# Minutes of the 56<sup>th</sup> Depleted Uranium Firing Environmental Review Committee (DUFERC) Meeting held at QinetiQ MoD Eskmeals on the 21<sup>st</sup> September 2010

Present:

QinetiQ Eskmeals Capability Manager (Chairman)

QinetiQ Radiation Advisor

Dstl Environmental Sciences Department Principal Scientist

SO2 RAD (CESOA) MoD Commandant KTA

QinetiQ VJ Facility Manager

MoD SSD&C

QinetiQ Proof & Trials Clerk (Secretary)

**Apologies:** 

Apologies:

MoD TEST Team
MoD SSD&C

QinetiQ Deputy Radiation Advisor

MoD DE

QinetiQ CHSEA

QinetiQ H\$&E Assistant

#### 1. Introduction

welcomed the committee to QinetiQ MoD Eskmeals for the 56<sup>th</sup> meeting of the DUFERC.

# 2. Previous Minutes

The minutes of the 55th DUFERC Meeting were approved by the committee.

# 3. Actions Outstanding

# Action 52.2 — to produce a presentation for future firing of DU.

The presentation is in the form of a power point and has been submitted to the committee.

Stated that he has made some amendments that he would like to see in the final presentation – he will send annotated copy to

**Action Ongoing** 

Action 53.1 – (1974) to produce a 'Management and Remediation Plan" for the DU contaminated areas at KTA and present for discussion at the next meeting.

has produced a draft and hopes to have final version by end of October.

Action closed

Action 55.1. to speak to Defence Estates to clarify who is the RPA for KTA of DE has been identified as a suitable PoC.

Action ongoing

Action 54.4 - to set up the occasional contract.  In s absence advised that for of DE is currently putting case to include both the provision of an RPA and surveys at Kirkcudbrig asked if SSD&C have any input to this. replied that they are awa direct input.	ıht.
stated that the DUFERC should monitor this situation. added should also be made aware of this issue. stated that he would be	
	Action on-going.
New action 56.1. Awaiting outcome of DE Business Case received.	e – review when
Action 54.6 – to approach and request a time assessment of activity will take place. (LLW Waste inventory)	line on when the
Advised the committee that in addition to LLW arising from the decommissioning of VJ surveillance firings of DU were due to take pla and that this activity has the potential to produce LLW stated that DGM was also planning for the future disposal of CHARM advised that as was also planning for the TEST Ranges Mar in fact closed and a note advising of the LLW forecast should be sent to	ce at KTA in 2013 If rounds (DU) nager this action is
New action 56.2. to draft letter to RPPDC for next meeting.	
Action 54.8 - to receive and pass on QQ statement regardic contractor.  See new action from 54.6 (56.2)	ng LLW to MoD
	Action closed.
Action 54.10 - to update DUFERC ToR and circulate for discussed in the second s	ssion at the next
mesting.	Action closed.
Action 55.1 to speak to DE to clarify who is the RPA for KTA See 54.4	Action closed
Action 55.2 to distribute the VJ firing data with the minutes Issued with minutes.	
	Action closed
Action 55.3 to write to DE stating that there needs to be a for Eskmeals LLW inventory- Can they confirm that they are the focal p	

Action closed

See 54.6 and 54.8

Action 55.4. to circulate his sugg	estions regarding the amendments to the
DO, LINO TON.	Action closed
Action 55.5 to amend the DU firing p	resentation to reflect the DUFERC input and
	Ongoing
Action 55.6 to discuss the propos (RPA for Eskmeals) June 2010	ed (Eskmeals) sampling with
- doing extra sampling. Awaiting 3 air	samplers (BBW)
	Ongoing
DUFERC Future	
deal out of the DUFERC, particularly with re QinetiQ. He added that in his experience the DUFERC as a reliable internal regulator of I training Area and the Eskmeals firing Range continuing as it is  asked- not as a formal subgroup of RPPI said he thought ideally not but would it from SSDCD  replied that this would be unlikely as suggested that it could continue to exist possibly through one of the DUFERC memb SSDCD  Suggested that to improve TEST's under should invite successor	(SSDCD) views regarding the status of the ed an important function and that it should wish to become a sub-group of RPPDC? and the Commandant of KTA gained a great gard to the specialist input from Dstl & regulatory bodies such as SEPA see the DU related activities at both the Kirkcudbright. Therefore he too would like to see DUFERC DC?  be possible to invite second MoD member as DUFERC and simply report to RPPDC ers that also sit on the RPPDC such as
weight of DU and the activity of LLW. The da Although firing dates back further than this the Eskmeals  asked if the recovery figure of 80% listed replied that the 805 referred to a special more realistic figure for routine waste recovery	was typical. total recovery exercise 60% would more be a ry. ate it was possible that up to 74 GBq missing he surrounding area

5.

#### 6. Eskmeals Report

presented this report:-

All on site waste processing by AMEC is now complete and he is now awaiting the LLW containers from Sellafield, When these arrive an AMEC team will return to VJ to load the non metallic LLW into them. It is expected that all loading will be completed by Christmas. The Eskmeals site is currently applying to the Environment Agency for an amended RSA Authorisation to allow for the metal components of the LLW to be further processed off site

New Action 56.4 QinetiQ Eskmeals to write to DE Identifying issues relating to metallic LLW going off-site for processing.

# 7. Kirkcudbright Report

- gave report. 16-20<sup>th</sup> Aug annual sampling took place. Added for the record that he would be retiring on the 26<sup>th</sup> August 2011 and that the MoD is trying to find someone to replace him.

