



International Civil Aviation Organization

**MIDANPIRG/21 & RASG-MID/11 Meetings**

*(Abu Dhabi, UAE, 4 – 8 March 2024)*

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**Agenda Item 5.4: Air Navigation Deficiencies**

**MID AIR NAVIGATION DEFICIENCIES STATUS**

*(Presented by the Secretariat)*

**SUMMARY**

This paper presents the outcome of the MIDANPIRG subsidiary bodies with regard to the review and update of air navigation deficiencies.

Action by the meeting is at paragraph 3.

**Reference**

- MIDANPIRG/20 and RASG-MID/10 Meetings Report (Muscat, Oman, 14 – 17 May 2023)
- ATM SG/9 (Sharm El Sheikh, Egypt, 14 – 16 November 2023)
- AIM SG/10 Report (Cairo, Egypt, 28-29 February 2024)
- ASPIG/5 Report (Doha, Qatar, 13-15 June 2023)
- CNS SG/12 Report (Amman, Jordan, 02 – 04 May 2023)
- MET SG/11 Report (Cairo, Egypt, 14-16 November 2023)

**1. INTRODUCTION**

1.1 The meeting may wish to note that MIDANPIRG/20 meeting (Muscat, Oman, 14 – 17 May 2023), reviewed and endorsed the list of deficiencies in the AIM, AOP, ATM, CNS, SAR and MET fields as reported by the relevant subsidiary bodies. The meeting noted that the total number of air navigation deficiencies recorded, was 116 deficiencies compared to 105 deficiencies approved by MIDANPIRG/19 (Riyadh, Saudi Arabia, 14-17 February 2022).

1.2 The air navigation deficiencies are reflected in the MID Air Navigation Deficiency Database (MANDD) at: <http://www.icao.int/mid>.

1.3 The MIDANPIRG/20 meeting noted with concern that the majority of deficiencies listed in the MANDD have no specific Corrective Action Plan (CAP). The meeting urged States to implement the provisions of MIDANPIRG Conclusion 15/35 related to the elimination of Air Navigation Deficiencies, in particular, the submission of a specific Corrective Action Plan (CAP) for each deficiency.

## 2. DISCUSSION

2.1 The meeting may wish to note that:

- a) In the AOP field: the total number of AOP deficiencies is nine (9) priority “A”. Seven (7) deficiencies related to aerodrome certification; one (1) related to runway physical characteristics; and one (1) related to apron lighting. The lack of implementation of aerodromes’ certification represents 78% of these deficiencies.
- b) In the AIM field: the total number of AIM deficiencies is forty-eight (48); forty-two (42) priority “A” and six (6) priority “B”. Twenty-two (22) deficiencies related to eTOD (based on the agreement to include new deficiencies related to the non-provision of TOD for Area 2a/TOFP and OLS); five (5) related to QMS; five (5) related to AIXM; six (6) related to WAC; three (3) related to pre-flight information services; two (2) related to AIP and aeronautical charts; three (3) related to AIRAC adherence; and two (2) related to WGS-84.

Based on AIM SG/10, deficiency reported against Iraq related to related to AIP and aeronautical charts is proposed for deletion; therefore, the total number of deficiencies in the AIM field would be forty-seven (47).

- c) In the ATM field: the total number of deficiencies is seventeen (17); twelve (12) priority “A” and seven (7) priority “B”. Eight (8) related to the uncompleted signature of contingency agreements; seven (7) related to the non-implementation of planned regional ATS Routes, and two (2) related to unsatisfactory reporting of large Height deviation (LHD) and Traffic Data Sample (TDS) to the MIDRMA.
- d) In the CNS field: the total number of CNS deficiencies is sixteen (16); fourteen (14) priority “A” and two (2) priority “B”. Two (2) deficiencies are related to ATS Direct speech circuits, twelve (12) related to lack of OLDI/AIDC connection, one (1) related to Inter-Regional Communication link with ICAO EUR/NAT Region and one (1) for HF service.

Deficiency reported against Bahrain, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Sudan and UAE for not implementing the Priority 1 AIDC/OLDI connection are proposed for deletion; therefore, the total number of deficiencies in the CNS field would be four (4).

- e) In the MET field: the total number of MET deficiencies is fifteen (15) priority “A” deficiencies. five (5) related to QMS, eight (8) related to METAR, TAF, SIGMET and WAFS and two (2) related to SADIS.

Based on MET SG/11, deficiency reported against Jordan related to SADIS service is proposed for deletion; therefore, the total number of deficiencies in the MET field would be fourteen (14).

- f) In the SAR field: the total number of deficiencies is nine (9) priority “A”. Five (5) related to the lack of implementation of SAR provisions; and four (4) related to non-compliance with the carriage of Emergency Locator Transmitter (ELT) requirements.

2.2 The updated lists of deficiencies in the AIM, AOP, ATM, CNS, SAR and MET fields are at **Appendices A, B, C, D, E and F**, respectively.

2.3 The analysis of the MID States’ air navigation deficiencies is shown in the tables and

graphs presented at **Appendices G and H**. In particular, it is to be highlighted that:

- The total number of air navigation deficiencies recorded would be 100 deficiencies compared to 116 deficiencies approved by MIDANPIRG/20.
- The total number of deficiencies varies between 0 and 20 deficiencies per State as shown in **Appendix H**.
- The distribution of air navigation deficiencies by field is shown in **Appendix G** as follows: AIM 47%, AOP 9%, ATM 17%, CNS 4%, MET 14% and SAR 9%.
- The distribution of air navigation deficiencies by priority is shown in **Appendix G** as follows: 0% “U”, 85% “A”, and 15% “B”.

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

3.1 The meeting is invited to:

- a) review, update and approve the air navigation deficiencies at **Appendices A, B, C, D, E and F**;
- b) review the analyses in **Appendices G and H**; and
- c) urge States to:
  - i. implement the provisions of the MIDANPIRG/15 Conclusion 15/35 and provide updates on the status of their deficiencies using MANDD;
  - ii. submit CAP for each deficiency; and
  - iii. submit official Letter with the associated evidence(s) when requesting to eliminate an air navigation deficiency.

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## APPENDIX A

## Deficiencies in the AIM field

## EGYPT

| Item No | Identification                                     |                      | Deficiencies                                     |                     |  |   | Corrective Action  |                |                    |                     |
|---------|--|----------------------|--|---------------------|--|---|--|----------------|--------------------|---------------------|
|         | Requirement  | Facilities/ Services | Description                                      | Date first reported | Remarks/ Rationale for non-elimination |   | Facilities/ Services   | Executing body | Date of completion | Priority for action |
| 1       | ANNEX 15 :<br>5.3.3.4.3<br>5.3.3.4.5<br>5.3.3.4.10 | -                    | Lack of provision of required obstacle data sets | May 2014            | -                                      | O | Phase 1: Determine the required specification for Obstacles area 1 and 4 (1/1/2018 to 1/3/2018); Phase 2: provide the required specification to Consultancy office to determine the implementing entity (1/3/2018 to 1/3/2019); Phase 3: Determine the implementing entity and begin to produce new software for eTOD (1/03/2019 to 1/12/2019); Phase 4: finish the new software and begin to produce eTOD area 4 (from existing raw data from Cairo International Airport Company) (1/1/2020 to 1/6/2020); Phase 5 (in parallel with phase 4): begin to produce eTOD area 1 after get raw data (1/1/2020 to 31/12/2020) Terrain data sets are provided for Areas 1 and 4. Terrain data sets for area 2a, TOFP and OLS are not provided. | Egypt          | Dec 2023           | A                   |

(1) Rationale for non-elimination: "F"= Financial

"H"= Human Resources

"S"= State (Military/political)

"O"= Other unknown causes

|   |  |   |   |                      |   |   |  |       |          |   |
|---|--|---|---|----------------------|---|---|--|-------|----------|---|
| 2 | ANNEX 15: Para.<br>5.3.3.3.2<br>5.3.3.3.3<br>5.3.3.3.8 | - | Lack of provision of required terrain data sets | Jan 2021<br>May 2014 | - | O | Phase 1: Determine the required specification for Obstacles area 1 and 4 (1/1/2018 to 1/3/2018); Phase 2: provide the required specification to Consultancy office to determine the implementing entity (1/3/2018 to 1/3/2019); Phase 3: Determine the implementing entity and begin to produce new software for eTOD (1/03/2019 to 1/12/2019); Phase 4: finish the new software and begin to produce eTOD area 4 (from existing raw data from Cairo International Airport Company) (1/1/2020 to 1/6/2020); Phase 5 (in parallel with phase 4): begin to produce eTOD area 1 after get raw data (1/1/2020 to 31/12/2020) Terrain data sets are provided for Areas 1 and 4. Terrain data sets for area 2a, TOFP and OLS are not provided. | Egypt | Dec 2023 | A |
|---|--|---|---|----------------------|---|---|--|-------|----------|---|

