

European Aviation Safety Agency

Comment-Response Document 2016-10

Appendix to ED Decision 2017/017/R

RELATED NPA 2016-10 — RMT.0591 — 10.07.2017

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1. Summary of the outcome of the consultation

EASA received 55 comments in total from all interested parties. The distribution of the commentators and the comments is presented in the Explanatory Note to ED Decision 2017/017/R. In paragraph 2.4. of the Explanatory Note, the stakeholders' views are presented along with the position taken by EASA.

2. Individual comments (and responses)

In responding to comments, a standard terminology has been applied to attest EASA's position. This terminology is as follows:

- (a) **Accepted** EASA agrees with the comment and any proposed amendment is wholly transferred to the revised text.
- (b) **Partially accepted** EASA either agrees partially with the comment, or agrees with it but the proposed amendment is only partially transferred to the revised text.
- (c) **Noted** EASA acknowledges the comment but no change to the existing text is considered necessary.
- (d) **Not accepted** The comment or proposed amendment is not shared by EASA.

2.1. CRD table of comments, responses and resulting text

(General Comments)

comment

comment by: Federal Office of Civil Aviation (FOCA), Switzerland

The Federal Office of Civil Aviation (FOCA) appreciates the opportunity to comment on this NPA and congratulates the Agency for this great work.

response

Noted.

comment

17

7

comment by: CAA-NL

First of all the CAA Netherlands would like to thank EASA for the opportunity to comment on the NPA 2016-10 with amendment 2 of the AMC/GM for aerodromes. The CAA NL considers it important that the ICAO Annex 14, Vol. I, standards and recommended practices are implemented in the EASA Aerodrome Regulation in due time and supports this activity by EASA.

response

Noted.

comment

34

comment by: UAF (Union des Aéroports Français)

Attachment #1

<u>UAF comments (comments are in French due to very limited time to answer)</u>

L'UAF regrette, une nouvelle fois le peu de temps donné (1 mois) pour la consultation.

Il est à noter que les amendements proposés relatifs à la sécurité opérationnelle en période de travaux s'intéressent à un domaine sensible pour les opérations en vol pour lesquels les aérodromes ne disposaient à ce jour d'aucune aide pratique. Cependant, sur le principe, une concertation globale et proactive avec l'industrie — qui a pallié d'elle-même à ce vide réglementaire en développant des pratiques communes — sur la publication de standards sur ces aspects auraient dû être menée plus en amont.

Il est joint un guide relatif à la sécurité des travaux rédigé par les spécialistes aéroportuaires. Ce guide vise à améliorer la sécurité lors de travaux afin de garantir aux opérations aérienne un niveau de sécurité élevé. Ce guide rappelle les differentes réglementations et textes en la matière (ICAO, EASA, FAA, ..) et est complêté de bonnes pratiques qui ont faites leur preuves.

response

Noted.

EASA decided to have a one (1) month consultation period because the changes were very few and non-controversial. The only proposal that triggered some comments was the introduction of ARIWS. In this case, for reasons explained in the response provided by EASA, the introduction of ARIWS has been consulted again though NPA 2017-04 for CS-ADR-DSN Issue 4.

Concerning the attached document containing proposals for apron markings and markings during construction works, EASA is of the opinion that they are not relevant to the content of this NPA and that they are mainly related to Certification Specifications.

comment

45

comment by: Groupe ADP

Groupe ADP support those amendements (with a few comments).

As far as ARIWS is concerned, we would like to mention the need to introduce new items in the relevant rules on recommandations for flight crew actions and Air Traffic services consistent with ch. 21.2 and 21.4 of Attachment A of Annex 14 7th Ed.

response

Noted

EASA will examine the possibility of including the relevant recommendations for air operations and air traffic services at a later stage

Executive Summary

p. 1

comment

21

comment by: Flughafen Berlin Brandenburg GmbH

While this NPA addresses AMC/GM only (as per title), changes (should) relate to the CS part as well. Consequently, deletions/modifications within the CS belong to this NPA.

Furthermore, FBB advocates for a consolidated approach to all those future rulemaking tasks within the aerdrome rules that affect both, AMC and CS.

response

Accepted

EASA will not include in this Decision the proposed AMC and GM for ARIWS. In order to ensure a more complete and transparent picture on the subject, the provisions have been consulted again in the NPA 2017-04 for CS-ADR-DSN Issue 4.

2. Explanatory Note - 2.4. Overview of the proposed amendments

p. 5-6

comment

22

comment by: Flughafen Berlin Brandenburg GmbH

"The lights characteristics have already defined in ICAO Annex 14 and are in the process of

being transposed into EASA CS-ADR.DSN."

In the future it would be beneficial to cover the technical and organisational aspects of new infrastructure components within a single NPA.

response

Accepted

EASA will not include in this Decision the proposed AMC and GM for ARIWS. In order to ensure a more complete and transparent picture on the subject, the provisions have been consulted again in the NPA 2017-04 for CS-ADR-DSN Issue 4.

comment

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comment by: Airbus

GM1 ADR-OPS.A.005 Aerodrome data

Current NPA 2016-10 proposes only introduction of data regarding the installation of an aircraft arresting system.

