GEN 3.4 COMMUNICATIONS SERVICES

1. 총칙

1.1 책임기관

대한민국의 민간항공통신 및 항행안전시설에 대한 책임 기관은 국토교통부 항공정책실이다.

국토교통부 항공정책실

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전화: 044-201-4361 팩스: 044-201-5637

항공고정통신망: RKSLYAYX Website: http://www.molit.go.kr

1.2 관할구역

대한민국 민간항공통신 책임관할구역은 인천 비행정보구역으로 한다.

2. 항공고정업무

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

2.1 국제항공고정통신망(AFTN)

- a. 국제항공고정통신망 회선도는 GEN 3.4-3과 같다.
- b. 국제항공고정통신망 운영절차는 원칙적으로 국제민간 항공기구 부속서 10, 제2권을 적용한다.

2.2 국내항공고정통신망

- a. 국내항공고정통신망 회선도는 GEN 3.4-3과 같다.
- b. 국내항공고정통신망 운영절차는 원칙적으로 국제민간 항공기구 부속서 10, 제2권을 적용한다.

3. 항공이동업무

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

3.1 청취 및 운용시간

항공국은 3.4.3.5에 공시된 업무시간 및 주파수로 청취를 계속하여야 한다.

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

1 General

1.1 Responsible authority

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.

Office of Civil Aviation Ministry of Land, Infrastructure and Transport

11, Doum 6-ro, Sejong-si, 30103, Republic of Korea

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Website: http://www.molit.go.kr

1.2 Area of Responsibility

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

2. Aeronautical Fixed Service

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 Aeronautical Fixed Telecommunication Network(AFTN)

- a. International AFTN circuits are illustrated in GEN 3.4-3
- International AFTN operations are applied in principle to the communication procedures of ICAO Annex 10, Volume II

2.2 Domestic Aeronautical Fixed Telecommunication Network

- a. Domestic Aeronautical Fixed Telecommunication Network circuits are illustrated in GEN 3.4-3.
- Domestic AFTN operations are applied in principle to the communication procedures of ICAO Annex 10, Volume II

3. Aeronautical Mobile Service

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 Watch and Hours of Service

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.

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3.2 통신의 설정

항공기국은 자국이 비행하고 있는 지역의 항공교통관제 를 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 사 용하다

3.5 서울라디오

국토교통부 관할 하에 운영되고 있는 서울라디오는 항공 교통관제기관과 항공기 사이에 중요한 중계역할을 담당 하고 있다. 그밖에 서울라디오는 항공고시보, 기상등과 같은 정보를 비행중인 항공기에 제공하며, 항공교통관제 기관이 미치지 않는 지역에서의 위치보고, AIREP을 항 공기로부터 수신하여 관련부처로 송달한다. 서울라디오 의 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

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 협 조를 통해 비행 중에 필요한 협력을 얻도록 한다.
- 4. 항행안전무선업무

이용할 수 있는 항행안전무선시설은 다음과 같다.

- a. 무지향표지시설(NDB):
- b. 전방향표지시설(VOR);
- c. 거리측정시설(DME);
- d. 계기착륙시설(ILS);
- e. 레이더(RADAR);
- f. 전술항행표지시설(TACAN);
- g. 지상유도접근시설(GCA) : 지상유도접근시설을 사용하 고자 하는 항공기는 사용채널에 대한 해당 항공교통관 제기관으로 부터 지시를 받아야 한다.
- 5. 적용할 수 있는 ICAO 서류

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

- a. 부속서 제10권 항공통신
- b. DOC 8400 약어 및 부호
- c. DOC 8585 항공업무기관 및 항공사 약어명
- d. DOC 7910 지명약어

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

The following of radio aids are available for air navigation.

- a. Non-Directional radio Beacon(NDB):
- b. VHF Omni-directional Range(VOR);
- c. Distance Measuring Equipment(DME);
- d. Instrument Landing System(ILS);
- e. Radio Detection and Ranging(RADAR);
- f. Tactical Air Navigation(TACAN);
- g. 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.

