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17 September 2013

AGENDA

AC/141(JCGUAS)A(2013)0002-REV1 (PFP)

NATO NAVAL ARMAMENTS GROUP

**JOINT CAPABILITY GROUP ON UNMANNED AIRCRAFT SYSTEMS
(JCGUAS)**

**Meeting to be held in Ottawa, Canada,
from Tuesday 24 to Thursday 26 September 2013
starting at 09.00 on Tuesday 24 September**

AGENDA ¹

(Briefers are invited to limit their presentations to 10 minutes)

References: (a) AC/141(JCGUAS)N(2013)0003(PFP) (Calling Notice)
(b) AC/141(JCGUAS)D(2012)0006(PFP) (Terms of Reference (TOR))

1. PLENARY SESSION OPENING (P)

1.1. Meeting administrative remarks – Secretary (P) [240900]

1.2. Chairmen remarks and introductions (P) [240915]

**2. ADOPTION OF THE AGENDA AND REVIEW OF THE DECISION SHEET OF
THE PREVIOUS MEETING (P)**

References: (a) AC/141(JCGUAS)A(2013)0002(PFP)
(b) AC/141(JCGUAS)DS(2012)0003(PFP)

2.1. Review Agenda, Decision Sheet and Action Items – Secretary (P) [240930]

2.2. NNAG and MCASB brief results (P) [240945]

¹ The meeting will include topics led by Acquisition Syndicate (AS), Operations Syndicate (OS) and Plenary (P). Event sequence [#] first two digits date, next four the time. Details for meeting location and hotel are in the Calling Notice.

2.3. Joint POW

Reference: AC/141(JCGUAS)D(2012)0001(PFP)

Comments and review of the JCGUAS POW - Custodian and Nations (P) [241000]

3. NATO PRIORITIES AND POLITICAL, CNAD, MAG, NNAG, MC GUIDANCE FOR THE WAY AHEAD

3.1. NATO Priorities

CNAD, NAFAG, and NNAG, and MC, MCASB, and AOWG Guidance

Update by the Secretary (P) [241030]

3.2. ACT/ACO NATO requirements relating to UAS –ACT/ACO (P) [241100]

3.3. Multinational Cooperation Status/Smart Defence Update (P) [241115]

4. UAS Operations Review (OS) [241315]

4.1. Scan Eagle Operations review

Common procedures, sharing of capability, ship flight deck qualifications, and systems utility. All nations employing Scan Eagle are requested to comment and identify where future coordination would be useful and note what type of interoperability may be desired. Specific national briefs proposed at the last meeting listed below. (OS)

4.1.1. USA Brief on Scan Eagle operations summary (OS) [241330]

4.1.2. CAN Brief on Scan Eagle deployment results (OS) [241350]

4.1.3. 4NLD Brief on Scan Eagle LPD operations (OS) [241410]

4.1.4. System Plans (P) [241430]

4.2. Counter UAS Update

USA update on Joint Counter-Low, Slow, Small UAS Joint Test. (OS) [241530]

4.3. Ratification/status ATP-3.3.7 Rev 2 (OS) [241600]

4.4. Operations Session Summary (P) [241630]

5. OPERATIONS SYNDICATE

5.1. Liaison Reports (OS) [250900]

5.1.1. Helicopter Operations on Ships Other Than Aircraft Carriers (HOSTACWG) - CAN

5.1.2. Maritime Operations Working Group (MAROPSWG) - USA

5.1.3. Helicopter Interservice Working Group (HISWG) – NLD

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5.1.4. Allied Joint Operational Doctrine Working Group (AJODWG) - USA

5.1.5. Land Operations Working Group (LOWG) - ROU

5.1.6. NCI Agency Frequency Management Subcommittee FMSC) - NCIA Rep

5.2. *Lessons Identified*

Results from thread on Forum Review actions 12, 13 and 14 from last meeting paragraph 5.2.1 in DS. (OS) [251000]

5.3. *Training Development*

Update of ATP 3.3.7, Guidance for the Training of Unmanned Aircraft Systems Operators STANAG 4670).