**Deficiencies in the AIM field**

**IRAN**

| Item No | Identification                   |                      | Deficiencies                    |                     |  |                      | Corrective Action   |                    |                     |   |
|---------|----------------------------------|----------------------|---------------------------------|---------------------|--|----------------------|---|--------------------|---------------------|---|
|         | Requirement                      | Facilities/ Services | Description                     | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body  | Date of completion | Priority for action |   |
| 1       | ANNEX 15: Para. 2.3.10 and 3.5.3 | -                    | Lack of AIXM-based AIS Database | Dec 2007            | -                                      | O                    | Based on the Corrective action plan it's divided into two millstones, First; Setup up new software till DEC 2022, and Second Update the database by End of July 2024. | Iran               | July 2024           | A |

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

A-3

|   |  |   |  |          |   |   |   |      |           |   |
|---|--|---|--|----------|---|---|---|------|-----------|---|
| 2 | ANNEX 15 :<br>5.3.3.4.3<br>5.3.3.4.5<br>5.3.3.4.10 | - | Lack of provision of required obstacle data sets | Jan 2021 | - | O | Obstacle data sets are available for Areas 1, 4 and 2a. Obstacle data sets for TOFP and OLS are not provided. | Iran | July 2024 | A |
| 3 | ANNEX 15 :<br>5.3.3.3.2<br>5.3.3.3.3<br>5.3.3.3.8  | - | Lack of provision of required terrain data sets  | Jan 2021 | - | O | Terrain data sets are available for Areas 1, 4 and 2a. Terrain data sets for TOFP and OLS are not provided.   | Iran | July 2024 | A |

## Deficiencies in the AIM field

## IRAQ

| Item No | Identification      |                      | Deficiencies  |                     |  | Corrective Action    |  |                    |                     |   |
|---------|---------------------|----------------------|---|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement         | Facilities/ Services | Description   | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | ANNEX 4: Para. 16.2 | -                    | Non-production of World Aeronautical Chart – ICAO 1:1 000 000 | May 1995            | -                                      | F H S                | Corrective Action Plan has not been formally provided by the State | Iraq               | Dec 2023            | B |

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

|   |   |                    |   |          |   |       |   |      |          |   |
|---|---|--------------------|---|----------|---|-------|---|------|----------|---|
| 2 | ANNEX 15: Para. 1.2.1.1                             | -                  | Implementation of geoid undulation referenced to the WGS-84 ellipsoid     | Dec 1997 | - | F H O | Corrective Action Plan has not been formally provided by the State                            | Iraq | Dec 2024 | A |
| 3 | ANNEX 15: Para. 3.6                                 | QMS Implementation | Lack of Implementation of QMS   | Jan 2003 | - | F H O | Corrective Action Plan has not been formally provided by the State                            | Iraq | Dec 2023 | A |
| 4 | ANNEX 4: Para. 11.2                                 | -                  | Non-production of Instrument Approach Chart ICAO for Mosul Intl. Airport  | Jan 2003 | - | F H O | An official letter regarding the status of Mosul Airport was not submitted to ICAO MID office | Iraq | Dec 2021 | A |
| 5 | ANNEX 15: Para. 5.5                                 | -                  | Non provision of pre-flight information service at international airports | Mar 2004 | - | F H O | Corrective Action Plan has not been formally provided by the State                            | Iraq | Dec 2023 | A |
| 6 | ANNEX 15: Para.5.3.3.4.3<br>5.3.3.4.5<br>5.3.3.4.10 | -                  | Lack of provision of required obstacle data sets                          | May 2014 | - | O     | Corrective Action Plan has not been formally provided by the State                            | Iraq | Dec 2024 | A |

(1) Rationale for non-elimination: "F" = Financial

"H" = Human Resources

"S" = State (Military/political)

"O" = Other unknown causes

|   |  |   |   |          |   |   |  |      |          |   |
|---|--|---|---|----------|---|---|--|------|----------|---|
| 7 | ANNEX 15: Para.<br>5.3.3.3.2<br>5.3.3.3.3<br>5.3.3.3.8 | - | Lack of provision of required terrain data sets | May 2014 | - | O | Corrective Action Plan has not been formally provided by the State | Iraq | Dec 2024 | A |
|---|--|---|---|----------|---|---|--|------|----------|---|

**Deficiencies in the AIM field**

**JORDAN**

| Item No | Identification                                       |                      | Deficiencies   |                     |  |     | Corrective Action  |                |                    |                     |
|---------|--|----------------------|--|---------------------|--|-----|--|----------------|--------------------|---------------------|
|         | Requirement  | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination |     | Facilities/ Services   | Executing body | Date of completion | Priority for action |
| 1       | ANNEX 4: Para. 16.2                                  | -                    | Non-production of World Aeronautical Chart – ICAO1:1 000 000 | Feb 2008            | -                                      | F H | Corrective Action Plan has not been formally provided by the State | Jordan         | Dec 2024           | B                   |
| 2       | ANNEX 15: Para. 5.3.3.4.3<br>5.3.3.4.5<br>5.3.3.4.10 | -                    | Lack of provision of required obstacle data sets             | May 2014            | -                                      | F H | Corrective Action Plan has not been formally provided by the State | Jordan         | Dec 2024           | A                   |

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

|   |  |   |   |          |   |     |  |        |          |   |
|---|--|---|---|----------|---|-----|--|--------|----------|---|
| 3 | ANNEX 15: Para.<br>5.3.3.3.2<br>5.3.3.3.3<br>5.3.3.3.8 | - | Lack of provision of required terrain data sets | May 2014 | - | F H | Corrective Action Plan has not been formally provided by the State | Jordan | Dec 2024 | A |
|---|--|---|---|----------|---|-----|--|--------|----------|---|

## Deficiencies in the AIM field

## LEBANON

| Item No | Identification                      |                      | Deficiencies   |                     |  |   | Corrective Action                                   |                |                    |                     |
|---------|-------------------------------------|----------------------|--|---------------------|--|---|---|----------------|--------------------|---------------------|
|         | Requirement                         | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination |   | Facilities/ Services                                | Executing body | Date of completion | Priority for action |
| 1       | ANNEX 4: Para. 16.2                 | -                    | Non-production of World Aeronautical Chart – ICAO1:1 000 000 | May 1995            | -                                      | H | Corrective Action Plan was provided in August 2016. | Lebanon        | Dec 2023           | B                   |
| 2       | ANNEX 15: Para. 3.6                 | QMS Implementation   | Lack of Implementation of QMS                                | Jan 2003            | (USOAP-CMA finding)                    | H | Corrective Action Plan was provided in August 2016. | Lebanon        | Dec 2023           | A                   |
| 3       | ANNEX 15:<br>5.3.3.4.3<br>5.3.3.4.5 | -                    | Lack of provision of required obstacle data sets             | May 2014            | -                                      | O | Corrective Action Plan was provided in August 2016. | Lebanon        | Dec 2023           | A                   |

(1) Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

|   |  |   |   |          |   |   |   |         |          |   |
|---|--|---|---|----------|---|---|---|---------|----------|---|
| 4 | ANNEX 15: Para. 5.3.3.3.2<br>5.3.3.3.3 | - | Lack of provision of required terrain data sets | May 2014 | - | O | Corrective Action Plan was provided in August 2016. | Lebanon | Dec 2023 | A |
|---|--|---|---|----------|---|---|---|---------|----------|---|

**Deficiencies in the AIM field**

**LIBYA**

| Item No | Identification                         |                      | Deficiencies  |                     |  |   | Corrective Action  |                |                    |                     |
|---------|--|----------------------|---|---------------------|--|---|--|----------------|--------------------|---------------------|
|         | Requirement                            | Facilities/ Services | Description   | Date first reported | Remarks/ Rationale for non-elimination |   | Facilities/ Services   | Executing body | Date of completion | Priority for action |
| 1       | ANNEX 4: Para. 16.2                    | -                    | Non-production of World Aeronautical Chart – ICAO 1:1 000 000 | May 2014            | -                                      | O | Corrective Action Plan has not been formally provided by the State | Libya          | Dec 2023           | B                   |
| 2       | ANNEX 15: Para. 5.3.3.4.3<br>5.3.3.4.5 | -                    | Lack of provision of required obstacle data sets              | May 2014            | -                                      | O | Corrective Action Plan has not been formally provided by the State | Libya          | Dec 2023           | A                   |
| 3       | ANNEX 15: Para. 5.3.3.3.2<br>5.3.3.3.3 | -                    | Lack of provision of required terrain data sets               | May 2014            | -                                      | O | Corrective Action Plan has not been formally provided by the State | Libya          | Dec 2023           | A                   |
| 4       | ANNEX 15: Para. 2.3.10 and 3.5.3       | -                    | Lack of AIXM-based AIS Database                               | May 2014            | -                                      | O | Corrective Action Plan has not been formally provided by the State | Libya          | Dec 2023           | A                   |
| 5       | ANNEX 15: Para. 3.6                    | QMS Implementation   | Lack of Implementation of QMS                                 | May 2014            | (USOAP-CMA finding)                    | O | Corrective Action Plan has not been formally provided by the State | Libya          | Dec 2023           | A                   |

