



*International Civil Aviation Organization*

**Regional Aviation Safety Group - Middle East**

**Sixth Meeting (RASG-MID/6)**  
*(Bahrain, 26-28 September 2017)*

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**Agenda Item 3: Regional Performance Framework for Safety**

**UPDATE ON DEVELOPMENT AND IMPLEMENTATION OF SEIs  
& DIPs RELATED TO RGS**

*(Presented by RGS WG Chairperson)*

**SUMMARY**

The paper provides an update on the Safety Enhancement Initiatives (SEIs) and Detailed Implementation Plans (DIPs) related to Runway and Ground Safety (RGS). It also presents the status of aerodromes certification and establishment of Runway Safety Teams.

Action by the meeting is at paragraph 3.

**REFERENCES**

- RGS WG/3 (Cairo, Egypt, 19-22 September 2016) review of RGS SEIs and progress of DIPs
- RSC/5 (Amman, Jordan, 23 – 25 January 2017) endorsed additional RGS SEI

**1. INTRODUCTION**

1.1 According to ICAO data and the MID Annual Safety Report (MID-ASR), Runway Safety (RS) is confirmed to be the most frequent accidents at the global and Regional levels. Accordingly, RS remains as the first priority in the MID Region.

1.2 The IATA Safety Report for 2016 also identified Runway Excursion as one of its four primary areas of risk noting that these have accounted for the majority of accidents in the last five years. The report also notes the most occurring accident category for 2016 was Runway/Taxiway Excursions at 19%.

**2. DISCUSSION**

***Update on MID-RAST/RGS/2***

2.1 The UAE is the champion of MID-RAST/RGS/2 which focuses on *development guidance material and training programmes to support the creation of action plans by local aerodrome Runway Safety Teams (RST)*. The UAE has completed 100% of the DIP actions, as shown in **Appendix A**.

### ***Update on MID-RAST/RGS/3***

2.2 The UAE is the champion of MID-RAST/RGS/3, which focuses on *development guidance material and training programmes to support Aerodrome Infrastructure and Maintenance Management*. The UAE has completed 80% of the DIP actions and will conclude the remaining deliverable by end November 2018. The below paragraphs highlight the main actions related to this SEI.

2.3 In August 2015 the RGS WG provided ICAO MID a draft circular regarding *Aerodromes Certification Toolkit*. This document is based on the certification model used by the UAE and included model regulation, oversight processes and supporting forms for both aerodrome operations and rescue firefighting services. The circular was published by ICAO MID in September 2015 as RSA-05.

2.4 In April 2016 the RGS WG prepared a draft circular regarding *Guidance on Periodic Surveillance Audits of Aerodrome Infrastructure and Maintenance* which provides stand-alone materials focussing on aerodrome safety oversight. This document is based on the experience and expertise of the UAE and includes model regulation, processes and supporting forms. The circular was published by ICAO MID in August 2016 as RSA-10.

2.5 **Appendix B** provides a summary of actions and planned actions related to the MID-RAST/RGS/3 DIP.

### ***Update on MID-RAST/RGS/4***

2.6 Egypt is the Champion of MID-RAST/RGS/4 which focuses on *Aerodrome Safeguarding*. Egypt is supported by the UAE and Sudan in the development and implementation of the supporting DIP and has completed 50% of the DIP actions.

2.7 RSC/5 meeting endorsed the publication of MID-RSA, *Safeguarding of Aerodromes*, which provides materials focussing on aerodrome safety oversight. The circular was published by ICAO MID in March 2017 as RSA-11.

2.8 Egypt will host the Aerodrome Safeguarding Workshop in Cairo from 4-6 December 2017 with speakers provided by Egypt and UAE.

2.9 **Appendix C** provides a summary of actions and planned actions related to MID-RAST/RGS/4.

### ***Update on MID-RAST/RGS/5***

2.10 Sudan is the Champion of MID-RAST/RGS/5, which focuses on *Wildlife Management and Controls*. Sudan is supported by the UAE, Egypt, Oman, Bahrain and IFATCA in the development and implementation of the supporting DIP, which is 50% complete further to preparation of draft Wildlife Management Control Regulatory Framework & Guidance Materials.

2.11 The draft RSA on *Wildlife Management Regulatory Framework & Guidance Materials* is included for endorsement as part of RASG-MID/6-WP/11 Advisory Circulars Related to Runway Safety.