#### 8. Dstl Report

Ministerial Briefing

Dstl assisted in briefing Min (AF) on the Government position on the use of DU anti-tank ammunition. This was for a meeting between Min (AF) and Lev Eakins of the UK Uranium Weapons Network at the Lib Dem Party Conference.

#### Iraq Inquiry

Dstl finalized a briefing paper on Government discussions on the use of DU munitions and amended their Dyson Inquest report to provide more detailed supporting information on DU contamination risks. Following a request from the Inquiry, Dstl provided a copy of the report of MOD's DU contamination monitoring in Iraq. These tasks arose as a result of the Inquiry receiving a number of letters in which it was alleged that use of DU munitions is illegal and presents extreme health risks to civilians. A paper submitted by groups opposed to the use of DU munitions has been received but not yet reviewed.

## Parliamentary Questions

There were PQs on: the UK's use of DU munitions in 1991 and 2003; transparency in the use of DU munitions; international efforts to reduce the potential risks to civilians and the effectiveness of DU clearance programmes in Iraq.

## Freedom of Information

There was a request for a copy of the MOD report to the Coroner who found that it was more likely than not that DU exposure was a factor in a Gulf veteran's death.

# Media

Dstl assisted in revising the MOD news brief on DU munitions.

#### War Pensions

There was a claim by a soldier who believed that his health had been adversely affected by work on Chieftain gun tanks during preparations for the 1990/1991 Gulf conflict. DstI advised that the claim should be rejected as his health problem was not known to be linked to radiation exposure and because no Chieftain gun tanks were used during this conflict. This was another case where the veteran was being supported by conflict. This was another case where the veteran was being supported by conflict. This was another case where the veteran was being supported by conflict. DstI also assisted in answering a question about the storage of battle-damaged Iraqi tanks near Basra.

#### MOD Documentation

Dstl provided DGM with an adapted version of the Iraq Inquiry report for use in their biennial DU munitions safety and environment review. This describes arrangements for the assurance of health and safety and environmental protection.

# DU Disposal and Transport

DGM began a sudy. Some RADSAFE issues identified during planning for the Phalanx disposal are likely to prompt a revision of JSP 800.

# US Developments

The US Department of Veterans Affairs will not establish a presumption of service connection between DU exposure and any of the diseases, illnesses, or health effects discussed in the Institute of Medicine of the National Academy of Sciences report entitled "Gulf War and Health: Updated Literature Review of Depleted Uranium". Institution, the suggestion that DU can cause a number of health effects other than cancers is being rejected.

#### Health Studies

The International Journal of Environmental Research and Public Health published a paper investigating the suggestion that increases in birth defects and cancer in Fallujah "were due to the use of novel weapons (possibly including DU)". It was stated that the results seemed to qualitatively support the existence of serious mutation-related health effects in Fallujah, but that their survey had "structural problems" and that care should be exercised in interpreting the findings quantitatively. This may be due to the study involving the use of questionnaires answered by local householders rather than a study of medical records.

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# Any Other Business

- presented a report produced by Penns Hall (Occurrence) entitled "Phyto-remediation at Eskmeals. In essence this presentation raises the possibility of using plants natural tendency to accumulate chemistry from their surrounding environment to decontaminate soils. This procedure has been used successfully at Chernobyl and some American industrial sites. This concept was originally brought to the notice by the last concept was originally brought to the notice by the notice by the last concept was originally brought to the notice by the last concept was originally brought to the notice by t
- stated that he thought that this was a very good idea and that MoD should be encouraged to investigate it
- agreed and said that there was no reason why a pilot scheme could not be run at VJ however funding would need to be found.
- problem of VJ remediation and that there were definite advantages to this approach such as public perception, cost and compliance
- agreed but stated that the chemical environment would need to be evaluated. He also raised concern over the eventual disposal of DU contaminated plants.
- added that if phyto-remediation was successful at Eskmeals it could also be used at KTA

It was as accepted by the committee that phyto-remediation should be considered as a possible method of remediation at Eskmeal and that it should be investigated further.

- agreed and suggested that we could consult with successive of Manchester university.
- environment at Eskmeals later this year)

New Action 56.5 – To to speak to

# 10. Date of next meeting

The next meeting will be held at 10:00 hrs on Tuesday 19th January 2011 at INM.

Distribution: All present+

- MoD SSD&C

- MoD DE

Delivery Manager TEST

File ESK/327/00

20<sup>th</sup> Dec 2010

# Summary of Outstanding Actions

Action 52.2 — to bring a draft standing order to the next meeting. This document is still being worked on. Action on-going. Jan 2011 Action 54.4 set up the occasional contract for an RPA for KTA. Action ongoing not present at meeting Jan 2011 Action 55.4. to circulate his suggestions regarding the amendments to the DUFERC **Action Ongoing** Jan 2011 Action 55.5 to amend the DU firing presentation to reflect the DUFERC input and return it to **Action Ongoing** Awaiting amendments Jan 2011 Action 55.6 to discuss the proposed (Eskmeals) sampling with I Eskmeals) Action ongoing to discuss with Jan 2011 Action 56.1 awaiting outcome of DE business case-review when received New Action Jan 2011 Action 56.2 to draft a letter concerning the importance of the LLWR inventory to the New Action RPPDC to ensure that the TEST input is not overlooked. Jan 2011 Action 56.3 to invite the new TEST Ops Delivery Manager the next DUFERC meeting. **New Action** Dec2001 Action 56.4 write to identifying the issues relating to the LLW steel from VJ Jan 2011 **New Action** Action 56.5 to speak to about the viability of phytoremediation of the DU contamination of the land surrounding VJ battery. New Action Oct 2010