

AIC A 06/19. Implementation of the 8.33 KHZ voice channel spacing for VHF voice communication below Flight Level (FL) 195 in København FIR following the Commission Implementing Regulation IR 1079/2012.

(Replaces AIC A 04/18. Vojens/Skrydstrup APP frequency updated).

This AIC contains information for the awareness of aircraft operators, airspace users, air navigation service providers and other ground stations regarding the 8.33 KHZ channel spacing capable radio requirements and associated exemptions.

1. Introduction

1. This circular provides notification in respect of the implementation of 8.33 KHZ channel spacing in Denmark.
2. The demand for VHF assignments in the aeronautical mobile radio communication service band 118 to 137 MHz continues to grow due to:
 - a. The creation and modification of ATC sectors;
 - b. The creation and modification of air traffic services such as approach, Tower and ATIS;
 - c. The provision of backup services and avoiding interference;
 - d. The provision of aeronautical operational control (AOC) services;
 - e. Accommodating VHF Digital Link services in the band 136.600 to 137 MHz.
3. In response to the increasing VHF frequency congestion, the Commission Implementing Regulation (EU) No 1079/2012 lays down requirements for voice channel spacing for the Single European Sky in the EUR region.

2. Operators

1. An operator shall not operate an aircraft **above FL 195** unless the aircraft radio equipment has the 8.33 KHZ channel spacing capability.
2. From 1. January 2018 an operator shall not operate an aircraft flying under instrument flight rules (IFR) in the København FIR unless the aircraft radio equipment has the 8.33 KHZ channel spacing capability (see 6. Exemptions item 1.c.).
3. From 1. January 2018 an operator shall not operate an aircraft flying under visual flight rules (VFR) unless the aircraft radio equipment has the 8.33 KHZ channel spacing capability (see 6. Exemptions item 1).

3. Air Navigation Service Providers and other ground stations

1. Air navigation service providers shall implement the notification and initial coordination processes in their flight data processing systems in accordance with Commission Regulation (EC) No 1032/2006 (1) as follows:
 - a. The information about the 8,33 KHZ channel spacing capability of a flight shall be transmitted between ATC units;
 - b. The information about the 8,33 KHZ channel spacing capability of a flight shall be made available at the appropriate working position;
 - c. The controller shall have the means to modify the information about the 8,33 KHZ channel spacing capability of a flight.
2. Unless exempted ref. 6 Exemptions item 2 or by COMMISSION IMPLEMENTING REGULATION (EU) No 1079/2012 Article 2 item 4 Air Navigation Service Providers and other ground stations shall ensure that by 31 December 2018 at the latest, all frequency assignments are converted to 8,33 KHZ channel spacing.

4. Equipment requirements

1. Air navigation service providers, operators and other users or owners of radios shall ensure that all radio equipment put into service includes the 8.33 KHZ channel spacing capability.
2. Air navigation service providers, operators and other users or owners of radios shall ensure that radios include the 8.33 KHZ channel spacing capability whenever they are subject to radio upgrades.

3. Users or owners of ground radios having the 8.33 KHZ channel spacing capability shall ensure that the performance of these radios and the transmitter/receiver ground constituent complies with the ICAO standards specified in point 1 of Annex II to EC 1079/2012.
4. Users or owners of aircraft radio equipment having the 8.33 KHZ channel spacing capability shall ensure that the performance of these radios comply with the ICAO standards specified in point 2 of Annex II to EC 1079/2012.

5. Integrated Initial Flight Plan Processing System (IFPS)

1. For a flight planning to operate in København FIR for which 8.33 channel spacing capability is required, the following apply:
 - a. Letter 'Y' shall be inserted in field 10 of the flight plan, for aircraft equipped with 8.33 KHZ capable radio equipment; or
 - b. For state aircraft not equipped with 8.33 KHZ capable radio equipment but equipped with UHF radio, letters 'U' and 'Z' shall be inserted in item 10a of the flight plan together with 'COM/EXM833' remark in field 18.
2. Special purpose flights with associated flight plans containing STS/HOSP or STS/SAR in the remark field, not equipped with 8.33 channel spacing capabilities will - although they are not exempted from the 8.33 KHZ equipment requirement - not be rejected by the IFPS.

6. Exemptions

1. Until 1. January 2023 exemptions from the requirement to be equipped with 8.33 KHZ channel spacing radio communications equipment for operation within København FIR are:
 - a. Aircraft exclusively operating VFR below FL 195 outside København TMA;
 - b. Aircraft operating VFR inside København TMA within active glider areas (ref. AIP Denmark ENR 5.5).
 - c. State aircraft fitted with UHF and 25 KHZ channel spacing radio communications equipment.
2. Until 1 January 2023 exemptions from the requirement for 8.33 KHZ channel spacing radio communications equipment are granted for the following ground stations (see next page):