2.12 Sudan supported by Egypt and UAE completed a draft Wildlife Hazard Management Plan Template. The Template will be reviewed by the RGS/4 Meeting (5-7 November 2017).

2.13 Sudan has offered to host a Workshop on Wildlife Management Control from 4-6 September 2018 in Khartoum.

2.14 **Appendix E** provides a summary of actions and planned actions related to MID-RAST/RGS/5.

#### ***Update on MID-RAST/RGS/6***

2.15 Egypt is the Champion of MID-RAST/RGS/6 which focuses on *Laser Attacks*. The Safety Advisory Circular on Laser Attack Safety Guidelines – RSA/12 was first issued and published by MID Office on March 2017 (SL. Ref.: ME 4-17/067 dated 29 March 2017).

2.16 A revised version of the RSA on *Laser Attacks Safety Guidelines* is included for endorsement as part of RASG-MID/6-WP/11 Advisory Circulars Related to Runway Safety.

2.17 **Appendix D** provides a summary of actions and planned actions related to MID-RAST/RGS/6.

#### ***New SEI for Ground Handling Operations and Safety***

2.18 RSC/5 agreed to the development of a new SEI, which focuses on *Ground Handling Operations and Safety* as MID-RAST/RGS/7 based on RGS WG/3 Draft Conclusion 3/5. The Subject is addressed in WP/7 (RSC/5 Draft Conclusion 5/2 refers).

2.19 Draft Conclusions on Adoption of ISAGO and IGOM for Ground Handling Operations and Development of Additional Ground Handling Operations Provisions were included for endorsement as part of RASG-MID/6-WP/7.

2.20 In the same vein a draft conclusion on Expansion of Runway Safety Programme (RSP) scope from the runway strip to the movement area (including aprons) is included for endorsement as part of RASG-MID/6-WP/7.

#### ***Updates on Certification of Aerodromes and Establishment of Runway Safety Teams***

2.21 The meeting may wish to recall that RSC/5 reviewed the status of implementation of Aerodrome Certification and agreed that more efforts are needed to meet the target of 75% for year 2017.

2.22 Based on the feedback provided by States (up to 30 July 2017) and the amended AOP Table of the MID ANP, the aerodromes certification implementation table has been updated as at **Appendix F**. The table shows that 34 out of the 59 MID States' international aerodromes have been certified. This number represents 58% of the international aerodromes listed in the MID ANP which does not reach the MID Safety Strategy target for 2017.

2.23 The meeting may wish to recall that the RASG-MID/4 endorsed the inclusion of a new Safety Indicator "Number of established Runway Safety Teams (RST) at MID international aerodromes" in the MID Region Safety Strategy. The RSC/5 meeting noted that 25 RSTs were established, representing 42% of the required RSTs in the MID Region international aerodromes.

2.24 An update to the list of MID international aerodromes that established Runway Safety Teams is included in **Appendix G**. The table indicates that 33 RST were established out of 59 required at MID international aerodromes. The percentage of establishment of RSTs in the MID Region is 56% on 30 July 2017; noting the MID Safety Strategy target is 50% of international aerodromes by 2020.

2.25 With respect to the Procedures for the Air Navigation Services – Aerodromes (PANS-Aerodromes – Doc 9981), the RSC/5 meeting urged States and aerodrome operators to implement the provisions of the PANS-Aerodromes and to publish up-to-date lists of significant differences from this document in their AIP.

2.26 The meeting is invited to note that the Seminar/Workshop on the implementation of PANS-Aerodromes will be held in Cairo, Egypt, 8-9 November 2017, back-to-back with the RGS WG/4 meeting.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the progress achieved in the implementation of the DIPs related to MID-RASG RGS SEIs;
- b) encourage States to support the implementation of the RGS SEIs; and use the RASG-MID Safety Advisories, as appropriate, to enhance safety in the Region;
- c) encourage States to submit records of Runway Safety related accidents, with contributing factors, to ICAO MID Regional Office by end of each calendar year; and encourage;
- d) encourage States to participate in the Aerodrome Safeguarding Workshop in Cairo from 4-6 December 2017; and
- e) encourage States to participate in the Seminar/Workshop on the implementation of PANS-Aerodromes in Cairo, Egypt, 8-9 November 2017.