Airbus would propose to have also introduction of data related to the runways and taxiways shoulder characteristics such as width and nature (paved, stabilized).

It has to be noted that such width and associated precision are mentioned in (b) of AMC1 ADR.OPS.A.010 "GENERAL REQUIREMENTS" paragraph:

"(b) The aerodrome operator should determine and report aerodrome-related aeronautical data in accordance with the accuracy and integrity requirements set in the following tables:" Then shoulders width accuracy is mentioned in Table 5 - Length/distance/dimension of AMC1 ADR.OPS.A.010.

If this addition cannot be done upon the opportunity of this NPA, we would recommend to have this topic discussed in a next NPA.

response

Noted

The purpose of this NPA is to introduce provisions stemming from ICAO Annex 14, Amendment 13. The proposal to provide also information on runway and taxiway shoulders will be assessed by EASA, and, if it is considered necessary, it will be included in a future rulemaking task.

comment

33

comment by: daa - Dublin & Cork airports

Guidance should be provided by EASA with regard to what constitutes: "short duration" (Is this less than 6 months for example?). Adequate warning can be facilitated generally through NOTAMs and other operational notices but what provisions are in place for emergency works under this AMC?

Greater clarity should be given as to when these requirements apply and adequate provision for emergency works to be undertaken where these requirements cannot be taken into account made.

response

Noted

EASA wishes to thank DAA for raising this issue. EASA believes that the determination of the 'short duration' of the runway and taxiway closures needs to be discussed with the stakeholders, therefore, additional guidance material will be provided in the next amendment (3) of the AMC/GM.

3. Proposed amendments - GM1 ADR.OPS.A.005

p. 7

comment

8

comment by: French CAA

France agrees with this amendment

response

Noted.

comment

31 🏶

comment by: Airbus

GM1 ADR-OPS.A.005 Aerodrome data

Current NPA 2016-10 proposes only introduction of data regarding the installation of an aircraft arresting system.

Airbus would propose to have also introduction of data related to the runways and taxiways shoulder characteristics such as width and nature (paved, stabilized).

It has to be noted that such width and associated precision are mentioned in (b) of AMC1 ADR.OPS.A.010 "GENERAL REQUIREMENTS" paragraph:

"(b) The aerodrome operator should determine and report aerodrome-related aeronautical data in accordance with the accuracy and integrity requirements set in the following tables:" Then shoulders width accuracy is mentioned in Table 5 – Length/distance/dimension of AMC1 ADR.OPS.A.010.

If this addition cannot be done upon the opportunity of this NPA, we would recommend to have this topic discussed in a next NPA.

response

Noted.

The purpose of this NPA is to introduce provisions stemming from ICAO Annex 14, Amendment 13. The proposal to provide also information on runway and taxiway shoulders will be assessed by EASA, and, if it is considered necessary, it will be included in a future rulemaking task.

3. Proposed amendments - AMC2 ADR.OPS.B.030

p. 7

comment

comment by: Brussels Airport

The NPA 2016-10 says in §2.3 concerning ARIWS, "the installation of the system is not a requirement. The decision to install such a system depends on local conditions..."

But in the regulation itself AMC2 ADR.OPS.B.030, you can't find back this way of thinking from the explanatory note and what is written in Amendment 13 already taken over by the new published ICAO Annex 14 7th edition of July 2016.

Annex 14 is very clear in their new inserted § 9.12 about ARIWS: note 1 says "the inclusion of detailed specification for an ARIWS in this section is not intended to imply that an ARIWS has to be provided at an aerodrome".

§ 9.12.1 and §9.12.2 starts even stronger with the wording "Where an ARIWS is installed at an aerodrome, ..."

Why has EASA (forgotten?) to take this over in their AMC2 ADR.OPS.B.030....???

So I believe we have to add this wording also to the AMC because nobody will later remember the intention as mentioned in the explanatory note of this NPA.

My proposition is to add the ICAO Annex 14 wording to be in line with ICAO and to change the text as follows :

AMC2 ADR OPS.B.030 Surface movement guidance and control system

AUTONOMOUS RUNWAY INCURSION WARNING SYSTEM (ARIWS)

Where an ARIWS is installed at an aerodrome, an ARIWS:

(a) should provide autonomous detection of a potential incursion or of the occupancy of an active runway and a direct warning to a flight crew or vehicle operator;

(b).....

response

Noted

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted again in the NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

3

comment by: Jan Loncke

The currently proposed text may give the incorrect impression that a ARIWS is (or will be mandated), which is not at all the case.

When the AMC will be approved and incorporated in the regulation, the text in the explanatory note (§ 2.3) stating that the system is <u>not</u> a requirement, may be forgotten altogether.