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

## Deficiencies in the AIM field

## OMAN

| Item No | Identification                         |                      | Deficiencies                                     |                     |  |   | Corrective Action  |                |                    |                     |
|---------|--|----------------------|--|---------------------|--|---|--|----------------|--------------------|---------------------|
|         | Requirement                            | Facilities/ Services | Description                                      | Date first reported | Remarks/ Rationale for non-elimination |   | Facilities/ Services   | Executing body | Date of completion | Priority for action |
| 1       | ANNEX 15: Para. 2.3.10 and 3.5.3       | -                    | Lack of AIXM-based AIS Database                  | Jul 2005            | -                                      | O | A contract is going to be signed with a company specializing in this area for AIP Data Migration. AIM equipment installation will be completed by end of February 2017. The target is to have 70% of the data by June 2018 | Oman           | Oct 2023           | A                   |
| 2       | ANNEX 15: Para. 5.3.3.4.3<br>5.3.3.4.5 | -                    | Lack of provision of required obstacle data sets | May 2014            | -                                      | O | Area 1 obstacles are published in AIP Oman ENR 5.4 "Air Navigation (En-Route) Obstacles". Data originators for obstacles will be consulted for Area 1 obstacle completeness and update.                                    | Oman           | Dec 2023           | A                   |
| 3       | ANNEX 15: Para. 5.3.3.3.2<br>5.3.3.3.3 | -                    | Lack of provision of required terrain data sets  | May 2014            | -                                      | O | An agreement with National survey authority is going to be established to assist for progressive implementation of terrain datasets for area1. The target is to have the required data by Dec 2019.                        | Oman           | Dec 2023           | A                   |

## Deficiencies in the AIM field

## SAUDI ARABIA

| Item No | Identification |                      | Deficiencies |                     |  |  | Corrective Action    |                |                    |                     |
|---------|----------------|----------------------|--------------|---------------------|--|--|----------------------|----------------|--------------------|---------------------|
|         | Requirement    | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination |  | Facilities/ Services | Executing body | Date of completion | Priority for action |

<sup>(1)</sup> Rationale for non-elimination: "F" = Financial

"H" = Human Resources

"S" = State (Military/political)

"O" = Other unknown causes

|   |   |   |  |          |   |   |   |              |          |   |
|---|---|---|--|----------|---|---|---|--------------|----------|---|
| 1 | ANNEX 15 :<br>5.3.3.4.3<br>5.3.3.4.5<br>5.3.3.4.10      | - | Lack of provision of required obstacle data sets | Dec 2021 | - | O | Obstacle data sets are provided for Areas 1 and 4. Obstacle data sets for area 2a, TOFP and OLS are provided in: OERK, OEDF, OEMA, and OEJN. Updates of OEJN terrain digital data sets are expected to be available and published by: Q1-2021 | Saudi Arabia | Dec 2023 | A |
| 2 | ANNEX 15 :<br>para. 5.3.3.3.2<br>5.3.3.3.3<br>5.3.3.3.8 | - | Lack of provision of required terrain data sets  | Dec 2021 | - | O | Terrain data sets are available for Areas 1 and 4. Terrain data sets for area 2a, TOFP and OLS are provided in: OERK, OEDF, OEMA, and OEJN. Updates of OEJN terrain digital data sets are expected to be available and published by: Q1-2021  | Saudi Arabia | Dec 2023 | A |

**Deficiencies in the AIM field**

**SUDAN**

| Item No | Identification |                      | Deficiencies |                     |  | Corrective Action    |                |                    |                     |
|---------|----------------|----------------------|--------------|---------------------|--|----------------------|----------------|--------------------|---------------------|
|         | Requirement    | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body | Date of completion | Priority for action |

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

|   |   |   |  |             |   |   |   |       |          |   |
|---|---|---|--|-------------|---|---|---|-------|----------|---|
| 1 | ANNEX 15: Para.<br>5.3.3.4.3<br>5.3.3.4.5 | - | Lack of provision of<br>required obstacle data<br>sets | May<br>2014 | - | O | Corrective Action Plan has not been formally<br>provided by the State | Sudan | Dec 2023 | A |
| 2 | ANNEX 15: Para.<br>5.3.3.3.2<br>5.3.3.3.3 | - | Lack of provision of<br>required terrain data<br>sets  | May<br>2014 | - | O | Corrective Action Plan has not been formally<br>provided by the State | Sudan | Dec 2023 | A |

## Deficiencies in the AIM field

## SYRIA

| Item<br>No | Identification         |                         | Deficiencies  |                        |   |       | Corrective Action   |                   |                       |                           |
|------------|------------------------|-------------------------|---|------------------------|---|-------|---|-------------------|-----------------------|---------------------------|
|            | Requirement            | Facilities/<br>Services | Description   | Date first<br>reported | Remarks/ Rationale for<br>non-elimination |       | Facilities/<br>Services   | Executing<br>body | Date of<br>completion | Priority<br>for<br>action |
| 1          | ANNEX 4: Para.<br>16.2 | -                       | Non-production of<br>World Aeronautical<br>Chart – ICAO1:1 000<br>000 | May<br>1995            | -   | F H S | Corrective Action Plan has not been formally<br>provided by the State | Syria             | Dec 2023              | B                         |

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

## A-11

|   |                                  |                    |   |          |                     |     |  |       |          |   |
|---|----------------------------------|--------------------|---|----------|---------------------|-----|--|-------|----------|---|
| 2 | ANNEX 15: Para 6.2               | -                  | Lack of a system for AIRAC adherence monitoring   | May 1995 | -                   | F H | Corrective Action Plan has not been formally provided by the State | Syria | Dec 2023 | A |
| 3 | ANNEX 15: Para. 1.2.1.1          | -                  | Implementation of geoid undulation referenced to the WGS-84 ellipsoid.                        | Jan 2003 | -                   | F H | Corrective Action Plan has not been formally provided by the State | Syria | Dec 2023 | A |
| 4 | ANNEX 15: Para. 3.6              | QMS Implementation | Lack of Implementation of QMS   | Jan 2003 | (USOAP-CMA finding) | F H | Corrective Action Plan has not been formally provided by the State | Syria | Dec 2023 | A |
| 5 | ANNEX 15 Para. 5.2 and 6.3.1     | -                  | Lack of consistency in AIP information and lack of regular and effective updating of the AIP. | Jul 2005 | -                   | H   | Corrective Action Plan has not been formally provided by the State | Syria | Dec 2023 | A |
| 6 | ANNEX 15: Para. 2.3.10 and 3.5.3 | -                  | Lack of AIXM-based AIS Database   | Jul 2005 | -                   | F H | Corrective Action Plan has not been formally provided by the State | Syria | Dec 2023 | A |

(1) Rationale for non-elimination: "F" = Financial

"H" = Human Resources

"S" = State (Military/political)

"O" = Other unknown causes

|   |  |   |   |          |   |     |  |       |          |   |
|---|--|---|---|----------|---|-----|--|-------|----------|---|
| 7 | ANNEX 15: Para. 5.5                    | - | Non provision of pre-flight information service at international airports | Jul 2005 | - | F H | Corrective Action Plan has not been formally provided by the State | Syria | Dec 2021 | A |
| 8 | ANNEX 15: Para. 5.3.3.4.3<br>5.3.3.4.5 | - | Lack of provision of required obstacle data sets                          | May 2014 | - | O   | Corrective Action Plan has not been formally provided by the State | Syria | Dec 2023 | A |
| 9 | ANNEX 15: Para. 5.3.3.3.2<br>5.3.3.3.3 | - | Lack of provision of required terrain data sets                           | May 2014 | - | O   | Corrective Action Plan has not been formally provided by the State | Syria | Dec 2023 | A |

## Deficiencies in the AIM field

## YEMEN

| Item No | Identification      |                      | Deficiencies   |                     |  | Corrective Action    |  |                    |                     |   |
|---------|---------------------|----------------------|--|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement         | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | ANNEX 4: Para. 16.2 | -                    | Non-production of World Aeronautical Chart – ICAO1:1 000 000 | May 1995            | -                                      | F                    | Corrective Action Plan has not been formally provided by the State | Yemen              | Dec 2023            | B |

