

## GEN 3.4 COMMUNICATIONS SERVICES

### 1. 총칙

### 1 General

#### 1.1 책임기관

#### 1.1 Responsible authority

대한민국의 민간항공통신 및 항행안전시설에 대한 책임 기관은 국토교통부 항공정책실이다.

The responsible authority for the provision of civil aeronautical telecommunication and navigation facility services in the Republic of Korea is Office of Civil Aviation, Ministry of Land, Infrastructure and Transport.

국토교통부 항공정책실

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Ministry of Land, Infrastructure and Transport

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#### 1.2 관할구역

#### 1.2 Area of Responsibility

대한민국 민간항공통신 책임관할구역은 인천 비행정보구역으로 한다.

Area responsible for civil aeronautical telecommunication in the Republic of Korea is the same as Incheon FIR.

### 2. 항공고정업무

### 2. Aeronautical Fixed Service

항공기 안전운항 등에 필요한 전문을 항공고정국 상호간에 교환하기 위한 통신 업무(Operational hours : H24) 이다.

This service is provided for the interchange of message between aeronautical fixed stations, which is related to the safety of air navigation and to the regular, efficient and economical operation of air services.(Operational hours : H24)

#### 2.1 국제항공고정통신망(AFTN)

#### 2.1 Aeronautical Fixed Telecommunication Network(AFTN)

a. 국제항공고정통신망 회선도는 GEN 3.4-3과 같다.

a. International AFTN circuits are illustrated in GEN 3.4-3.

b. 국제항공고정통신망 운영절차는 원칙적으로 국제민간항공기구 부속서 10, 제2권을 적용한다.

b. International AFTN operations are applied in principle to the communication procedures of ICAO Annex 10, Volume II.

#### 2.2 국내항공고정통신망

#### 2.2 Domestic Aeronautical Fixed Telecommunication Network

a. 국내항공고정통신망 회선도는 GEN 3.4-3과 같다.

a. Domestic Aeronautical Fixed Telecommunication Network circuits are illustrated in GEN 3.4-3.

b. 국내항공고정통신망 운영절차는 원칙적으로 국제민간항공기구 부속서 10, 제2권을 적용한다.

b. Domestic AFTN operations are applied in principle to the communication procedures of ICAO Annex 10, Volume II.

### 3. 항공이동업무

### 3. Aeronautical Mobile Service

항공국과 항공기국 사이에 주로 항공교통관제업무, 항공로 정보제공업무 등을 무선전화에 의해 행하는 통신 업무이다.

This service is provided mainly to meet the requirements of the air traffic control service, aeronautical en-route information service and so forth by radio telephone between an A/G station and aircraft station.

#### 3.1 청취 및 운용시간

#### 3.1 Watch and Hours of Service

항공국은 3.4.3.5에 공시된 업무시간 및 주파수로 청취를 계속하여야 한다.

An aeronautical station in the mobile service should maintain continuous watch as hours of service and frequencies listed in 3.4.3.5. During its flight, an aircraft should maintain continuous watch as required by the aeronautical station and not cease watch, except for an emergency without informing the aeronautical station concerned.

비행중인 항공기국은 항공국의 주파수로 청취를 계속하여야 하며, 비상시를 제외하고는 항공국에 사전 통보 없이 청취를 중단해서는 안 된다.

### 3.2 통신의 설정

항공기국은 자국이 비행하고 있는 지역의 항공교통관제를 담당하는 항공국과 통신하여야 한다.

### 3.3 전문의 취급

서울 라디오에 의해 항공기국으로부터 수신된 정보는 AFTN 전문형식으로 항공사 또는 관련부처에 송달된다.

### 3.4 사용언어

공지통신에서 사용하는 언어는 통상 한국어나 영어를 사용한다.

### 3.5 서울라디오

국토교통부 관할 하에 운영되고 있는 서울라디오는 항공교통관제기관과 항공기 사이에 중요한 중계역할을 담당하고 있다. 그밖에 서울라디오는 항공고시보, 기상등과 같은 정보를 비행중인 항공기에 제공하며, 항공교통관제기관이 미치지 않는 지역에서의 위치보고, AIREP을 항공기로부터 수신하여 관련부처로 송달한다. 서울라디오의 사용주파수는 다음과 같다.(인천국제공항 지역에서의 1차주파수는 8903 kHz를 사용한다.)

### 3.2 Establishment of Communications

An aircraft should normally communicate with the air ground control radio stations which exercise air traffic control in the area in which it is flying.

### 3.3 Messages Handling

Information received from an aircraft by SEOUL Radio is transmitted in the form of AFTN message to the aircraft operating agency or the post concerned.

### 3.4 Language to be used

Language normally used in the air ground radio telephony communications should be either Korean or English.