The idea behind the fact that EASA has decided to include this AMC with the purpose to ensure that if such a system is installed, its functionality should meet the operational needs mentioned, is commendable. But in my humble opinion, the proposed text in the AMC2 ADR.OPS.B.030, which is the text that will show up in the regulations (annexes to decisions, published in consolidated versions, etc.) will not mention the fact that such a system is not mandatory.

Therefore, I believe that the original text as mentioned in the ICAO Annex 14 amendment reflects the true intention in a better way.

Subsequently, I'd like to suggest the following to change the text of AMC2 ADR.OPS.B.030:

AMC2 ADR.OPS.B.030 Surface movement guidance and control system

AUTONOMOUS RUNWAY INCURSION WARNING SYSTEM (ARIWS)

Where an ARIWS is installed at an aerodrome, an ARIWS:

(a) ...

response

Noted

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted again in the NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

comment by: Swedish Transport Agency

EASA has added new AMC (AMC2 ADR.OPS.B.030) containing operational requirements for an autonomous runway incursion warning system (ARIWS). This concept is a major leap in the right direction to reduce runway incursions and Sweden fully supports the idea with ARIWS.

EASA state in the RIA that the installation of the system is not a requirement. Sweden fully supports this idea. The need to install an ARIWS must be performance based. However, this is not fully stated in the AMC. Therefore Swedish Transport Agency's proposes to change the beginning of the paragraph to:

AUTONOMOUS RUNWAY INCURSION WARNING SYSTEM (ARIWS) Where an ARIWS is installed, the system:

response

Noted

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted again in the NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

comment by: Federal Office of Civil Aviation (FOCA), Switzerland

Comment FOCA: The description of the function of an ARIWS in an AMC means that Aerodrome Operator have to implement this system. In a same way as for stopways in ICAO regulation, we would like to specify that such warning system is not mandatory but in case an aerodrome owns one, it has to fulfill some requirements.

Proposed Text:

AUTONOMOUS RUNWAY INCURSION WARNING SYSTEM (ARIWS) Where provided, an ARIWS: [...]

response

Noted

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted again through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

comment by: French CAA

The ICAO sentence from article 9.12.1 should have been kept.

- At first to enhance conspicuity that this installation is not mandatory, France proposes adding the following sentence at the beginning of this AMC: "Where an ARIWS is installed at an aerodrome ...". Indeed such a system could be implemented at very big aerodromes only, they should not be mandatory at every aerodrome.
- In (b), we propose deleting the terms "be powered which are not in the iCAO text and they can be misleading (What is intended by "independently powered": separate circuits? separate feeders? separate power plants?)
- in (c) replace "failure or of a part of it" by "failure of part or all of it"

response

Noted

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

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comment by: Amsterdam Airport Schiphol - AMS/EHAM (and D.A.A)

An ARIWS when installed

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

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comment by: CAA-NL

AMC2 ADR OPS.B.030 surface movement guidance and control system

In the ICAO Annex 14, Vol. I, paragraph 9.12 is clearly stated that an ARIWS does not have to be provided at an aerodrome. This is mentioned in note 1 and 9.12.1 using the phrase "Where an ARIWS is installed at an aerodrome it shall ...".

The AMC2 ADR OPS.B.030 is not so clear however whether an ARIWS should be provided at aerodromes. GM ADR OPS.B.030 suggests in sub d that an aerodrome operator should at least assess the need for installing an ARIWS. This is not in line with the ICAO requirement. CAA Netherlands suggests to alter the text of AMC2 ADR OPS.B.030 into "Where an ARIWS is installed at an aerodrome it should ...".

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

20

comment by: Zürich Airport

Change the wording "detection" within para (a).

Justification:

The term 'detection of a potential incursion [...] on an active runway' may be misleading. It is understood that ARIWS provides a warning to a flight crew/vehicle operator when a departing/arriving/crossing aircraft or vehicle is present on the runway, regardless of having the required ATC clearance or not.

response

Noted.

23

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

comment by: Flughafen Berlin Brandenburg GmbH

It is common practice for aviation authorities to use the published AMC as an audit base in order to check if an airport fulfills the requirements of the basic regulation and the implementing rule.

Hence, it should be clarified that the new AMC2 ADR.OPS.B.030 provides information for those cases where an ARIWS is installed and that it does not require such an installation.

The proposal is to either modify the wording "Where provided, an ARIWS:

- (a) ...
- (b)...."

or to transfer the contents of AMC2 ADR.OPS.B.030 to a new section within the guidance material.

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

24

comment by: Flughafen Berlin Brandenburg GmbH

"Information on ARIWS characteristics and status should be provided to the appropriate aeronautical information services for promulgation in the Aeronautical Information Publication (AIP)."

It should be considered if the training syllabus for flight crews - see e.g. AMC2 FCL.615 (b) - could be amended in the long term in order to contain information on ARIWS characteristics.