(1) Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

|   |   |                    |   |          |   |     |  |       |          |   |
|---|---|--------------------|---|----------|---|-----|--|-------|----------|---|
| 2 | ANNEX 15: Para 6.2                      | -                  | Lack of a system for AIRAC adherence monitoring                           | May 1995 | - | H O | Corrective Action Plan has not been formally provided by the State | Yemen | Dec 2023 | A |
| 3 | ANNEX 4: Para. 11.2                     | -                  | Non-production of Instrument Approach Chart-ICAO for TAIZ Intl. Airport   | Jan 2003 | - | O   | Corrective Action Plan has not been formally provided by the State | Yemen | Dec 2025 | A |
| 4 | ANNEX 15: Para. 3.6                     | QMS Implementation | Lack of Implementation of QMS   | Jan 2003 | - | F   | Corrective Action Plan has not been formally provided by the State | Yemen | Dec 2023 | A |
| 5 | ANNEX 15: Para. 5.5                     | -                  | Non provision of pre-flight information service at international airports | Mar 2004 | - | F H | Corrective Action Plan has not been formally provided by the State | Yemen | Dec 2023 | A |
| 6 | ANNEX 15: Para. 2.3.10 and 3.5.3        | -                  | Lack of AIXM-based AIS Database   | Jul 2005 | - | F   | Corrective Action Plan has not been formally provided by the State | Yemen | Dec 2023 | A |
| 7 | ANNEX 15 : Para 5.3.3.3.2<br>5.3.3.3.3  | -                  | Lack of provision of required terrain data sets                           | May 2014 | - | O   | Corrective Action Plan has not been formally provided by the State | Yemen | Dec 2023 | A |
| 8 | ANNEX 15 : Para. 5.3.3.4.3<br>5.3.3.4.5 | -                  | Lack of provision of required obstacle data sets                          | May 2014 | - | O   | Corrective Action Plan has not been formally provided by the State | Yemen | Dec 2023 | A |

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<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

## APPENDIX B

## Deficiencies in the AOP field

## IRAN

| Item No | Identification                  |   | Deficiencies  |                     |  |                      | Corrective Action  |                    |                     |   |
|---------|---------------------------------|---|---|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement                     | Facilities/ Services  | Description   | Date first reported | Remarks/ Rationale for non-elimination   | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | ANNEX 14<br>VOL I: Para.<br>1.4 | -MASHHAD/Shahid Hashemi Nejad Intl (OIMM), SHIRAZ/Shiraz Intl (OISS ), TABRIZ/Tabriz Intl (OITT), TEHRAN/Imam Khomains Intl (OIIE), BANDAR ABBAS/Bandar Abbas Intl (OIKB) | Implementation of Certification of Aerodromes used for international operations | Nov 2006            | Certification Status for: - TEHRAN/ IKIA Intl (OIIE) - BANDAR Abbas /Bandar Abbas Intl (OIKB) are waiting final action for certification very soon | F<br>H               | Corrective Action Plan has not been formally provided by the State | Iran               | Dec 2021            | A |

## Deficiencies in the AOP field

## IRAQ

| Item No | Identification                  |  | Deficiencies  |                     |  |                      | Corrective Action  |                    |                     |   |
|---------|---------------------------------|--|---|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement                     | Facilities/ Services   | Description   | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | ANNEX 14<br>VOL I: Para.<br>1.4 | Al Najaf/Al Najaf Intl (ORNI), BASRAH/Basrah Intl (ORMM), MOUSL/Mousl Intl (ORBM), SULYMANIYAH/Sulaymaniyah Intl (ORSU ) | Implementation of Certification of Aerodromes used for international operations | Nov 2006            | -                                      | F<br>H<br>O          | Corrective Action Plan has not been formally provided by the State | Iraq               | Dec 2021            | A |

## Deficiencies in the AOP field

## LEBANON

<sup>(1)</sup> Rationale for non-elimination: "F"= Financial

"H"= Human Resources

"S"= State (Military/political)

"O"= Other unknown causes

| Item No | Identification                  |                                  | Deficiencies  |                     |  | Corrective Action    |  |                    |                     |   |
|---------|---------------------------------|----------------------------------|---|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement                     | Facilities/ Services             | Description   | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | ANNEX 14<br>VOL I: Para.<br>1.4 | BEIRUT/ Rafic Hariri Intl (OLBA) | Implementation of Certification of Aerodromes used for international operations | Nov 2006            | -                                      | F<br>H               | Corrective Action Plan has not been formally provided by the State | Lebanon            | Dec 2021            | A |

## Deficiencies in the AOP field

## LIBYA

| Item No | Identification                  |  | Deficiencies  |                     |  | Corrective Action    |  |                    |                     |   |
|---------|---------------------------------|--|---|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement                     | Facilities/ Services   | Description   | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | ANNEX 14<br>VOL I: Para.<br>1.4 | BENGAZI/Benina (HLLB), SEBHA/Sebha (HLLS), TRIPOLI/Tripoli Intl (HLLT) | Implementation of Certification of Aerodromes used for international operations | May 2015            | -                                      | F<br>H<br>S          | Corrective Action Plan has not been formally provided by the State | Libya              | Dec 2021            | A |

## Deficiencies in the AOP field

## SUDAN

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

| Item No | Identification               |                        | Deficiencies  |                     |   |                      | Corrective Action |                    |                     |  |
|---------|------------------------------|------------------------|---|---------------------|---|----------------------|-------------------|--------------------|---------------------|--|
|         | Requirement                  | Facilities/ Services   | Description   | Date first reported | Remarks/ Rationale for non-elimination                      | Facilities/ Services | Executing body    | Date of completion | Priority for action |  |
| 1       | ANNEX 14<br>VOL I: Para. 1.4 | - Nyala/Nyala Airports | Implementation of Certification of Aerodromes used for international operations | May 2015            | Certification of NYALA/Nyala (HSNN) Will be in January 2018 | F<br>H               | -<br>Sudan        | Dec 2021           | A                   |  |

**Deficiencies in the AOP field**

**SYRIA**

| Item No | Identification                    |                        | Deficiencies   |                     |  |                      | Corrective Action   |                    |                     |  |
|---------|-----------------------------------|------------------------|--|---------------------|--|----------------------|---|--------------------|---------------------|--|
|         | Requirement                       | Facilities/ Services   | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body  | Date of completion | Priority for action |  |
| 1       | MID eANP<br>VOL II Table AOP II-1 | Damascus int'l Airport | Apron lighting inadequate  | Sep 2003            | -                                      | F<br>H               | Corrective Action Plan has not been formally provided by the State<br>Syria | Dec 2021           | A                   |  |
| 2       | MID eANP<br>VOL II Table AOP II-1 | Damascus int'l Airport | Runway surface rough and damaged. Runway markings unsatisfactory | Sep 2003            | -                                      | F<br>H               | Corrective Action Plan has not been formally<br>Syria                       | Dec 2021           | A                   |  |

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

|   |                                 |  |   |             |   |        |   |       |          |   |
|---|---------------------------------|--|---|-------------|---|--------|---|-------|----------|---|
|   |                                 |  |   |             |   |        | provided by the State   |       |          |   |
| 3 | ANNEX 14<br>VOL I: Para.<br>1.4 | ALEPPO/Aleppo Intl (OSAP), DAMASCUS/<br>Damascus Intl (OSDI), LATTAKIA /Bassel<br>AL-Assad Intl (OSLK) | Implementation of<br>Certification of<br>Aerodromes used for<br>international<br>operations | Nov<br>2006 | - | F<br>H | Corrective<br>Action Plan has<br>not been<br>formally<br>provided by<br>the State | Syria | Dec 2021 | A |

## Deficiencies in the AOP field

## YEMEN

| Item<br>No | Identification                  |  | Deficiencies  |                     |  | Corrective Action    |   |                    |                     |   |
|------------|---------------------------------|--|---|---------------------|--|----------------------|---|--------------------|---------------------|---|
|            | Requirement                     | Facilities/ Services   | Description   | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body  | Date of completion | Priority for action |   |
| 1          | ANNEX 14<br>VOL I: Para.<br>1.4 | ADEN/Aden Intl (OYAA), HODEIDAH/<br>Hodeidah Intl (OYHD), MUKALLA/Riyan Intl<br>(OYRN), SANA'A/Sana'a Intl (OYSN), TAIZ/<br>Taiz Intl (OYTZ) | Implementation of<br>Certification of<br>Aerodromes used for<br>international<br>operations | Nov<br>2006         | -                                      | F<br>H               | Corrective<br>Action Plan has<br>not been<br>formally<br>provided by<br>the State | Yemen              | Dec 2021            | A |

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<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

**APPENDIX C**

**Deficiencies in the ATM Field**

**IRAN**

| Item No | Identification   |                      | Deficiencies                          |                     |  | Corrective Action    |  |                    |                     |   |
|---------|--|----------------------|---------------------------------------|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement  | Facilities/ Services | Description                           | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | MID ANP TABLE<br>ATM II-MID-1 MID<br>REGION ATS<br>ROUTE NETWORK | -                    | ATS routes A418/UP574 not implemented | Dec 2006            | KUMUN-PAPAR segment not implemented.   | S<br>O               | Corrective Action Plan has not been formally provided by the State | Iran- UAE          | Dec 2021            | B |