Review status of ratification/promulgation and way ahead. (OS) [251030]

5.4. *Operational Updates*

Update on recent UAS operations, exercises, and deployments from Nations. (OS) [201100]

5.5. *Operational Concepts Development*

5.5.1 UAS Operations in Hostile Environments (OS) [251330]

5.5.2 Cargo UAS. Update on recent ops and way ahead for possible NATO CONOPS. (OS) [201345]

5.6. ***Doctrine Team*** (OS) (251500)

5.6.1. Tactical Pocket Guide development update. Review action 15 from last meeting paragraph 5.4.1 in DS, reference (a). (OS) [201500]

5.6.2. AJP-3.3, Air and Space Operations, revision update. (OS) [201515]

5.6.3. Counter-UAS. Discussion of doctrinal impact of C-UAS. (OS) [201530]

5.7. ***Terminology Update*** (OS) [251600]

5.7.1. Per 36th AOWG action item, review/adjudicate any final comments posted to the NSA forum for the terms “automated unmanned aircraft” and “autonomous unmanned aircraft.” (OS) [251600]

5.7.2. New terminology proposals (OS) [251615], to include:

5.7.2.1. Automated Unmanned Aircraft

5.7.2.2. Autonomous Unmanned Aircraft

5.7.2.3. Unmanned Combat Aerial Vehicle

5.7.2.4. Unmanned Reconnaissance Aerial Vehicle

5.8. *Operations Syndicate 2014 March Meeting Agenda Topics/Schedule*

Review structure/content of Operations Syndicate session. (OS) [251630]

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6. UAS INTEROPERABILITY

6.1. UAS Control System (UCS) Architecture (AS)[250900]

- 6.1.1. STANAG 4586 status- by nations and the leader ST (AS)[250900]
- 6.1.2. Control Station Architecture Development Interoperability Profile (AS)[250945]
- 6.1.3. Review of Multi Domain control perspective for unmanned systems. (AS)[251030]

6.2. Spectrum Management (AS)[201100]

- 6.2.1. Way Ahead for UAS Interoperable Command and Control Data Link (IC2DL) STANAG 4660 – Chairman/ ST (AS)[251100]
- 6.2.2. UAS Frequency Management Discussion (AS)[251130]

7. SYSTEM DEVELOPMENT AND TECHNICAL RISK REDUCTION

7.1. HALE/MALE UAS Systems (AS)

- 7.1.1. JCGUAS coordination with NAGSMA (AS) [251330]

7.2. UAS Weaponization

Documentation status and way ahead. PST Chairman

- 7.2.1. STANAG 4586 Weaponization UAI status (AS) [251430]

7.3. Small/Mini/Micro UAS

- 7.3.1. Review coordination with JCGCBRN for Small UASs CBRN capability (AS) [251445]

7.4. Logistics Cooperation review

- 7.4.1. Role of NAMSA. NAMSA program brief on UAS logistic support (AS) [251500]
- 7.4.2. National Examples UAS Life Cycle Costs (AS) [251515]
 - 7.4.2.1. NLD examples of life cycle costs
 - 7.4.2.2. GBR Watchkeeper example of life cycle costs
 - 7.4.2.3. TUR example of life cycle costs
 - 7.4.2.4. FRA example of life cycle costs
 - 7.4.2.5. DEU example of life cycle costs for LUNA
 - 7.4.2.6. ISR example of life cycle costs for Skylark
- 7.4.3. Discuss key elements of logics costs (AS) [251630]

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8. NATIONAL CONCEPTS AND PROGRAMMES

8.1. *National Updates*

Nations are invited to provide a coordinated joint statement at the meeting on national operations, cooperation needs or progress in key areas. (AS) [260900]

8.2. *Operations and Technical Syndicates review*

Highlights of previous day's session and potential shared actions (P) [261000]

9. FLIGHT IN NON-SEGREGATED AIRSPACE (FINAS)

9.1. *Report by the FINAS Chairman on FINAS Standards Review and Schedule (AS)* [261030]

9.2. *National Updates on UAS Airspace Integration (AS)* [261100]

9.3. *NATO ATMC relations and shared NATO UAS airspace integration objectives.* (AS) [261130]

9.4. *Human Factors Study Results (AS)* [251315]

10. JOINT CAPABILITY GROUP UAS (JCGUAS) COORDINATION

10.1. *Relationships with NATO Groups and Agencies and Demonstrations*

10.1.1. RTO studies review and update study coordination for UAS (AS) STO Task Group AVT-174 on "Qualification and Structural Design Guidelines for Military Unmanned Air Vehicles" (AS) [261400]