Rationale:

Initial flight crew training should cover information on (additional/new) safety components and their functioning.

The same applies for subject 11: aerodromes within AMC1 ATCO.D.010(a)(2)(i) to AMC1 ATCO.D.010.(a)(2)(v).

response

Noted.

29

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

comment by: Ministry of Economics, Energy, Transport and Regional Development,
State of Hessen

AMC2 ADR.OPS.B.030 Surface movement guidance and control system

ICAO states in the corresponding new regulation Annex 14 - 9.12 Note 1 that the detailed specifications in this section are not intended to imply that an ARIWS has to be provided at an aerodrome. The EASA draft for AMC2 misses a concrete statement, in which cases an installation is required. Whereas ICAO consequently connects the specification for the cases by wording "where an ARIWS is installed", the AMC-wording misses a comparable dependence to the installation of an ARIWS. Nevertheless the scope of application and obligation of installation remains subject of interpretation and the legal basis might lead to

further discussions between competent authorities and aerodrome operators.

On the other hand the non-binding draft of GM2 ADR.OPS.B.030 states that not every entrance or threshold needs to be equipped with warning lights and that the operator should asses its needs individually depending on the characteristics of the aerodrome. It is juridical inconsistent to define a requirement in an AMC but to reduce the scope of application in a non-binding GM simultaneously. GM2 ADR.OPS.B.030 lit. (d) should rather get implemented into AMC2 ADR.OPS.B.030.

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

30 comment by: ACI Europe

As the Explanatory Note of NPA 2016-10 states that "concerning the ARIWS, the installation of the system is not a requirement. The decision to install such a system depends on local conditions...," ACI Europe strongly recommends EASA to clarify the intention not to require the system in the text of the corresponding AMC. ACI Europe proposes to amend the text of the AMC as follows:

AMC2 ADR OPS.B.030 Surface movement guidance and control system

AUTONOMOUS RUNWAY INCURSION WARNING SYSTEM (ARIWS)

Where an ARIWS is installed at an aerodrome, an ARIWS:

(a) should provide autonomous detection of a potential incursion or of the occupancy of an active runway and a direct warning to a flight crew or vehicle operator;

(b).....

Thereby the text would be better in line with ICAO Annex 14: An ARIWS is only a note in Annex 14. Note one clarifies that there is no intention of ICAO that such a system has to be installed at an aerodrome. Therefore 9.12.1 and 9.12.2 start with the wording "Where an ARWIS is installed at an aerodrome".

As the Explanatory Note of an NPA is not part of the later AMC-text the wording proposed by EASA could be understood by in a way which was obviously not intended: As an AMC describes how to comply with the Essential Requirements of the Basic Regulation and its Implementing Rules, it could be interpreted that there has to be an ARIWS in order to achieve compliance.

response

Noted.

35

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

comment by: *Belgian CAA*

1. Instead of adding ARIWS in a new AMC2 ADR.OPS.B.030 it is preferred to make it guidance

e.g. "GM2 ADR.OPS.B.030. ARIWS" since ARIWS is not to be mandatory.

2. It should be clear that all rulemaking on ARIWS is well foreseen of a part describing the "applicability". As it is not the objective to make ARIWS mandatory, but if used, to have uniform installation throughout the EU, the addition of e.g. "Where an ARIWS is installed at an aerodrome...." is needed.

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

38

comment by: Bavarian Aviation Authority

EASA arranged the specifications concerning ARIWS within the chapter "surface movement guidance and control system" (SMGCS), whereas ICAO arranged it within a separate chapter resident at the same level as SMGCS (not as a subitem).

The placement of this chapter chosen by EASA is very unfortunate, because the ARIWS needs to be separated from the SMGCS, since it deals primarily with the prevention of runway incursions. Additionally the placement within the rules may initiate that the ARIWS is part of the SMGCS or even needed in order to fulfil the requirement. Since this is not the case, it should be listed as a separate chapter.

It would be very helpful, if Note 1 from the ICAO Annex 14 would be integrated in the European set of rules as well ("The inclusion of detailed specifications for an autonomous runway incursion warning system (ARIWS) in this section is not intended to imply that an ARIWS has to be provided at an aerodrome.").

EASA stated that not every aerodrome needs to provide an ARIWS within the explanation of the NPA, yet it would be helpful to have that statement present within the regulations at all time in order to prevent future misunderstandings.

Furthermore it would be worth thinking about adding this sentence to all the requirements that have to be fulfilled when a certain infrastructural element is provided at an aerodrome, but do not mean that this certain element has to be provided at every aerodrome.

Following text from ICAO Annex 14 should also be added to the EASA requirements, to achieve a compliance within the different regulations and in order to prevent extensive rectification once those text passages will be applied:

c) its visual aid components, i.e. lights, shall be designed to conform with the relevant specifications in 5.3. +

Note 1.— An ARIWS may be installed in conjunction with enhanced taxiway centre line markings, stop bars or runway guard lights.

