



**ICAO Heliport Design Working Group – status of
existing HDWG Job Cards.**
**A summary for the ICAO mid-region heliport seminar in
Dubai between 8 – 10 December 2015**

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ICAO HDWG Group Membership



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Task ADOP010-01: Provisions on the Certification of heliports including implementation of Safety Management Systems (SMS)

- Certification and SMS is an accepted part of Annex 14 Volume I for aerodromes but has not up until now been included for Volume II, Heliports.
- Implementing and establishing criteria certification of heliports and SMS is part of a State's safety programme.
- HDWG has been asked by Aerodrome Design and Operations Panel (ADOP) to submit standards for inclusion in Annex 14 Volume II and to provide draft guidance material on certification of heliports which will follow the basic format found in the "Manual on Certification of Aerodromes" (doc. 9774).
- Material will represent unique certification issues associated with heliports and follow the attachment style of formatting found in Annex 6 Volume 3.
- Chapter 1 SARPs have been assigned a high priority but have to be submitted at the same time as associated guidance material.
- HDWG is aiming to further develop, review and submit material to ADOP by 4Q/2016.

Task ADOP010-02: Review of Annex 14 Volume II, Section 5.3. Provisions concerning lighting at heliports

- Due primarily to ongoing lighting research being conducted by several nations, only a minor section 5.3 (lights) amendment was presented to Aerodromes Panel at the AP-2 meeting.
- However, it is recognised that an extensive revision of section 5.3 is still required including, but not limited to heliport beacon, approach lighting systems, visual alignment guidance system, visual approach slope indicator, FATO and TLOF lights and TD/PM lighting system.
- Where there is a need identified to address the photometric requirements of the system HDWG will work through a joint initiative with the Visual Aids Working Group (VAWG).
- However, the rewrite of Chapter 3 SARPS in an objective based format has likewise identified areas of Chapter 5 which will also need to be reworked in an objective-based format.
- HDWG is aiming to further review and submit material for Chapter 5 to ADOP no earlier than 4Q/2016 (but possibly in the following work cycle)
- A corresponding amendment to Heliport Manual material will follow this review .

Task ADOP010-03: Review complete Annex 14 Volume II Chapter 3, Heliport Physical Characteristics

- Complete a comprehensive review of SARPS detailed in Chapter 3, especially Section 3.2 addressing elevated heliports.
- This will include a complete review of the Chapter 3 text to ensure that SARPS are presented in an objective-based way.
- The HDWG onshore sub-group is now well advanced towards providing a fully reviewed and amended Chapter 3, including elevated heliports.
- The drafting of the SARPS has progressed well and is now estimated to be more than 75% complete.
- It is hoped this material can be completed in time for the next ADOP-2 meeting scheduled during 2Q of 2016.
- Development of the supporting guidance material in the Heliport Manual (Onshore Part II) will follow.

Task ADOP010-04: Review of the criteria used for categorisation of heliports for Chapter 6. Rescue & Fire-fighting Services (RFFS)

- A formal hand-off was made of heliport RFF / Emergency Planning issues from RFFWG to HDWG, with the promise of technical support where needed.
- It is recognised that Chapter 6 and the associated guidance in the Heliport Manual are both very limited in scope and somewhat outdated (do not account for emerging technologies for RFFS).
- Many technological advances have occurred within the RFF components which require updating.
- HDWG will deliver a fully updated Chapter 6 and supporting Heliport Manual guidance material as soon as practical.
- HDWG is aiming to further review and submit material for Chapter 6 to ADOP by 4Q/2016.

Task ADOP010-05: Review the markings of FATO and TLOFs

- Several issues with Chapter 5 markings have been identified by the ANC (through State comment) and by the HDWG itself that require further review.
- The re-write of Chapter 3 in an objective based form has identified a number of discrepancies in the sizes and location of markings as described in Chapter 5 particularly for FATO and TLOF.
- HDWG will deliver a fully reviewed and amended Chapter 5 to be submitted to the ADOP ideally by 4Q/2016.

Task ADOP010-06: Update of Doc 9261 – Heliport Design & Operations Manual (Offshore Part I and Onshore Part II)

- HDWG is to complete a comprehensive update of the Heliport Manual , by dividing the Manual into two sections – Part I to address Offshore Heliports and Part II to address Onshore Heliports.
- Part I (helidecks, shipboard heliports and shipboard winching areas) and Part II (surface level and elevated heliports). It will remain as one whole document – an update of doc. 9261.
- The Heliport Manual was last updated in 1995 and is now two major revisions (and several minor ones) out of step with Annex 14 Volume II.
- Part I, Offshore Heliports is well advanced and following submission to ADOP in September has recently been lodged with the ICAO Secretariat for formatting. This should be available in draft for use of States shortly.
- Part II, onshore heliports is still in the very early stages of development and is unlikely to be submitted to the ADOP before 2Q 2017. The update of the onshore portion represents a substantial piece of work for HDWG

Task ADOP003-02 – develop provisions for Obstacle Limitation Surfaces (OLS) for Instrument Heliports

Task ADOP003-03 – Guidelines for Aeronautical Studies to assess permissible penetrations of OLS

- ADOP003-02 – this task has been deferred until further helicopter approach criteria can be developed and be presented by the Instrument Flight Procedures Panel – IFPP.
- The IFPP is conducting a complete review of helicopter approach procedures including, but not limited to, the naming convention, definitions and criteria. The obstacle environment associated with heliport design is closely tied into the criteria as specified in PANSOPS. A completion date for this tasking has not been identified yet as it is linked to the IFPP review.
- ADOP003-03 – This was discussed at the last meeting in Gatwick (April 2015) and was agreed that expertise sat outside the HDWG. As the “aeronautical studies” were regarded as generic in nature it was felt that material developed for ICAO Doc 9137, Part 6 could also be used also in the Heliport Environment.