### 3.5 SEOUL Radio

SEOUL Radio which is operated under the jurisdiction of The Ministry of Land, Infrastructure and Transport is in charge of a valuable link between ATC and an aircraft. Besides, such informations as NOTAM, weather and the like are given to an aircraft during its flight by SEOUL Radio, and SEOUL Radio receives position report and AIREP from an aircraft in the area beyond reaching of ATC authority and the above mentioned informations are transmitted to the post concerned. Frequencies of SEOUL Radio are as follows.(8903 kHz is used as a primary frequency within Incheon INTL Airport.)

Call sign	Frequencies	Hours of Operation	Remarks
SEOUL Radio	127.1 MHz, 3004 kHz, 4687 kHz, 6532 kHz, 8903 kHz, 10072 kHz, 13300 kHz, 13303 kHz, 13333 kHz, 17904 kHz, 17916 kHz	H24	MET Available

### 3.6 조종사는 항공교통관제기관 및 서울라디오와 긴밀한 협조를 통해 비행 중에 필요한 협력을 얻도록 한다.

### 3.6 A pilot will find ready help and cooperation during its flight working in close harmony with ATC and SEOUL Radio.

## 4. 항행안전무선업무

이용할 수 있는 항행안전무선시설은 다음과 같다.

- 무지향표지시설(NDB);
- 전방향표지시설(VOR);
- 거리측정시설(DME);
- 계기착륙시설(ILS);
- 레이더(RADAR);
- 전술항행표지시설(TACAN);
- 지상유도접근시설(GCA) : 지상유도접근시설을 사용하고자 하는 항공기는 사용채널에 대한 해당 항공교통관제기관으로부터 지시를 받아야 한다.

## 5. 적용할 수 있는 ICAO 서류

적용할 수 있는 국제민간항공기구 표준과 권고방식 및 절차는 아래 도서내용에 포함되어 있다.

- 부속서 제10권 - 항공통신
- DOC 8400 - 약어 및 부호
- DOC 8585 - 항공업무기관 및 항공사 약어명
- DOC 7910 - 지명약어

## 4. Radio Navigation Service

The following of radio aids are available for air navigation.

- Non-Directional radio Beacon(NDB);
- VHF Omni-directional Range(VOR);
- Distance Measuring Equipment(DME);
- Instrument Landing System(ILS);
- Radio Detection and Ranging(RADAR);
- Tactical Air Navigation(TACAN);
- Ground Controlled Approach(GCA) : Aircraft about to use GCA will receive instructions from appropriate ATC facility as to the channel to be used.

## 5. Applicable ICAO Documents

Applicable ICAO Standards, Recommended Practices and Procedures are contained in the following documents.

- ANNEX 10 - Aeronautical Telecommunications
- DOC 8400 - ICAO Abbreviations and Codes
- DOC 8585 - Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services
- DOC 7910 - Location Indicators