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA

2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

41

comment by: TRANSPORT AUTHORITY, Slovak republic

As AMCs are understood as a way how to comply with ADR.OPS.B.030 we would suggest adding parameter under which visibility conditions ARIWS should be used (as defined for SMGCS radar - RVR less than 350 m in GM1 ADR.OPS.B.030) otherwise our understanding of ADR.OPS.B.030 and AMC 2 would be that ARIWS must be installed at the aerodrome, and if AD is not ARIWS equipped, AltMOC must be issued. Or we suggest changing the status from AMC2 to GM.

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

44

comment by: Groupe ADP

To clarify the optional requirement of ARIWS (as in Annex 14) we propose to add on 3rd line: "Where installed at an aerodrome, an ARIWS:

(a) should ..."

response

Noted

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

48

comment by: ADV - German Airports Association

Die Einordnung im Abschnitt SMGSC ist sehr unglücklich gewählt, da das ARIWS nicht grundsätzlich als Rollführungssystem, wie es nach ADR.OPS.B.030 gefordert wird, zu verstehen ist, sondern eher in Verbindung mit der Verhinderung von Runway Incursions zu verbinden ist.

Die ICAO betrachtet das ARIWS ebenfalls separat und nicht als Teil des SMGCS. Die Eingruppierung ist vor allem verwirrend, weil sie impliziert, dass man das ARIWS für das SMGCS benötigen würde. Dem ist jedoch nicht so, daher sollte das ARIWS auch strukturell vom SMGCS getrennt und gesondert aufgeführt werden.

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

49

comment by: ADV - German Airports Association

Die EASA hat zwar in der einleitenden Erklärung zu dem NPA erwähnt, dass durch die Integration der Vorgabe nicht jeder Flugplatz ein ARIWS haben muss, jedoch wäre eine Erwähnung dieser Tatsache in den Vorgaben selbst immer präsent und könnte etwaig entstehenden Missverständnissen bei Zertifizierung und Aufsicht vorbeugen. Die entsprechende "Note 1" im ICAO Annex 14 9.12 bildet eine sinnvolle Grundlage und sollte ergänzt werden.

Eine klare Aussage, dass ein ARIWS keine Verpflichtung darstellt ist unverzichtbar. Die operativen Implikationen, die technische Komplexität, die extrem herausfordernde Implementierung und nicht zuletzt der wirtschaftliche Aufwand eines solchen Systems stehen in der Regel in keinem Verhältnis zur beabsichtigen Wirkung.

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

50

comment by: ADV - German Airports Association

Die autonome Arbeitsweise des ARIWS ist in der Praxis kaum umsetzbar. Es fehlt an Vorgaben auch für die Flugsicherung zur Integration in deren Verfahren und Systeme. Die Aussage der "Note 2" des ICAO Annex 14 9.12 ist daher zu ergänzen.

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

51

comment by: Copenhagen Airports A/S

In its current form the proposed AMC must be followed unless an alternative (AltMoC) is approved by the competent authority. Note 1 from ICAO Annex 14 regarding the use of ARIWS as an option/tool if necessary to prevent runway incursions should be reflected in the ADR.

The proposed text should be presented as a GM with the introduction:

"ARIWS may form part of aerodrome operators runway incursion prevention measures."

The proposed ARIWS should be implemented at the aerodrome from a risk-based approach.

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

3. Proposed amendments - GM2 ADR.OPS.B.030

p. 7-8

comment

comment by: UK CAA

Page No: 7 and 8

Paragraph No: GM2 ADR.OPS.B.030 Surface movement guidance and control system -General Description, sub-paragraph (d)

Comment: The ARIWS are not considered to be an ICAO SARP. Therefore the systems are not mandatory and are only required when all other runway incursion interventions have failed.

Justification: Clarity.

Proposed Text: The General Description, sub-paragraph (d) should be amended to include the Agency's words used in paragraph 2.3 on page 5 of the NPA, as follows:

"Concerning the ARIWS, the installation of the system is not a requirement. The decision whether to install such a system depends on local conditions and it may be implemented when cost is justified and other measures to mitigate the risk of runway incursions have been ineffective."

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

comment

10

comment by: French CAA

France agrees with this amendment

response

Noted.

25

comment

comment by: Flughafen Berlin Brandenburg GmbH

"red warning lights at the entrances will illuminate,..." For standardisation purposes it might be beneficial to describe location and characteristics of those red warning lights using a structure like

- (a) Applicability
- (b) Location and positioning
- (c) Characteristics

response

Noted.

EASA will not include the proposed AMC and GM for ARIWS in this Decision. In order to ensure completeness of the proposal, the provisions have been consulted through NPA 2017-04 for CS-ADR-DSN Issue 4. Nevertheless, the comment will be taken into consideration.