**Deficiencies in the ATM field**

**IRAQ**

| Item No | Identification   |                      | Deficiencies  |                     |   | Corrective Action    |  |                       |                     |   |
|---------|--|----------------------|---|---------------------|---|----------------------|--|-----------------------|---------------------|---|
|         | Requirement  | Facilities/ Services | Description   | Date first reported | Remarks/ Rationale for non-elimination        | Facilities/ Services | Executing body   | Date of completion    | Priority for action |   |
| 1       | MID ANP Table<br>ATM II-MID-1 MID<br>REGION ATS<br>ROUTE NETWORK | -                    | ATS route G667 not implemented  | Sep 2006            | Segment ALSAN-ABD not implemented             | S                    | Corrective Action Plan has not been formally provided by the State | Iraq- Iran-<br>Kuwait | Dec 2021            | B |
| 2       | Annex 11 Para.<br>2.31   | -                    | Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs. | Nov 2006            | Contingency Agreement to be signed with Syria | S                    | Corrective Action Plan has not been formally provided by the State | Iraq                  | Dec 2021            | A |

(1) Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

|   |  |   |                                |          |   |   |  |                       |          |   |
|---|--|---|--------------------------------|----------|---|---|--|-----------------------|----------|---|
| 3 | MID ANP Table<br>ATM II-MID-1 MID<br>REGION ATS<br>ROUTE NETWORK | - | ATS route G795 not implemented | May 2008 | RAF-BSR segment<br>not implemented        | S | Corrective Action Plan has<br>not been formally provided<br>by the State | Iraq- Saudi<br>Arabia | Dec 2021 | B |
| 4 | MID ANP Table<br>ATM II-MID-1 MID<br>REGION ATS<br>ROUTE NETWORK | - | ATS route A424 not implemented | May 2008 | LOTAN-LOVEK<br>segment not<br>implemented | O | Corrective Action Plan has<br>not been formally provided<br>by the State | Iraq                  | Dec 2021 | B |

**Deficiencies in the ATM field**

**JORDAN**

| Item<br>No | Identification         |                         | Deficiencies  |                        |   | Corrective Action    |   |                       |                        |   |
|------------|------------------------|-------------------------|---|------------------------|---|----------------------|---|-----------------------|------------------------|---|
|            | Requirement            | Facilities/<br>Services | Description   | Date first<br>reported | Remarks/ Rationale<br>for non-elimination           | Facilities/ Services | Executing<br>body   | Date of<br>completion | Priority<br>for action |   |
| 1          | Annex 11 Para.<br>2.31 | -                       | Development of contingency plan for<br>implementation in the event of<br>disruption or potential disruption of<br>ATS and related supporting services.<br>The Plan should also address natural<br>disasters and public health<br>emergencies. Contingency agreements<br>should be signed with all adjacent<br>ACCs. | Nov 2006               | Contingency<br>agreements not<br>signed with Syria. | H                    | Corrective Action Plan has<br>not been formally provided<br>by the State. State comment:<br>due to political impact in the<br>region Jordan is not able to<br>complete the signature of<br>contingency agreements with<br>all adjacent States | Jordan                | Dec 2021               | A |

<sup>(1)</sup> Rationale for non-elimination: "F" = Financial

"H" = Human Resources

"S" = State (Military/political)

"O" = Other unknown causes

**Deficiencies in the ATM field**  
**LEBANON**

| Item No | Identification        |                      | Deficiencies  |                     |  | Corrective Action    |  |                    |                     |   |
|---------|-----------------------|----------------------|---|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement           | Facilities/ Services | Description   | Date first reported | Remarks/ Rationale for non-elimination       | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | Annex 11 Para. 2.31   | -                    | Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs. | Nov 2006            | Contingency agreements not signed with Syria | S                    | Corrective Action Plan has not been formally provided by the State | Lebanon            | Dec 2021            | A |
| 2       | Annex 11 Para 3.3.5.1 | -                    | Reporting unsatisfactory LHDs to MIDRMA   | Dec 2023            | Lebanon to coordinate with MIDRMA.           | H                    | Corrective Action Plan has not been formally provided by the State | Lebanon            |                     | A |

**Deficiencies in the ATM field**  
**LIBYA**

| Item No | Identification        |                      | Deficiencies   |                     |  | Corrective Action    |  |                    |                     |   |
|---------|-----------------------|----------------------|--|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement           | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | Annex 11 Para 3.3.5.1 | -                    | Not reporting the required data to the MIDRMA in a timely manner.  | Dec 2013            | -                                      | H<br>O               | Corrective Action Plan has not been formally provided by the State | Libya              | Dec 2021            | A |
| 2       | Annex 11 Para. 2.31   | -                    | Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural | Dec 2014            | Agreement signed only with Egypt       | S<br>O               | Corrective Action Plan has not been formally provided by the State | Libya              | Dec 2021            | A |

(1) Rationale for non-elimination: “F” = Financial                      “H” = Human Resources                      “S” = State (Military/political)                      “O” = Other unknown causes

|  |  |  |   |  |  |  |  |  |  |
|--|--|--|---|--|--|--|--|--|--|
|  |  |  | disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs |  |  |  |  |  |  |
|--|--|--|---|--|--|--|--|--|--|

## Deficiencies in the ATM field

## QATAR

| Item No | Identification      |                      | Deficiencies  |                     |   | Corrective Action    |  |                    |                     |   |
|---------|---------------------|----------------------|---|---------------------|---|----------------------|--|--------------------|---------------------|---|
|         | Requirement         | Facilities/ Services | Description   | Date first reported | Remarks/ Rationale for non-elimination      | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | Annex 11 Para. 2.31 | -                    | Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs. | Nov 2006            | Contingency agreements not signed with UAE. | S                    | Corrective Action Plan has not been formally provided by the State | Qatar-Bahrain      | Dec 2021            | A |

## Deficiencies in the ATM field

## SAUDI ARABIA

| Item No | Identification      |                      | Deficiencies   |                     |   | Corrective Action    |  |                    |                     |   |
|---------|---------------------|----------------------|--|---------------------|---|----------------------|--|--------------------|---------------------|---|
|         | Requirement         | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination                        | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | Annex 11 Para. 2.31 | -                    | Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health | Nov 2006            | Contingency Agreements not signed with Iraq, Qatar and Sudan. | S                    | Corrective Action Plan has not been formally provided by the State | Saudi Arabia       | Dec 2021            | A |

(1) Rationale for non-elimination: "F" = Financial

"H" = Human Resources

"S" = State (Military/political)

"O" = Other unknown causes

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
|  |  |  | emergencies. Contingency agreements should be signed with all adjacent ACCs. |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|

**Deficiencies in the ATM field**  
**SUDAN**

| Item No | Identification      |                      | Deficiencies  |                     |  | Corrective Action    |  |                    |                     |   |
|---------|---------------------|----------------------|---|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement         | Facilities/ Services | Description   | Date first reported | Remarks/ Rationale for non-elimination       | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | Annex 11 Para. 2.31 | -                    | Development of contingency plan for implementation in the event of disruption or potential disruption of ATS and related supporting services. The Plan should also address natural disasters and public health emergencies. Contingency agreements should be signed with all adjacent ACCs. | Dec 2014            | Contingency Agreement signed only with Egypt | H<br>S<br>O          | Corrective Action Plan has not been formally provided by the State | Sudan              | Dec 2021            | A |

**Deficiencies in the ATM field**  
**SYRIA**

| Item No | Identification  |                      | Deficiencies                   |                     |  | Corrective Action    |  |                    |                     |   |
|---------|---|----------------------|--------------------------------|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement   | Facilities/ Services | Description                    | Date first reported | Remarks/ Rationale for non-elimination   | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | MID ANP Table ATM II-MID-1 MID REGION ATS ROUTE NETWORK | -                    | ATS route G202 not implemented | Dec 1997            | Segment DAKWE - Damascus not implemented | S                    | Corrective Action Plan has not been formally provided by the State | Syria              | Dec 2021            | B |

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial                      “H” = Human Resources                      “S” = State (Military/political)                      “O” = Other unknown causes

|   |  |   |   |          |  |        |  |       |          |   |
|---|--|---|---|----------|--|--------|--|-------|----------|---|
| 2 | MID ANP Table<br>ATM II-MID-1 MID<br>REGION ATS<br>ROUTE NETWORK | - | ATS route UL602 not implemented   | Dec 2003 | Segments ELEXI-<br>DRZ-GAZ not<br>implemented. | S      | Corrective Action Plan has<br>not been formally provided<br>by the State | Syria | Dec 2021 | B |
| 3 | Annex 11 Para.<br>2.31   | - | Development of contingency plan for<br>implementation in the event of<br>disruption or potential disruption of<br>ATS and related supporting services.<br>The Plan should also address natural<br>disasters and public health<br>emergencies. Contingency agreements<br>should be signed with all adjacent<br>ACCs. | Nov 2006 | No signed<br>agreement yet                     | H<br>O | Corrective Action Plan has<br>not been formally provided<br>by the State | Syria | Dec 2021 | A |