10.1.2. Review previous coordination sessions with JCGISR Panel for status of continued cooperation. Review status of proposed shared NIAG PED study that was submitted and approved. Review coordination request for development of updated STANAGs for JCGISR. (P) [261445]

10.1.3. Review Unified Vision 2014 opportunities for participation/input (P) [261515]

11. REPORT TO CNAD

11.1. *Reports to MC/NNAG/NAAG/NAFAG - Chairman*

11.1.1. POW and links to tasking for MAGs and MC (P) [261530]

11.1.2. Progress charts for Report (P) [261545]

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12. **ANY OTHER BUSINESS (P) [261600]**

13. **DATE AND PLACE OF NEXT MEETINGS (P) [261615]**
 - 13.1. *Date and Location March 2014/meeting objectives* – Secretary
 - 13.2. *Date and Location September 2014/meeting objectives* – Secretary

14. **CLOSING REMARKS (P) [261645]**

(Signed) S.E. ALLEN

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September 2013 Meeting – Sequence of Agenda Items**24 September**

Event	Topic	Room/Note
240900	1.1 Meeting administrative remarks	Main
240915	1.2 Chairman remarks and introduction	Main
240930	2.1 Review agenda , decision sheet and action items	Main
240945	2.2 NNAG and MCASB results	Main
241000	2.3 Joint UAS POW	Main
241030	3.1 NATO Priorities	Main
241100	3.2 ACT/ACO NATO requirements relating to UAS	Main
241115	3.3 Multinational Cooperation Status/Smart Defence Update	Main
241315	4.1.1 UAS Operations Review	Main
241330	4.1.2 USA Scan Eagle brief	Main
241350	4.1.3 CAN Scan Eagle brief	Main
241410	4.1.4 NLD Scan Eagle brief	Main
241430	4.1.4 System Plans	Main
241530	4.2 Counter UAS Update	Main
241600	4.3 Ratification/status ATP-3.3.7 Rev 2	Main
241630	4.4 Operations Session Summary	Main

25 September Operations Syndicate Session

Event	Topic	Room/Note
250900	5.1 Reports	Breakout Room
251000	5.2 Lessons Identified	Breakout Room
251030	5.3 Training Development	Breakout Room
251100	5.4 Operational Updates	Breakout Room
251330	5.5.1 UAS Ops in Hostile Environment	Breakout Room
251345	5.5.2 Cargo UAS	Breakout Room
251500	5.6.1 Tactical pocket Guide update	Breakout Room
251515	5.6.2 AJP-3.3 update	Breakout Room
251530	5.6.3 Counter UAS	Breakout Room
251600	5.7 Terminology Update	Breakout Room
251630	5.8 Ops syndicate March 2014 meeting Topics/Schedule	Breakout Room

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25 September Acquisition Syndicate Session

Event	Topic	Room/Note
250900	6.1.1 STANAG 4586 status	Main
250945	6.1.2 Control Station Architecture Interoperability Profile	Main
251030	6.1.3 Review of Multidomain control for UAS	Main
251100	6.2.1 STANAG 4660 status	Main
251130	6.2.2 UAS Frequency Management Discussion	Main
251330	7.1.1 JCGUAS Coordination with NAGSMA	Main
251430	7.2 UAS Weaponization	Main
251445	7.3 JCBRN for Small UAS	Main
251500	7.4.1 Role of NAMSA	Main
251515	7.4.2 National examples of UAS lifecycle costs	Main
251630	7.4.3 Key elements of logistic costs	Main

26 September

Event	Topic	Room/Note
260900	8.1 National Updates	Main
261000	8.2 Operations and Technical Syndicates Review	Main
261030	9.1 FINAS report on Standards/Schedules	Main
261100	9.2 National updates on Airspace Integration	Main
261130	9.3 NATO ATMC relations and shared UAS Airspace Integration objectives	
261315	9.4 Human Factors Study Results	
261400	10.1.1 RTO study review AVT-174	Main
261445	10.1.2 JCGISR Coordination for PED NIAG study	Main
261515	10.1.3 Unified Vision 2014 coordination discussion	Main
261530	11. Reports to CNAD, MC and MAGs	Main
261600	12. Any Other Business	Main
261615	13. Date and Place for next meetings	Main
261645	14. Closing Remarks	Main

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