3. Proposed amendments - AMC4 ADR.OPS.B.070

p. 8

1

comment

comment by: Martins Freibergs

comment by: French CAA

The annotation part for this amendment states that the respective part of the CS-ADR.DSN.R.855 is transferred to Part-ADR.OPS as AMC4 ADR.OPS.B.070 with the same wording. However if find it impossible to find an effective version of the CS-ADR-DSN document in which the CS-ADR.DSN.R.855 (e) would stipulate that unserviceability markings should be placed across the entrance to the closed area at intervals not exceeding 3 m.

I find that both CS-ADR.DSN.R.855 (e) and ICAO Annex 14 v1 7.1.7 contain a provision that only unserviceability lights shall be placed across the entrance to the closed area.

Futhermore, unlike CS-ADR.DSN.R.855 (e) which specifies the design characteristics of unserviceability lights via reference to CS-ADR.DSN.R.870 (c)(2), the proposed AMC4 ADR.OPS.B.070 does not provide a reference to the specification of the unserviceability lights or unserviceability markings. One might infer that CS-ADR.DSN.R.870 are to be applied but this particular CS defines only unserviceability lights and unserviceability markers (i.e. conspicuous upstanding devices such as flags, cones, or marker boards). A specification of the marking to be used as the unserviceability markings would be necessary given that CS-ADR-DSN chapter L (markings) does not specify the unserviceability marking.

response

Noted.

EASA considers that there is a difference between a permanently and a temporarily closed runway or taxiway. Temporarily closures of runways and taxiways address operational issues, therefore, reference is made to the Part-ADR.OPS. The specifications of the markings, lights and markers are included in CS-ADR-DSN. Concerning the distance between the unserviceability markings the comment is correct and the text will be updated.

comment

11

We agree with this amendment but it must be completed by mentionning CS ADR.DSN.R.855 (c) and CS ADR.DSN.R.870 (c) related to the characteristics of closed markings and unserviceability lights and markings in order to be in compliance with ICAO standards. So we suggest the following sentences:

- (a) closed marking defined in CS ADR.DSN.R.855 (c) is displayed on a temporarily closed runway,
- c) In addition to closed markings, when the runway, or taxiway, or portion thereof, is closed and is intercepted by a usable runway or taxiway which is used at night, unserviceability lights and markings defined in CS ADR.DSN.R.870 (c) ...

In addition, we suggest to complete this AMC with requirements concerning the possibility to use lighted visual aid to indicate temporary runway closure (in the shape of letter " X" crossed at 90°) . This system prevents runway confusions in parallel runway configuration and it is used in several countries.

response

Accepted.

Text is updated accordingly. Concerning the use of lighted visual aids to indicate temporary closure of runway, EASA will further assess the proposal.

comment

26

comment by: Flughafen Berlin Brandenburg GmbH

This is not a 1:1-transfer of the wording of CS-ADR-DSN.R.855.

Without knowing the resulting new text of CS-ADR-DSN.R.855 a comment on this NPA is not complete.

response

Noted.

28

comment

comment by: Ministry of Economics, Energy, Transport and Regional Development,
State of Hessen

AMC4 ADR.OPS.B.070 Closed Runways and Taxiways, or parts thereof

It is appreciated to supplement the AMC corresponding to ADR.OPS.B.070 with the CS-contents. However, the scope of regulations regarding closed taxiways and runways or parts thereof should be clearly separated. The draft of AMC4 refers to closed taxiways as well as AMC3 ADR.OPS.B.070 already does (Marking and lightning of unserviceable areas comprises taxiways). The contents of AMC3 and AMC4 should either get combined or divided into an AMC dealing with closed runways and an AMC dealing with other unserviceable areas.

response

Partially accepted

The AMC has been updated to make reference to the relevant CSs. Concerning the proposal to combine the existing AMC3 ADR.OPS.B.070 with the new proposed AMC4 this is not accepted because AMC3 refers to cases where the portion of the taxiway is unserviceable but it is still possible for the aircraft to pass safely, while AMC4 refers to cases where the taxiway is closed totally for aircraft traffic.

comment

32 comment by: Airbus

Paragraph (b):

"(b) Lighting on a closed runway, or taxiway, or portion thereof is not operated, except as required for maintenance purposes; and"

What occurs during periods of time when lighting is operated for maintenance and when closed runway markings are not necessarily visible since not illuminated?

response

Noted.

EASA cannot describe all the cases. It is considered that the aerodrome operator will take all the necessary actions to avoid possible take-offs and landings from the closed runway or taxiway. The measures that should be applied depend on the duration of the closure and the operational characteristics of the aerodrome.

comment

comment by: **UA**

comment by: UAF (Union des Aéroports Français)

UAF comments (comments are in French due to very limited time to answer)

L'UAF soutient ce nouvel AMC.

response

Noted.

39

36

comment

comment by: Bavarian Aviation Authority

The placement of the part "closed runways and taxiways or parts thereof" as a subchapter of "aerodrome works safety" is seen very critically, because not every closing is due to work in progress at an aerodrome (such as emergencies, operational special provisions on short



notice or displaced thresholds for example).