## Deficiencies in the ATM field

## UAE

| Item<br>No | Identification   |                         | Deficiencies                             |                        |  | Corrective Action    |  |                       |                        |   |
|------------|--|-------------------------|--|------------------------|--|----------------------|--|-----------------------|------------------------|---|
|            | Requirement  | Facilities/<br>Services | Description                              | Date first<br>reported | Remarks/ Rationale<br>for non-elimination  | Facilities/ Services | Executing<br>body  | Date of<br>completion | Priority<br>for action |   |
| 1          | MID ANP Table<br>ATM II-MID-1 MID<br>REGION ATS<br>ROUTE NETWORK | -                       | ATS routes A418/UP574 not<br>implemented | Dec 2006               | KUMUN-PAPAR<br>segment not<br>implemented. | S                    | Corrective Action Plan has<br>not been formally provided<br>by the State | Iran- UAE             | Dec 2021               | B |

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<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

APPENDIX D

**Deficiencies in the CNS field**  
**KUWAIT**

| Item No | Identification                  |  | Deficiencies   |                     |  |   | Corrective Action    |                |                    |                     |
|---------|---------------------------------|--|--|---------------------|--|---|----------------------|----------------|--------------------|---------------------|
|         | Requirement                     | Facilities/ Services                                       | Description  | Date first reported | Remarks/ Rationale for non-elimination |   | Facilities/ Services | Executing body | Date of completion | Priority for action |
| 1       | MID eANP VOI II, Table CNS II-2 | Inter-regional Communication link with ICAO EUR/NAT Region | The Inter-regional Communication Link between Kuwait COM Centre and one of the entry/exit points of the ICAO EUR/NAT Region is not implemented | Mar 2019            | -                                      | O | -                    | Kuwait         | Dec 2021           | B                   |

**Deficiencies in the CNS field**  
**LEBANON**

| Item No | Identification                  |   | Deficiencies   |                     |  |   | Corrective Action    |                    |                    |                     |
|---------|---------------------------------|---|--|---------------------|--|---|----------------------|--------------------|--------------------|---------------------|
|         | Requirement                     | Facilities/ Services                      | Description  | Date first reported | Remarks/ Rationale for non-elimination |   | Facilities/ Services | Executing body     | Date of completion | Priority for action |
| 1       | MID eANP VOL II, Table CNS II-3 | ATS Direct Speech circuit Ankara - Beirut | ATS Direct Speech Circuit between Ankara and Beirut is not implemented | Mar 2019            | -                                      | O | -                    | Lebanon and Turkey | Dec 2021           | B                   |

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

| Deficiencies in the CNS field |                                 |                      |  |                     |  |                      |                |                    |                     |
|-------------------------------|---------------------------------|----------------------|--|---------------------|--|----------------------|----------------|--------------------|---------------------|
| LIBYA                         |                                 |                      |  |                     |  |                      |                |                    |                     |
| Item No                       | Identification                  |                      | Deficiencies                           |                     |  | Corrective Action    |                |                    |                     |
|                               | Requirement                     | Facilities/ Services | Description                            | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body | Date of completion | Priority for action |
| 1                             | MID eANP Vol II, Table CNS II-4 | HF Service           | HF Service in Tripoli is unserviceable | Mar 2019            | - O                                    | -                    | Libya          | Dec 2021           | A                   |

| Deficiencies in the CNS field |                                |   |  |                     |  |  |                 |                    |                     |
|-------------------------------|--------------------------------|---|--|---------------------|--|--|-----------------|--------------------|---------------------|
| YEMEN                         |                                |   |  |                     |  |  |                 |                    |                     |
| Item No                       | Identification                 |   | Deficiencies   |                     |  | Corrective Action  |                 |                    |                     |
|                               | Requirement                    | Facilities/ Services  | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services   | Executing body  | Date of completion | Priority for action |
| 1                             | MID eANP VOL II Table CNS II-3 | ATS Direct speech Circuits Sana'a-Asmara, Sana'a-Djibouti, Sana'a-Mogadishu and Sana'a-Mumbai | ATS Direct speech circuits are not implemented between Sana'a-Mumbai a | Oct 1998            | - O                                    | Corrective Action Plan has not been formally provided by the State | Yemen and India | Dec 2021           | A                   |

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<sup>(1)</sup> Rationale for non-elimination: "F" = Financial

"H" = Human Resources

"S" = State (Military/political)

"O" = Other unknown causes

**APPENDIX E**

**Deficiencies in the MET field**  
**IRAQ**

| Item No | Identification  |   | Deficiencies   |                     |  | Corrective Action    |   |                    |                     |   |
|---------|---|---|--|---------------------|--|----------------------|---|--------------------|---------------------|---|
|         | Requirement   | Facilities/ Services  | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body  | Date of completion | Priority for action |   |
| 1       | Annex 3: Para 2.2                                       | QMS Implementation  | Lack of Implementation of QMS                                  | Sep 2014            | -                                      | O                    | Corrective Action Plan has not been formally provided by the State                                    | Iraq               | Dec 2022            | A |
| 2       | Annex 3; Para 9.1.4, 9.3.1, 9.4.1 and Appendix 2, 2.1.1 | WAFS forecasts required for briefing and flight documentation | Payment not made on time and SADIS service ceased per contract | Jan 2021            | SADIS Provider                         | F                    | Coordinate with the SADIS Manager (sadis.manager@metoffice.gov.uk) on payment to resume SADIS service | Iraq               | Dec 2022            | A |

**Deficiencies in the MET field**  
**JORDAN**

| Item No | Identification  |   | Deficiencies   |                     |  | Corrective Action    |   |                    |                     |   |
|---------|---|---|--|---------------------|--|----------------------|---|--------------------|---------------------|---|
|         | Requirement   | Facilities/ Services  | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body  | Date of completion | Priority for action |   |
| 1       | Annex 3; Para 9.1.4, 9.3.1, 9.4.1 and Appendix 2, 2.1.1 | WAFS forecasts required for briefing and flight documentation | Payment not made on time and SADIS service ceased per contract | Jan 2022            | SADIS Provider                         | F                    | Coordinate with the SADIS Manager (sadis.manager@metoffice.gov.uk) on payment to resume SADIS service | Jordan             | Dec 2022            | A |

**Deficiencies in the MET field**  
**LEBANON**

<sup>(1)</sup> Rationale for non-elimination: “F”= Financial                      “H”= Human Resources                      “S”= State (Military/political)                      “O”= Other unknown causes

| Item No | Identification   |   | Deficiencies  |                     |  | Corrective Action    |   |                    |                     |   |
|---------|--|---|---|---------------------|--|----------------------|---|--------------------|---------------------|---|
|         | Requirement  | Facilities/ Services  | Description   | Date first reported | Remarks/ Rationale for non-elimination               | Facilities/ Services | Executing body  | Date of completion | Priority for action |   |
| 1       | Annex 3: Para 2.2  | QMS Implementation  | Lack of Implementation of QMS                                 | Sep 2014            | (USOAP - CMA finding)                                | O                    | Corrective Action Plan has not been formally provided by the State                                    | Lebanon            | Dec 2022            | A |
| 2       | Annex 3: Para. 9.1.4, 9.3.1, 9.4.1 and Appendix 2, 2.1.1 | WAFS forecasts required for briefing and flight documentation | Payment not made on time and SADIS service ceased by contract | May 2016            | (METP WG-MOG: Status of implementation of SADIS FTP) | O                    | Coordinate with the SADIS Manager (sadis.manager@metoffice.gov.uk) on payment to resume SADIS service | Lebanon            | Dec 2022            | A |

## Deficiencies in the MET field

## LIBYA

| Item No | Identification  |   | Deficiencies   |                     |  | Corrective Action    |  |                    |                     |   |
|---------|---|---|--|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement   | Facilities/ Services  | Description  | Date first reported | Remarks/ Rationale for non-elimination               | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | Annex 3: Para 2.2                                       | QMS Implementation  | Lack of Implementation of QMS  | Sep 2014            | (USOAP - CMA finding)                                | O                    | Corrective Action Plan has not been formally provided by the State   | Libya              | Dec 2022            | A |
| 2       | Annex 3, Para 9.1.4, 9.3.1, 9.4.1 and Appendix 2, 2.1.1 | WAFS forecasts required for briefing and flight documentation | SADIS FTP not available due to necessary hardware and software not available | Jan 2019            | (METP WG-MOG: Status of implementation of SADIS FTP) | O                    | ICAO MID RO, SADIS Provider and Libya to coordinate on obtaining the necessary hardware and software to retrieve SADIS                       | Libya              | Dec 2022            | A |
| 3       | MID eANP VOL II, MET Table II-2                         | HLLB and HLLT METAR and 24-hour TAF; HLLS METAR               | HLLB and HLLT METAR and 24-hour TAF; HLLS METAR not                          | Nov 2021            | ROC Jeddah monthly OPMET monitoring                  | S                    | ICAO RO and Libya will investigate a method to disseminate OPMET data internationally as a contingency arrangement when AFS is not available | Libya              | Dec 2022            | A |