6. ATN / AFTN CIRCUIT

BEIJING COM CENTER ZBBBYFYX		SEOUL COM CENTER RKSSYFYX		FUKUOKA COM CENTER RJJJYFYX	
DOMESTIC AFTN LIST					
RKBBZSZX	KOMCC(SARSAT)	RKRRZQZF	INCHEON ACC		
RKDAYXYX	700 ATC SQ(MCRC)	RKRRZQZG	INCHEON ACC		
RKDAZQZF	DAEGU FDP SERVER ADDRESS	RKRRZQZX	INCHEON ACC		
RKDAZQZG	DAEGU FPL&MET SERVER ADDRESS	RKSIAARX	INCHEON AAR		
RKDAZQZX	DAEGU ACC	RKSIKALO	INCHEON KAL		
RKDAYFYX	DAEGU ACC	RKSIKALX	INCHEON KAL		
RKDAYNYO	DAEGU ACC NOTAM DB	RKSISHKO	SHARP INC.		
RKDAYNYS	DAEGU ACC NOTAM	RKSIYIYA	INCHEON ATIS		
RKDAYOYX	DAEGU ACC FLT INFO CENTER	RKSIYPYX	AVIATION MET OFFICE		
RKDAYOYE	DAEGU ACC FLT INFO CENTER	RKSIZAZS	SEOUL APP		
RKDAZQZE	DAEGU ACC	RKSIZPZG	FOIS SYSTEM		
RKDAZQZS	DAEGU ACC	RKSIZPZH	FOIS SYSTEM		
RKDAYIYT	DAEGU ACC KAC	RKSIZPZI	FOIS SYSTEM		
RKDAZAZS	ATFMS	RKSIZPZN	FOIS SYSTEM		
RKDAZAZX	ATFMS	RKSIZPZX	INCHEON AIS T1		
RKDAZEZA	ATMO FSMS	RKSIZPZB	INCHEON AIS T2		
RKDJKHAX	HELIKOREA	RKSIYPYS	AVIATION MET OFFICE		
RKJBYFYX	MUAN COM STN	RKSIZAZB	INCHEON IIAC		
RKJBYIYX	MUAN ATIS	RKSIZAZC	INCHEON IIAC		
RKJBZPZX	MUAN AIS	RKSIZAZD	INCHEON IIAC		
RKJBZTZX	MUAN TWR	RKSIZAZX	INCHEON IIAC		
RKJJYFYX	GWANGJU COM STN	RKSIZXFM	IIAC FIMS		
RKJJZAZX	GWANGJU APP	RKSLYAYX	MINISTRY OF LAND TRANSPORT		
RKJJZPZX	GWANGJU AIS	RKSLYLYX	FLT ACCIDENT INVEST BOARD		
RKJKZPZX	GUNSAN AIS	RKSLYNYS	MINISTRY OF LAND, INFRASTRUCTURE AND TRANSPORT		
RKJYZPZX	YEOSU AIS				
RKJYIYA	YEOSU ATIS	RKSSAARO	GIMPO AAR		
RKNWYFYX	WONJU COM STN	RKSSABLO	AIR BUSAN		
RKNWZPZX	WONJU AIS	RKSSADBS	KAC		
RKNYZPZX	YANGYANG AIS	RKSSASVO	GIMPO AIR SEOUL		
RKNYZTZX	YANGYANG TWR	RKSIAIHX	INCHEON AIH		
RKNYIYA	YANGYANG ATIS	RKSSSRO	EASTAR JET		
RKNYIYB	YANGYANG ATIS	RKSSSRX	EASTAR JET		
RKPCAARO	JEJU AAR	RKSSFGWO	FLY GANGWON		
RKPCYFYA	JEJU COM STN	RKSSHPBX	HANHWA		
RKPCYFYX	JEJU COM STN	RKSSJJAO	JEJU AIR		
RKPCYIYX	JEJU KAC	RKSSJJAS	JEJU AIR		
RKPCZAZS	JEJU APP(ARTS)	RKSSJNAX	JIN AIR		
RKPCZAZX	JEJU APP	RKSSKABO	AIR POHANG		
RKPCZPZA	JEJU AIS	RKSSKALC	GIMPO KAL		
RKPCZPZX	JEJU AIS	RKSSKALH	GIMPO KAL		
RKPCZTZA	JEJU ATIS	RKSSKALO	GIMPO KAL		
RKPCZTZX	JEJU TWR	RKSSKALS	GIMPO KAL		
RKPDZPZX	JEONGSEOK AIS	RKSSKALX	GIMPO KAL		
RKPDZTZX	JEONGSEOK TWR	RKSSTWBX	T'WAY AIR		
RKPKAARO	GIMHAE AAR	RKSSYAYX	GIMPO CNS STN		
RKPKYFYA	GIMHAE COM STN	RKSSYEYX	FLT INSP CENTER		
RKPKYFYB	GIMHAE COM STN	RKSSYFYD	COP-B SYSTEM		
RKPKYFYC	GIMHAE COM STN	RKSSYHYX	SEOUL FIRE AVIATION OFFICE		
RKPKYFYD	GIMHAE COM STN	RKSSYIYI	KAC		
RKPKYFYX	GIMHAE COM STN	RKSSYIYX	GIMPO KAC		
RKPKZPZX	GIMHAE AIS	RKSSYOYX	GIMPO NOTAM OFFICE		
RKPKZAZC	GIMHAE ARTS				
RKPKZAZX	GIMHAE APP				
RKPKZTZX	GIMHAE TWR				
RKPSZPZX	SACHEON AIS				
RKPUZPZX	ULSAN AIS				
RKPUYIYX	ULSAN ATIS				
RKRRYFYX	INCHEON ACC				
RKRRYIYT	INCHEON KAC				
RKRRYNYS	INTL NOTAM OFFICE				
RKRRYNYX	INTL NOTAM OFFICE				

RKSSYQYX	AIR NAV CENTRAL MANAGEMENT	
RKSSYSYX	SEOUL RADIO	
RKSSZKPY	SEL COM CENTER	
RKSSZPZX	GIMPO AIS	
RKSSZTZR	GIMPO ASDE1	
RKSSZTZX	GIMPO ASDE2	
RKSSZZZX	SEOUL RADIO	
RKTFYXYX	ROKAF MET HQ	
RKTHZPZX	POHANG GYEONGJU AIS	
RKTLZTZX	ULJIN TWR	
RKTLZPZX	ULJIN AIS	
RKTNPZX	DAEGU AIS	
RKTUYOYX	CHEONGJU AIS	
RKTUZA	CHEONGJU APP	
RKTUZA	CHEONGJU APP	
RKTUZA	CHEONGJU APP	
RKTUZA	CHEONGJU AIS	

7. 추가 정보

7. Miscellaneous

NIL

NIL

Change : Information of aerodrome name(Pohang → Pohang Gyeongju).