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**APPENDIX A**

**DIP Tracking for MID-RAST/RGS/2**

**Development guidance material and training programmes to support the creation of action plans by local aerodrome Runway Safety Teams (RST)**

<b>RGS/2 DIP Deliverable</b>	<b>Target Date</b>	<b>Status</b>	<b>Comments</b>
✓ Develop and issue Stop Bar guidance documentation for consideration of LRSTs	End April 2014	Completed	RASG-MID Safety Advisory (RSA-01) circulated to States on 2 November 2014 (Ref: ME 4-14/253).
✓ Organise a Workshop for Regional RST Go-Teams	End June 2014	Completed	3 June 2014 – see <i>RASG-MID/4 WP/7 - Outcome of MID-RRSS/2</i> for details.
✓ Develop and issue regulatory framework supporting establishment of LRSTs	End September 2014	Completed	RASG-MID Safety Advisory (RSA-02) circulated to States on 20 January 2015 (Ref: ME 4-15/014).
✓ Develop and issue a model checklist for LRSTs	End December 2014	Completed	RASG-MID Safety Advisory (RSA-03) circulated to States on 16 March 2015 (Ref: ME 4-15/078).

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**APPENDIX B**

**DIP Tracking for MID-RAST/RGS/3**

**Development guidance material and training programmes to support Aerodrome Infrastructure and Maintenance Management**

<b>RGS/3 DIP Deliverable</b>	<b>Target Date</b>	<b>Status</b>	<b>Comments</b>
✓ Conduct a MID-Regional Runway Safety Seminar	End June 2014	Completed	4 June 2014 – see <i>RASG-MID/4 WP/7 - Outcome of MID-RRSS/2</i> for details.
✓ Organise a Regional Aerodrome Certification Workshop	End June 2014	Completed	4 June 2014 - see <i>RASG-MID/4 WP/7 - Outcome of MID-RRSS/2</i> and <i>RASG-MID/4 WP/8 - Runway Safety Related Issues</i> .
✓ Develop a MID-Region Aerodrome Certification toolkit for States.	End March 2015	Completed	RASG-MID Safety Advisory (RSA-05) circulated to States on 10 September 2015 (Ref: ME 4-15/261).
✓ Develop and issue guidance material on periodic surveillance audits of Aerodrome Infrastructure and Maintenance	End March 2016	Completed	RASG-MID Safety Advisory (RSA-10) circulated to States on 22 August 2016 (Ref: ME 4-16/232).
Develop and issue guidance material on proactive oversight of Aerodrome Infrastructure Development	End November 2017	In Progress	Draft to be presented at RGS WG/4 (Cairo, Egypt, 5-7 November 2017).

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**APPENDIX C**

**DIP Tracking for MID-RAST/RGS/4**

**Aerodrome Safeguarding**

<b>RGS/4 DIP Deliverable</b>	<b>Target Date</b>	<b>Status</b>	<b>Comments</b>
Safeguarding Guidance Toolkit	April 2016	Completed	RASG-MID Safety Advisory (RSA-11), Safeguarding of Aerodromes, was circulated to States on 29 March 2017 (Ref: ME 4-17/066).
Regional Workshop	December 2017	In-Progress	The Workshop will be hosted by Egypt in Cairo from 4-6 December 2017 with speakers provided by Egypt and UAE. The Workshop is confirmed as part of the ICAO MID Regional Office - Tentative Schedule of Meetings, Seminars and Workshops.

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**APPENDIX D**

**DIP Tracking for MID-RAST/RGS/6**

**Laser Attacks**

<b>RGS/6 DIP Deliverable</b>	<b>Target Date</b>	<b>Status</b>	<b>Comments</b>
RSA for Guidance Material	September 2016	Completed	Draft RASG-MID Safety Advisory (RSA-12) was reviewed by RGS WG/3 and was circulated to States on 29 March 2017 (Ref: ME 4-17/067).
Amended RSA-12	September 2017	Completed	Draft Amended RSA-12 has been prepared and is included as part of RASG-MID6 - WP/11 pending endorsement for publication
✓ ICAO to issue State Letter to promulgate regulations on Laser Attacks	June 2015	Completed	Letter issued by ICAO MID on 3 September 2015.
RSA with Case Studies	May 2017	In Progress	Draft has being prepared to be reviewed by RGS/4 Meeting by November 2017 before circulation to States

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**APPENDIX E**

**DIP Tracking for MID-RAST/RGS/5**

**Wildlife Management Control**

<b>RGS/5 DIP Deliverable</b>	<b>Target Date</b>	<b>Status</b>	<b>Comments</b>
RSA for Regulatory Framework & Guidance Materials	August 2016	Completed	Draft RASG-MID Safety Advisory (RSA-13), <i>Wildlife Management Regulatory Framework &amp; Guidance Materials</i> , is included as part of RASGMID-6 - WP/11 pending endorsement for publication.
Templates on WHMP	End November 2017	In Progress	The templates have been drafted and will be presented to RGS WG/4 (Cairo, Egypt, 5-7 November 2017).
Wildlife Management Control Workshop	September 2018	In Progress	Sudan has offered to host the Workshop in Khartoum in September 2018.