(1) Rationale for non-elimination: "F"= Financial

"H"= Human Resources

"S"= State (Military/political)

"O"= Other unknown causes

|  |  |  |                           |  |  |  |  |  |  |
|--|--|--|---------------------------|--|--|--|--|--|--|
|  |  |  | available internationally |  |  |  |  |  |  |
|--|--|--|---------------------------|--|--|--|--|--|--|

**Deficiencies in the MET field**  
**SUDAN**

| Item No | Identification                  |  | Deficiencies   |                     |  | Corrective Action    |  |                    |                     |   |
|---------|---------------------------------|--|--|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement                     | Facilities/ Services                                     | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | MID eANP VOL II, MET Table II-2 | HSSK and HSPN METAR and 30-hour TAF; HSOB and HSNN METAR | HSSK and HSPN METAR and 30-hour TAF; HSOB and HSNN METAR not available internationally | Oct 2021            | ROC Jeddah monthly OPMET monitoring    | S                    | Corrective Action Plan has not been formally provided by the State | Sudan              | Dec 2022            | A |

**Deficiencies in the MET field**  
**SYRIA**

| Item No | Identification                  |                            | Deficiencies   |                     |  | Corrective Action    |  |                    |                     |   |
|---------|---------------------------------|----------------------------|--|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement                     | Facilities/ Services       | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | MID eANP VOL II, MET Table II-2 | OSAP METAR and 24-hour TAF | OSAP METAR and 24-hour TAF not available internationally | Nov 2013            | -                                      | O                    | Corrective Action Plan has not been formally provided by the State                                 | Syria              | Dec 2022            | A |
| 2       | Annex 3: Para 2.2               | QMS Implementation         | Lack of Implementation of QMS                            | Sep 2014            | (USOAP - CMA finding)                  | O                    | Corrective Action Plan has not been formally provided by the State                                 | Syria              | Dec 2022            | A |
| 3       | Annex 3; Para 7.1               | SIGMET implementation      | Non-issuance of SIGMET information                       | Nov 2017            | (USOAP – CMA finding)                  | O                    | Corrective Action Plan has not been formally provided by the State Consider bi-lateral arrangement | Syria              | Dec 2022            | A |

<sup>(1)</sup> Rationale for non-elimination: “F”= Financial

“H”= Human Resources

“S”= State (Military/political)

“O”= Other unknown causes

**Deficiencies in the MET field**

**YEMEN**

| Item No | Identification                  |   | Deficiencies  |                     |  | Corrective Action    |  |                    |                     |   |
|---------|---------------------------------|---|---|---------------------|--|----------------------|--|--------------------|---------------------|---|
|         | Requirement                     | Facilities/ Services  | Description   | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body   | Date of completion | Priority for action |   |
| 1       | Annex 3: Para 2.2               | QMS Implementation  | Lack of Implementation of QMS   | Sep 2014            | -                                      | F<br>H               | A contract is being signed with an external quality consultant to assist in establishment & implementation of QMS in the provision of MET service by the end of year 2022.         | Yemen              | Dec 2022            | A |
| 2       | Annex 3; Para 7.1               | SIGMET implementation   | Non-issuance of SIGMET information  | Nov 2017            | -                                      | S                    | All OPMET (SIGMET) information is issued internally but not transmitted internationally due to war, considering a reconnection with another MET regional centre other than Jeddah. | Yemen              | Dec 2022            | A |
| 3       | MID eANP VOL II, MET Table II-2 | OYAA METAR and 30-hour TAF; OYHD, OYRN, OYSN, OYTYZ METAR and 24-hour TAF | OYAA METAR and 30-hour TAF; OYHD, OYRN, OYSN, OYTYZ METAR and 24-hour TAF not available internationally | Dec 2019            | annual OPMET monitoring                | Θ<br>S               | All OPMET information is issued internally but not transmitted internationally due to war, considering a reconnection with another MET regional centre other than Jeddah.          | Yemen              | Dec 2022            | A |

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<sup>(1)</sup> Rationale for non-elimination: “F”= Financial

“H”= Human Resources

“S”= State (Military/political)

“O”= Other unknown causes

## APPENDIX F

## Deficiencies in the SAR field

## IRAQ

| Item No | Identification     |                      | Deficiencies                               |                     |  | Corrective Action  |                |                    |                     |
|---------|--------------------|----------------------|--|---------------------|--|--|----------------|--------------------|---------------------|
|         | Requirement        | Facilities/ Services | Description                                | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services   | Executing body | Date of completion | Priority for action |
| 1       | Annex 12 Para. 2.1 | -                    | Lack of provision of required SAR services | Apr 2012            | - O                                    | Corrective Action Plan has not been formally provided by the State | Iraq           | Dec 2021           | A                   |

## Deficiencies in the SAR field

## KUWAIT

| Item No | Identification   |                      | Deficiencies   |                     |  | Corrective Action  |                |                    |                     |
|---------|--|----------------------|--|---------------------|--|--|----------------|--------------------|---------------------|
|         | Requirement  | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services   | Executing body | Date of completion | Priority for action |
| 1       | Annex 6 Part I chap. 6 and Part II chap. 2 Annex 10, Vol III, Chap. 5 Annex 12 para. 2.6.4 | ELT                  | Non-compliance with carriage of Emergency Locator Transmitter (ELT) requirements | Apr 2012            | - O                                    | Corrective Action Plan has not been formally provided by the State | Kuwait         | Dec 2021           | A                   |

## Deficiencies in the SAR field

## LEBANON

| Item No | Identification |                      | Deficiencies |                     |  | Corrective Action    |                |                    |                     |
|---------|----------------|----------------------|--------------|---------------------|--|----------------------|----------------|--------------------|---------------------|
|         | Requirement    | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services | Executing body | Date of completion | Priority for action |

<sup>(1)</sup> Rationale for non-elimination: "F" = Financial

"H" = Human Resources

"S" = State (Military/political)

"O" = Other unknown causes

|   | Requirement        | Facilities/<br>Services | Description                                   | Date first<br>reported | Remarks/ Rationale for non-<br>elimination | Facilities/ Services  | Executing<br>body | Date of<br>completion | Priority<br>for<br>action |
|---|--------------------|-------------------------|---|------------------------|--|---|-------------------|-----------------------|---------------------------|
| 1 | Annex 12 Para. 2.1 | -                       | Lack of provision of<br>required SAR services | Apr 2012               | - O  | Corrective Action<br>Plan has not been<br>formally provided by<br>the State | Lebanon           | Dec 2021              | A                         |

**Deficiencies in the SAR field**

**LIBYA**

| Item<br>No | Identification  |                         | Deficiencies  |                        |  | Corrective Action   |                   |                       |                           |
|------------|---|-------------------------|---|------------------------|--|---|-------------------|-----------------------|---------------------------|
|            | Requirement   | Facilities/<br>Services | Description   | Date first<br>reported | Remarks/ Rationale for non-<br>elimination | Facilities/ Services  | Executing<br>body | Date of<br>completion | Priority<br>for<br>action |
| 1          | Annex 6 Part I chap. 6 and<br>Part II chap. 2 Annex 10,<br>Vol III, Chap. 5 Annex 12<br>para. 2.6.4 | -                       | Non-compliance with<br>carriage of Emergency<br>Locator Transmitter (ELT)<br>requirements | Dec 2014               | - H S O                                    | Corrective Action<br>Plan has not been<br>formally provided by<br>the State | Libya             | Dec 2021              | A                         |
| 2          | Annex 12 Para. 2.1  | -                       | Lack of provision of<br>required SAR services   | Dec 2014               | - H S O                                    | Corrective Action<br>Plan has not been<br>formally provided by<br>the State | Libya             | Dec 2021              | A                         |

**Deficiencies in the SAR field**

**SYRIA**

| Item<br>No | Identification |  | Deficiencies |  |  | Corrective Action |  |  |  |
|------------|----------------|--|--------------|--|--|-------------------|--|--|--|
|------------|----------------|--|--------------|--|--|-------------------|--|--|--|

<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes

|   | Requirement  | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services   | Executing body | Date of completion | Priority for action |
|---|--|----------------------|--|---------------------|--|--|----------------|--------------------|---------------------|
| 1 | Annex 12 Para. 2.1   | -                    | Lack of provision of required SAR services                                       | Apr 2012            | - O                                    | Corrective Action Plan has not been formally provided by the State | Syria          | Dec 2021           | A                   |
| 2 | Annex 6 Part I chap. 6 and Part II chap. 2 Annex 10, Vol III, Chap. 5 Annex 12 para. 2.6.4 | -                    | Non-compliance with carriage of Emergency Locator Transmitter (ELT) requirements | Apr 2012            | - O                                    | Corrective Action Plan has not been formally provided by the State | Syria          | Dec 2021           | A                   |