Turn over

Location	Frequency	Service	Location	Frequency	Service
HERNING	121.000	A/G	AALBORG/AALBORG	123.975	APP
KRUSÅ/PADBORG	122.075	A/G	KOBENHAVN/ROSKILDE	125.525	APP
MORSØ	122.075	A/G	VOJENS/SKRYDSTRUP	124.100	APP
RANDERS	122.075	A/G	BILLUND	127.575	APP
HADERSLEV FLYVEPLADS	122.225	A/G	KOBENHAVN/KASTRUP	121.625	AS
VESTHIMMERLAND	122.225	A/G	KOBENHAVN/KASTRUP	121.900	AS
EJSTRUPHEDE	122.475	A/G	BILLUND	118.775	ATIS
HAMMER	122.475	A/G	AALBORG/AALBORG	120.475	ATIS
SILKEBORG/CHRISTIANSHEDE	122.475	A/G	KARUP	120.575	ATIS
KALUNDBORG	122.500	A/G	KOBENHAVN/KASTRUP	122.750	ATIS
LINDTORP	122.500	A/G	KOBENHAVN/KASTRUP	122.850	ATIS
TØNDER	122.500	A/G	KOBENHAVN/ROSKILDE	123.800	ATIS
ARNBORG	122.650	A/G	VOJENS/SKRYDSTRUP	133.900	ATIS
FREDERIKSUND NORD	122.650	A/G	VOJENS/SKRYDSTRUP	133.900	ATIS
GØRLØSE	122.650	A/G	KOBENHAVN/BOVBJERG ACC	124.000	FIS
LÆSØ	123.175	A/G	KOBENHAVN/LERBJERG ACC	127.075	FIS
ÆRØ	123.175	A/G	KOBENHAVN/KOLDING ACC	129.475	FIS
SYDFYN/TÅSINGE	123.400	A/G	KOBENHAVN/KASTRUP	131.400	OPC
KONGSTED	123.425	A/G	ANHOLT	131.500	OPC
SLAGLILLE	123.425	A/G	KOBENHAVN/KASTRUP	131.500	OPC
TØLLØSE	123.425	A/G	KOBENHAVN/ROSKILDE	131.500	OPC
HOLBÆK FLYVEKLUB	123.500	A/G	BILLUND	131.550	OPC
LEMVIG	123.500	A/G	BORNHOLM/ROENNE	131.550	OPC
RINGSTED	123.500	A/G	ESBJERG	131.550	OPC
SAMSØ	123.500	A/G	KARUP	131.550	OPC
VIBORG	123.500	A/G	ROSKILDE	131.550	OPC
BOLHEDE GLIDER	126.350	A/G	AALBORG/AALBORG	131.550	OPC
GESTEN	129.975	A/G	AARHUS	131.550	OPC
VØJSTRUP	129.975	A/G	BILLUND	131.800	OPC
LOLLAND-FALSTER/MARIBO	130.575	A/G	BILLUND	131.900	OPC
SKIVE	130.575	A/G	KOBENHAVN/KASTRUP	131.900	OPC
THISTED	118.125	A/G	VOJENS/SKRYDSTRUP	119.900	PAR
SINDAL/SINDAL	118.750	AFIS	KOBENHAVN/KASTRUP	118.100	TWR
ESBJERG	120.150	AFIS	VOJENS/SKRYDSTRUP	118.275	TWR
KOLDING/VAMDRUP	120.500	AFIS	AALBORG/AALBORG	118.300	TWR
STAUNING/STAUNING	121.400	AFIS	AARHUS	118.525	TWR
SONDERBORG/SONDERBORG	126.400	AFIS	KOBENHAVN/KASTRUP	118.575	TWR
BORNHOLM/ROENNE	118.325	APP	KOBENHAVN/KASTRUP	118.700	TWR
BILLUND	119.250	APP	KOBENHAVN/ROSKILDE	118.900	TWR
AARHUS	119.275	APP	BILLUND	119.000	TWR
KOBENHAVN/KASTRUP	119.350	APP	KOBENHAVN/ROSKILDE	119.650	TWR
ODENSE	119.525	APP			
KARUP	120.425	APP			
AALBORG/AALBORG	120.700	APP			

Air Navigation Service Providers and other ground stations shall ensure that all frequency assignments are converted to 8,33 KHZ channel spacing no later than 12 month after the expiry of the exemptions.

3. Until 1 January 2023 the following frequencies will remain 25 KHZ channels:

Glider Jylland north	123.375
Glider Jylland Middle	122.475
Glider Jylland south and fyn	129.975
Glider Sjælland west/Lolland/Falster	123.425
Glider East/Bornholm	122.650
Hangglider/Ultra light aircraft	130.125
Parachurting	130.125
Air to Air	129.800

7. Additional information

1. The complete content of the Commission Implementing Regulation (EU) No 1079/2012, laying down requirements for voice channel spacing for the Single European Sky can be consulted at:

<https://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:320:0014:0024:EN:PDF>

2. Additional information regarding the 8.33 KHZ channel spacing for VHF voice communication below FL 195 in English language are available via the EUROCONTROL website:

<http://www.eurocontrol.int/services/vhf-833-khz>

3. For more details regarding the flight planning requirements see the IFPS User's manual, section 47 referring to 8.33 KHZ CHANNEL SPACING.

<http://www.eurocontrol.int/sites/default/files/content/documents/nm/network-operations/HANDBOOK/ifps-users-manual-current.pdf>

Any queries and further guidance required as a result of this AIC should be addressed to:

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