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

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6. ATN / AFTN CIRCUIT

BEI	JING		SEC	DUL	FUKUOKA
COM CENTER				ENTER	COM CENTER
ZBBE	BYFYX		RKSS	YFYX	RJJJYFYX
			DOMESTIC	AFTN LIST	
RKBBZSZX	KOMCC	C(SARSAT)		RKRRZQZF	
RKDAYXYX	700 AT	C SQ(MCRC)	TCC	RKRRZQZG	
RKDAZQZF RKDAZQZG		FDP SERVER ADDR FPL&MET SERVER		RKRRZQZX	INCHEON ACC INCHEON AAR
RKDAZQZX	DAEGU		ADDITEOU	RKSIKALO	INCHEON KAL
RKDAYFYX	DAEGU			RKSIKALX	INCHEON KAL
RKDAYNYO		ACC NOTAM DB		RKSISHKO	SHARP INC.
RKDAYNYS		ACC NOTAM	TED	RKSIYIYA	INCHEON ATIS
RKDAYOYX RKDAYOYE		I ACC FLT INFO CEN I ACC FLT INFO CEN		RKSIYPYX RKSIZAZS	AVIATION MET OFFICE SEOUL APP
RKDAZQZE	DAEGU		ILIX	RKSIZPZG	FOIS SYSTEM
RKDAZQZS	DAEGU			RKSIZPZH	FOIS SYSTEM
RKDAYIYT	DAEGU	ACC KAC		RKSIZPZI	FOIS SYSTEM
RKDAZAZS	ATFMS			RKSIZPZN	FOIS SYSTEM
RKDAZAZX	ATFMS			RKSIZPZX RKSIZPZB	INCHEON AIS T1 INCHEON AIS T2
RKDAZEZA RKDJHKAX	ATMO HELIKO			RKSIYPYS	AVIATION MET OFFICE
RKJBYFYX		COM STN		RKSIZAZB	INCHEON IIAC
RKJBYIYX	MUAN	ATIS		RKSIZAZC	INCHEON IIAC
RKJBZPZX	MUAN			RKSIZAZD	INCHEON IIAC
RKJBZTZX	MUAN	TWR GJU COM STN		RKSIZAZX	INCHEON IIAC
RKJJYFYX RKJJZAZX		GJU APP		RKSIZXFM RKSLYAYX	IIAC FIMS MINISTRY OF LAND TRANSPORT
RKJJZPZX		GJU AIS		RKSLYLYX	FLT ACCIDENT INVEST BOARD
RKJKZPZX	GUNSA	N AIS		RKSLYNYS	MINISTRY OF LAND,
RKJYZPZX	YEOSU				INFRASTRUCTURE AND TRANSPORT
RKJYYIYA	YEOSU			RKSSAARO	
RKNWYFYX RKNWZPZX	WONJU	J COM STN I AIS		RKSSABLO RKSSADBS	
RKNYZPZX		ANG AIS		RKSSASVO	
RKNYZTZX		ANG TWR		RKSIAIHX	INCHEON AIH
RKNYYIYA		ANG ATIS		RKSSESRO	
RKNYYIYB		ANG ATIS		RKSSESRX	
RKPCAARO RKPCYFYA	JEJU A	OM STN	ı	RKSSFGWO RKSSHGGX	
RKPCYFYX		OM STN		RKSSHPBX	
RKPCYIYX	JEJU K			RKSSJJAO	JEJU AIR
RKPCZAZS		PP(ARTS)		RKSSJJAS	JEJU AIR
RKPCZAZX RKPCZPZA	JEJU A JEJU A			RKSSJNAX RKSSKABO	JIN AIR AIR POHANG
RKPCZPZX	JEJU A			RKSSKALC	GIMPO KAL
RKPCZTZA	JEJU A			RKSSKALH	GIMPO KAL
RKPCZTZX	JEJU T	WR		RKSSKALO	GIMPO KAL
RKPDZPZX		SEOK AIS		RKSSKALS	GIMPO KAL
RKPDZTZX RKPKAARO	JEONG GIMHAI	SEOK TWR FAAR		RKSSKALX RKSSTWBX	
RKPKYFYA		E COM STN		RKSSYAYX	
RKPKYFYB		E COM STN		RKSSYEYX	
RKPKYFYC		E COM STN		RKSSYHYX	
RKPKYFYD		E COM STN		RKSSYIYI	KAC CIMPO KAC
RKPKYFYX RKPKZPZX	GIMHAI	E COM STN F AIS		RKSSYIYX RKSSYOYX	GIMPO KAC GIMPO NOTAM OFFICE
RKPKZAZC		E ARTS			SIMI S NOTAW STITUL
RKPKZAZX	GIMHAI				
RKPKZTZX	GIMHAI				
RKPSZPZX		ON AIS			
RKPUZPZX RKPUYIYX	ULSAN ULSAN				
RKRRYFYX		ON ACC			
RKRRYIYT	INCHE	ON KAC			
RKRRYNYS		OTAM OFFICE			
RKRRYNYX	INTL N	OTAM OFFICE			

Change: Establishment of domestic AFTN(RKSSHGGX).

RKSSYQYX	AIR NAV CENTRAL MANAGEMENT	
RKSSYSYX	SEOUL RADIO	
RKSSZKPY	SEL COM CENTER	
RKSSZPZX	GIMPO AIS	
RKSSZTZR	GIMPO ASDE1	
RKSSZTZS	GIMPO ASDE2	
RKSSZZZX	SEOUL RADIO	
RKTFYXYX	ROKAF MET HQ	
RKTHZPZX	POHANG GYEONGJU AIS	
RKTLZTZX	ULJIN TWR	
RKTLZPZX	ULJIN AIS	
RKTNZPZX	DAEGU AIS	
RKTUYOYX	CHEONGJU AIS	
RKTUZAZA	CHEONGJU APP	
RKTUZAZB	CHEONGJU APP	
RKTUZAZC	CHEONGJU APP	
RKTUZPZX	CHEONGJU AIS	

7. 추가 정보 7. Miscellaneous

NIL NIL