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**APPENDIX F**

**Status of Implementation of Aerodrome Certification  
in the MID Region**

	<b>State</b>	<b>Number of Int'l Aerodromes</b>	<b>Number of Certified Int'l Aerodromes</b>	<b>Percentage Certified</b>
1	Bahrain	1	1	100%
2	Egypt	7	5	71%
3	Iran	9	4	44%
4	Iraq	6	2	33%
5	Jordan	3	2	67%
6	Kuwait	1	1	100%
7	Lebanon	1	0	0%
8	Libya	3	0	0%
9	Oman	2	2	100%
10	Qatar	2	2	100%
11	Saudi Arabia	4	4	100%
12	Sudan	4	3	75%
13	Syria	3	0	0%
14	UAE	8	8	100%
15	Yemen	5	0	0%
	<b>Total</b>	<b>59</b>	<b>34</b>	<b>58%</b>

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APPENDIX G

**Establishment of Runway Safety Teams (RSTs)  
at international Aerodromes in the MID Region**

(Updated 30 July2017)

	State	Number of Int'l Aerodromes	Number of established Runway Safety Teams	List of Aerodromes having established Runway Safety Team
1	<b>BAHRAIN</b>	1	1	Bahrain/Bahrain Intl (OBBI)
2	<b>EGYPT</b>	7	4	- Cairo/Cairo Intl (HECA) - Sharm El Sheikh Intl (HESH) - Hurghada Int'l (HEGN) - Marsa Alam Intl (HEMA)
3	<b>IRAN</b>	9	6	- Tehran/Mehrabad Intl (OIII) - Tehran/ IKIA Intl (OIIE) - Zahedan/Zahedan Intl (OIZH) - Yazd /Yazd Intl (OIYY) - Isfahan/Isfahan Int'l (OIFM) - Bandar Abbas /Bandar Abbas Intl (OIKB)
4	<b>IRAQ</b>	6		
5	<b>JORDAN</b>	3	1	- Aqaba/King Hussein Intl (OJAQ)
6	<b>KUWAIT</b>	1	1	Kuwait/Kuwait Intl (OKBK)
7	<b>LEBANON</b>	1		
8	<b>LIBYA</b>	3		
9	<b>OMAN</b>	2	2	- Muscat/Muscat Intl (OOMS) - Salalah/Salalah (OOSA)
10	<b>QATAR</b>	2	2	- Doha/Doha Intl (OTBD) - Doha/Hamad Intl (OTHH)

	State	Number of Int'l Aerodromes	Number of established Runway Safety Teams	List of Aerodromes having established Runway Safety Team
11	SAUDI ARABIA	4	4	- Dammam/King Fahad Intl (OEDF) - Jeddah/King Abdulaziz Intl (OEJN) - Riyadh/King Khalid Intl (OERK) - Madinah/Prince Mohammad Bin Abdulaziz Intl (OEMA)
12	SUDAN	4	4	- Khartoum/Khartoum (HSSS) - El Obeid/El Obeid (HSOB) - Port Sudan/Port Sudan (HSPN) - Nyala/Nyala (HSNN)
13	SYRIA	3		
14	UNITED ARAB EMIRATES- UAE	8	8	- Abu Dhabi/Abu -Dhabi Intl (OMAA) - Abu Dhabi/Al Bateen Intl (OMAD) - Dubai/Dubai Intl (OMDB) - Dubai/Al Maktoum Intl (OMDW) - Al Ain/Al Ain Intl (OMAL) - Fujairah/Fujairah Intl (OMFJ) - Ras Al Khaimah/Ras Al Khaimah Intl (OMRK) - Sharjah/Sharjah Intl (OMSJ)
15	YEMEN	5		
	<b>Total Percentage</b>	<b>59</b>	<b>33 56%</b>	

- END -