This could lead to a failure to comply with the given requirements, because they are only connected, found and followed in conjunction with works safety. If it is needed to use those regulations for closings of different nature, one would have to apply a set of rules that actually are not applicable. Above named problem seems to contradict the thought of safety.

Rearranging that item (closed runways, taxiways or parts thereof) in a separate chapter according to ICAO Annex 14 would be very helpful.

response

Noted.

EASA acknowledges the fact that markings of closed runways or taxiways are not necessarily related with works. For the time being EASA decided to link the AMC with the rule referring to aerodrome works safety, however, EASA will examine the possibility to introduce a new rule in a future rulemaking task.

comment

52

comment by: ADV - German Airports Association

Die neue Eingliederung des Punktes "Closed Runways and Taxiways, or Parts thereof" unter dem Punkt "Aerodrome Works Safety" wird als kritisch gesehen, da nicht alle Sperrungen von Pisten oder Rollwegen im Bezug zu Arbeiten auf dem Flugplatz stehen (z.B. Notlagen, versetzte Schwelle, kurzfristige betriebliche Sonderregelungen oder -verfahren).

Dies könnte dazu führen, dass notwendige Vorgaben nicht eingehalten werden, weil diese fälschlicherweise nur in Verbindung mit Arbeiten auf dem Flugplatz verbunden, gesucht und eingehalten werden. Will man jedoch auch bei anderweitigen Sperrungen diese Vorgaben berücksichtigen, müsste man ein dafür nicht zutreffendes Kapitel anwenden. Beide beschriebenen Wege führen nicht zu einer Erhöhung der Sicherheit.

Analog der Vorgaben des ICAO Annex 14 ist dieser Punkt in gesondert aufzuführen.

response

Noted.

EASA acknowledges the fact that markings of closed runways or taxiways are not necessarily related with works. For the time being EASA decided to link the AMC with the rule referring to aerodrome works safety, however EASA will examine the possibility to introduce a new rule in a future rulemaking task.

comment

54

comment by: Copenhagen Airports A/S

Item (c) introduces an addition with "markings" across the entrance to the closed area when the runway or taxiway is intercepted by a runway or taxiway used to night operations.

It is assumed that the wording "marking" is related to "closed marking" and if not, it should be "Unserviceablity markers".

If the reference is "closed markings" it should be possible to use other measures, as mentioned in ICAO Annex 14 under item 7.1.4 note:

"When an area is temporarily closed, frangible barriers or markings utilizing materials other than paint or other suitable means may be used to identify the closed area."

And the interval of the markers should be "sufficiently close" and not with the maximum of 3 meters as proposed.

This way its harmonized with AMC3 ADR.OPS.B.070.

response

Accepted.

Point (c) has been revised and aligned with ICAO Annex 14 Standard 7.1.7. The specified distances refer to unserviceability lights when the closed runway or taxiway is intercepted by a usable runway or taxiway during night.

3. Proposed amendments - GM5 ADR.OPS.B.070

p. 8-9

comment

12

comment by: French CAA

France agrees with this amendment

response

Noted.

27

comment

comment by: Ministry of Economics, Energy, Transport and Regional Development, State of Hessen

It is not comprehensible why derogations of certain specifications are implemented in GM and not directly in an AMC. On this way the system of AMC defining the acceptable means and GM explaining how to interpret the AMC gets disordered. It is not comprehensible why to implement an exception from a mean not directly in an AMC.

response

Noted.

EASA transferred points (c), (d) and (e) of GM1 ADR.DSN.L.520 to a new GM5 ADR.OPS.B.070 because these markings are not meant to be used in the Certification Basis of the aerodrome. Also because they do not originate from ICAO Annex 14 it was not considered appropriate to be included as an AMC.

comment

37

comment by: UAF (Union des Aéroports Français)

UAF comments (comments are in French due to very limited time to answer)

Même si cette disposition n'est qu'un GM, nous la jugeons dangereuse. La mise en place de marquages opérationnels sur une piste en travaux ne devrait être recommandée que lorsque cette piste doit être utilisée pendant les travaux (ex. piste réduite). Or la GM ne fait pas mention de cette utilisation.

Régulièrement, des atterrissages ont lieu sur des pistes fermées en travaux (ex. : MAH, 2011 ; KTW, 2014; ELP, 2015; KRR, 2015). La mise en place de marquages caractéristiques comme ceux listés au §(a), pour certains recommandés "le plus tôt possible", est de nature à compromettre la sécurité aéronautique et celle du chantier. Au contraire, il est préférable de peindre les marquages opérationnels le plus tard possible pendant les travaux, et ce jusqu'aux dernières heures avant la réouverture aux opérations aériennes, afin de prévenir les atterrissages sur la piste encore en travaux et non prête à recevoir des vols.

