contribution made by both.

Item 11 – Next Meeting

28. To be held at Waterloo Lines, Warminster on Wed 7 Sep 16, commencing at 1000. Next DRSC meeting 21 Apr 16.

(Original Signed)

[REDACTED]
C2 MSF
Sec
Ext 35339

Annex:

A. Action Plan 2nd DRSCWG Meeting.

Enclosures:

1. DRSC Risk Register dated 15 Mar 16.

Distribution:

RNRSO
CESO(A) Trg Safety
DIO SD Trg SO1 Trg Safety
DIO SD Trg (TAS)
RAF ESIT
DE&S TEST RM
Dstl ESR
DCbt - HQ SASC
MDP - CFI
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Copy to :

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ACTION PLAN 2nd DRSCWG MEETING

| Ser No | Item | Action | Due Date | Action Lead |
|---------------|----------------------------|--|----------|-------------|
| MLSRP/1110/09 | PRA Update | Approach ██████████ (ST5) regarding a review of the PRA PA coding for MOD internal verification (i.e. to check that coding is maintainable using MOD resources). | On-going | MLSRP Sec |
| MLSRP/1110/11 | Laser Eye Protection | Create an adjusted laser eye protection report using ██████████ report as reference to submit to the MLSRP members for endorsement. | On-going | MLSRP Sec |
| Action 09/05 | Trial of New MoD Form 1057 | LRSSC authorised TAS Tech Officer to develop and trial new format which would then have a new title. | Apr 16 | TO TAS |
| Action 02/01 | Laser Risk Register | Sec MLSRP was tasked to provide Sec DRSCWG with a copy of the latest version of the Laser Risk Register. | Mar 16 | MLSRP Sec |
| Action 02/02 | Fire with Movement | Sec was tasked to produce a draft a change proposal, prohibiting the practice of civilian gun clubs firing practices involving fire with movement for consideration of at the next DRSC meeting. | Apr 16 | Sec |
| Action 02/03 | JAVELIN Template | HQ SASC are to provide Sec with details of JAVELIN template for eventual inclusion in JSP 403 Volume 2. | Apr 16 | HQ SASC |
| Action 02/04 | MoD Risk Assessment Forms | Sec was tasked to change the link in paragraph 34 of JSP 403 Volume 1, Part 1 to Chapter 40 of JSP 375. | Apr 16 | Sec |