**Deficiencies in the SAR field**

**YEMEN**

| Item No | Identification   |                      | Deficiencies   |                     |  | Corrective Action  |                |                    |                     |
|---------|--|----------------------|--|---------------------|--|--|----------------|--------------------|---------------------|
|         | Requirement  | Facilities/ Services | Description  | Date first reported | Remarks/ Rationale for non-elimination | Facilities/ Services   | Executing body | Date of completion | Priority for action |
| 1       | Annex 12 Para. 2.1   | -                    | Lack of provision of required SAR services                                       | Apr 2012            | - O                                    | Corrective Action Plan has not been formally provided by the State | Yemen          | Dec 2021           | A                   |
| 2       | Annex 6 Part I chap. 6 and Part II chap. 2 Annex 10, Vol III, Chap. 5 Annex 12 para. 2.6.4 | -                    | Non-compliance with carriage of Emergency Locator Transmitter (ELT) requirements | Apr 2012            | - O                                    | Corrective Action Plan has not been formally provided by the State | Yemen          | Dec 2021           | A                   |

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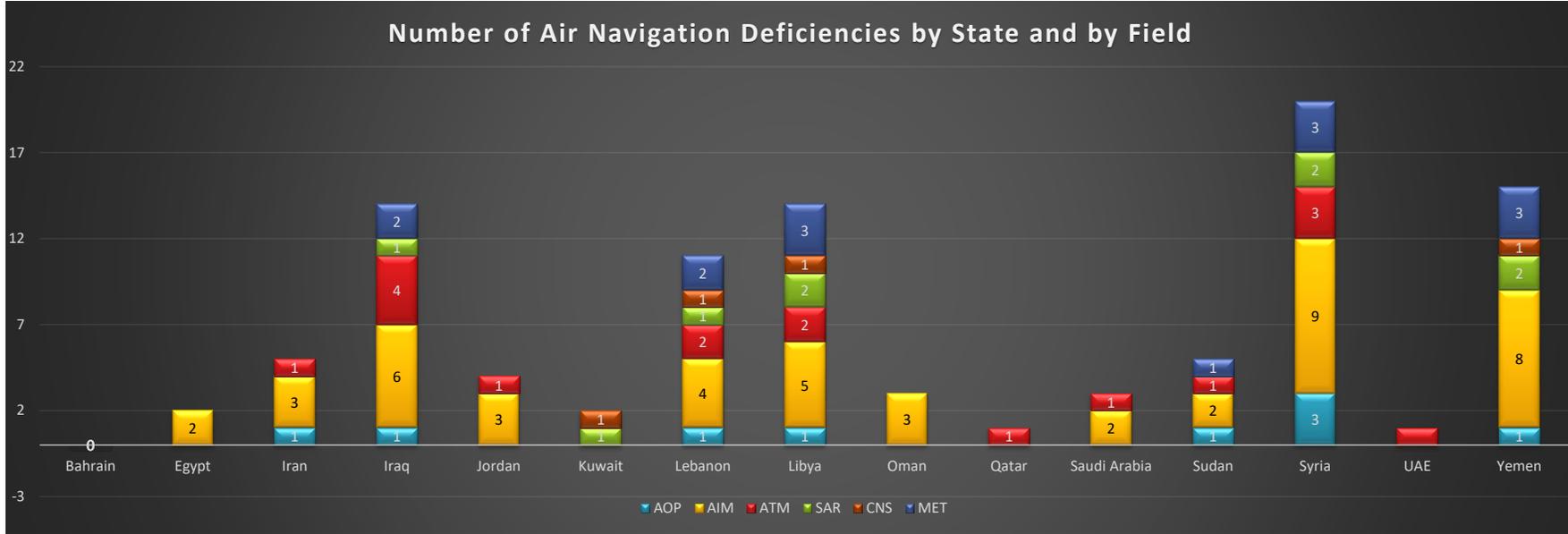
<sup>(1)</sup> Rationale for non-elimination: “F” = Financial

“H” = Human Resources

“S” = State (Military/political)

“O” = Other unknown causes





Deficiencies to be approved by MIDANPIRG/21

|              | Bahrain  | Egypt    | Iran     | Iraq      | Jordan   | Kuwait   | Lebanon   | Libya     | Oman     | Qatar    | Saudi Arabia | Sudan    | Syria     | UAE      | Yemen     | Total      |
|--------------|----------|----------|----------|-----------|----------|----------|-----------|-----------|----------|----------|--------------|----------|-----------|----------|-----------|------------|
| AOP          | 0        | 0        | 1        | 1         | 0        | 0        | 1         | 1         | 0        | 0        | 0            | 1        | 3         | 0        | 1         | 9          |
| AIM          | 0        | 2        | 3        | 6         | 3        | 0        | 4         | 5         | 3        | 0        | 2            | 2        | 9         | 0        | 8         | 47         |
| ATM          | 0        | 0        | 1        | 4         | 1        | 0        | 2         | 2         | 0        | 1        | 1            | 1        | 3         | 1        | 0         | 17         |
| SAR          | 0        | 0        | 0        | 1         | 0        | 1        | 1         | 2         | 0        | 0        | 0            | 0        | 2         | 0        | 2         | 9          |
| CNS          | 0        | 0        | 0        | 0         | 0        | 1        | 1         | 1         | 0        | 0        | 0            | 0        | 0         | 0        | 1         | 4          |
| MET          | 0        | 0        | 0        | 2         | 0        | 0        | 2         | 3         | 0        | 0        | 0            | 1        | 3         | 0        | 3         | 14         |
| <b>TOTAL</b> | <b>0</b> | <b>2</b> | <b>5</b> | <b>14</b> | <b>4</b> | <b>2</b> | <b>11</b> | <b>14</b> | <b>3</b> | <b>1</b> | <b>3</b>     | <b>5</b> | <b>20</b> | <b>1</b> | <b>15</b> | <b>100</b> |

Deficiencies approved by MIDANPIRG/20

|              | Bahrain  | Egypt    | Iran     | Iraq      | Jordan   | Kuwait   | Lebanon   | Libya     | Oman     | Qatar    | Saudi Arabia | Sudan    | Syria     | UAE      | Yemen     | Total      |
|--------------|----------|----------|----------|-----------|----------|----------|-----------|-----------|----------|----------|--------------|----------|-----------|----------|-----------|------------|
| AOP          | 0        | 0        | 1        | 1         | 0        | 0        | 1         | 1         | 0        | 0        | 0            | 1        | 3         | 0        | 1         | 9          |
| AIM          | 0        | 2        | 3        | 7         | 3        | 0        | 4         | 5         | 3        | 0        | 2            | 2        | 9         | 0        | 8         | 48         |
| ATM          | 0        | 1        | 1        | 4         | 1        | 1        | 2         | 2         | 0        | 1        | 1            | 1        | 3         | 1        | 0         | 19         |
| SAR          | 0        | 0        | 0        | 1         | 0        | 1        | 1         | 2         | 0        | 0        | 0            | 0        | 2         | 0        | 2         | 9          |
| CNS          | 1        | 1        | 1        | 1         | 1        | 2        | 2         | 1         | 1        | 1        | 1            | 1        | 0         | 1        | 1         | 16         |
| MET          | 0        | 0        | 0        | 2         | 1        | 0        | 2         | 3         | 0        | 0        | 0            | 1        | 3         | 0        | 3         | 15         |
| <b>TOTAL</b> | <b>1</b> | <b>4</b> | <b>6</b> | <b>16</b> | <b>6</b> | <b>4</b> | <b>12</b> | <b>14</b> | <b>4</b> | <b>2</b> | <b>4</b>     | <b>6</b> | <b>20</b> | <b>2</b> | <b>15</b> | <b>116</b> |

|                           | Bahrain | Egypt | Iran | Iraq | Jordan | Kuwait | Lebanon | Libya | Oman | Qatar | Saudi Arabia | Sudan | Syria | UAE | Yemen | Total |
|---------------------------|---------|-------|------|------|--------|--------|---------|-------|------|-------|--------------|-------|-------|-----|-------|-------|
| MIDANPIRG/20 deficiencies | 1       | 4     | 6    | 16   | 6      | 4      | 12      | 14    | 4    | 2     | 4            | 6     | 20    | 2   | 15    | 116   |
| MIDANPIRG/21 deficiencies | 0       | 2     | 5    | 14   | 4      | 2      | 11      | 14    | 3    | 1     | 3            | 5     | 20    | 1   | 15    | 100   |
|                           |         |       |      |      |        |        |         |       |      |       |              |       |       |     |       |       |