L'UAF propose de soit supprimer cette GM, soit de renommer le GM : au lieu de USE OF TEMPORARY MARKINGS, écrire MINIMUM MARKINGS LIST WHEN REOPENING A RUNWAY **AFTER CONSTRUCTION** et de rajouter :

(a) Circumstances may occur when it is not practicable to install permanent markings, for example during runway resurfacing. In order to provide sufficient visual guidance to aircraft, the following markings should be considered as a minimum markings list when a runway is re-commissioned for operations.

response

Not accepted.

When the runway is closed for maintenance purposes (e.g. resurfacing) it is necessary to use the closed runway marking. There are many cases where the runway is resurfaced in parts, for example during the night, and used by aircraft during the day. In these cases, and in order to ensure flight safety, it is necessary to use some temporary markings as suggested in the GM.

comment

40

comment by: Bavarian Aviation Authority

The placement of the part "use of temporary markings" as a subchapter of "aerodrome works safety" is also seen very critically, because not every temporary marking is connected to work in progress at an aerodrome (such as operational special provisions on short notice for example).

This could lead to a failure to comply with the given requirements, because they are only connected, found and followed in conjunction with works safety. If it is needed to use those regulations for temporary markings in another content, one would have to apply a set of rules that actually are not applicable. Above named problem seems to contradict the thought of safety.

Rearranging that item (use of temporary markings) in a separate chapter according to ICAO Annex 14 would be very helpful.

Additionally it would be helpful, to arrange that chapter within the Certification Specifications as a subchapter of "markings". Splitting up the rules for markings (CS as well as AMC) might make the regulations itself more confusing and unclear and lead to a practice of non-compliance.

Should the splitting up of the rules be still within the interest of the EASA, there should be at least cross references from AMC to CS and vice versa.

response

Not accepted.

EASA believes that temporary markings are mainly connected with aerodrome works. The specific GM refers to runways and taxiways only and not to aprons where temporary markings may be used to facilitate, apart from works, temporary operational requirements. Furthermore, EASA decided to transfer points (c), (d) and (e) of GM1 ADR.DSN.L.520 to a new GM5 ADR.OPS.B.070 because these temporary markings are not meant to be used for the Certification Basis of the aerodrome.

comment

comment by: Groupe ADP

In subparts (c) and (d): the meaning of "...as soon as practicable ..." is unclear.

We understand it as " ... as soon as practicable just before or right after the re-opening.." but it should be clarified.

response

Noted.

46

EASA is in the opinion that, upon completion of the works, the markings referred in points (c) and (d) should be made available.

comment

53

comment by: ADV - German Airports Association

See Comment 52.

This Provision should be moved to CS. At least there need to be cross references.

response

Noted.

Temporary markings are not part of the Certification Basis.

3. Proposed amendments - AMC1 ADR.OPS.B.080

p. 9

13 comment

comment by: French CAA

France agrees with this amendment

response

Noted.

42

comment

comment by: TRANSPORT AUTHORITY, Slovak republic

Please specify, which are the applicable CSs for flags used to mark mobile objects. Only CSs for flags used to mark objects are present - CS ADR-DSN.Q845.

response

Accepted.

The AMC has been revised to include the characteristics of the flags.

3. Proposed amendments - AMC1 ADR.OPS.C.010

p. 9

comment

14

19

comment by: French CAA

France agrees with this amendment

response

Noted.

comment

comment by: Zürich Airport

Move (g) to AMC1 ADR.OPS.B.070 (f)

Justification:

ZRH supports this amendment regarding the aerodrome operator's responsibility to "ensure the work site is returned to operational use in a safe [...] manner" - see AMC1 ADR.OPS.B.070 (f). To determine, that the surface friction characteristics of a paved runway after construction or resurfacing achieve the design objectives should be a part of Aerodrome works safety within AMC1 ADR.OPS.B.070.

response

Noted.

EASA considers that the resurface of the runway is part of the maintenance activities with

the aim to ensure that runway surface friction characteristics achieve the design objectives.

3. Proposed amendments - GM3 ADR.OPS.C.010(b)(2)

p. 9-11

comment

15

comment by: French CAA

France agrees with this amendment

response

Noted.

43

comment

comment by: TRANSPORT AUTHORITY, Slovak republic

(2) We suggest specifying what is meant by "should be repaired within reasonable period".

response

Noted.

The guidance provides further information to the aerodrome operator on how to deal with surface irregularities. The intent of the phrase in question is to provide an indication that surface maintenance should be scheduled. EASA expects that, as soon as these irregularities have been identified, the aerodrome operator should put in place a maintenance plan.

comment

47

comment by: Groupe ADP

In subpart (a)1 the sentence "The runway may remain in service." does not have any interest from our point of view. We propose to delete it.

response

Noted.

EASA considers this as additional information for the aerodrome operator, however this does not prevent the aerodrome operator to close down the runway in order to fix the irregularities.

3. Appendix A - Attachments

AlfaACI_Guide_SignaTRA_V1-0.pdf
Attachment #1 to comment #34