AD 2 AERODROMES

RJAH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJAH - HYAKURI

RJAH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	*361054N / 1402453E*
2	Direction and distance from (city)	12NM NE TSUCHIURA
3	Elevation/ Reference temperature	107ft / -
4	Geoid undulation at AD ELEV PSN	Nil
5	MAG VAR/ Annual change	7°W(2007)
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	JSDF-A
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Hyakuri Airport Office(CAB) 1601-21, Yozawa, Omitama-City, Ibaraki Prefecture, 311-3416 JAPAN TEL:0299-54-0600, FAX:0299-54-0690

RJAH AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	Customs: (except WED)2330-0815 (WED)Nil Immigration: INTL SKED FLT hours only
3	Health and sanitation	Quarantine(human): 2330-0815 Quarantine(animal, plant): INTL SKED FLT hours only
4	AIS Briefing Office	H24 (CAB:Nil)
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24(TOKYO)
7	ATS	H24
8	Fuelling	To be issued later
9	Handling	To be issued later
10	Security	Scheduled flight only
11	De-icing	Nil
12	Remarks	HR of service at CAB OPS section 2230-1200(Daily)

RJAH AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	All the modern institutions that deal with the weight thing to Airbus A320 type.
2	Fuel/ oil types	JET A-1 JP-4 JP-4A for JSDF
3	Fuelling facilities/ capacity	To be issued later
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

RJAH AD 2.5 PASSENGER FACILITIES

1	Hotels	At Tsuchiura City
2	Restaurants	At Tsuchiura City
3	Transportation	Bus and taxi
4	Medical facilities	At Omitama City
5	Bank and Post Office	At Omitama City
6	Tourist Office	Nil
7	Remarks	Nil

RJAH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	To be issued later
2	Rescue equipment	(CAB) Emergency medical equipments conveyance truck x 1 Lighting power supply truck x 1
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

RJAH AD 2.7 SEASONAL AVAILABILITY-CLEARING

1	Types of clearing equipment	Ask Hyakuri Airport Office(CAB)*
2	Clearance priorities	Nil
3	Remarks	*For Civil Apron and TWY W

RJAH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	CIVIL APRON Surface: cement-concrete Strength: PCN 54/R/B/X/T
2	Taxiway width, surface and strength	C1, C5 Width: 28.5m C2, C4 Width: 34m C3 Width: 23m W Width: 34m Surface: Asphalt-concrete Strength: PCN 61/F/C/X/T
3	ACL and elevation	Not available
4	VOR checkpoints	Nil
5	INS checkpoints	Spot NR 1: *361042.72N/1402431.73E* 2: *361040.89N/1402430.91E* 3: *361039.06N/1402430.10E* 4: *361037.23N/1402429.28E*
6	Remarks	Nil

RJAH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands	Nil
2	RWY and TWY markings and LGT	RWY:03L/21R (Marking) RWY designation, RWY CL, RWY THR, Aiming point, TDZ, RWY side stripe, RWY turn pad CL, RWY turn pad edge (LGT) RCLL, REDL, RTHL, RENL, RWY DIST marker LGT, TKOF aiming LGT, TPIL RWY:03R/21L (Marking) RWY designation, RWY CL, RWY THR, TDZ, RWY side stripe (LGT) REDL, RTHL, RENL, RWY DIST marker LGT, TKOF aiming LGT, WBAR TWY: C1, C2, C4, C5 (Marking) TWY CL, TWY side stripe (LGT) TWY edge LGT, TWY CL LGT C3 (Marking) TWY CL (LGT) TWY edge LGT W (Marking) TWY CL, TWY side stripe, Mandatory instruction (LGT) TWY edge LGT, TWY CL LGT, Taxiing guidance sign
3	Stop bars	Nil
4	Remarks	(Marking) Overrun area (LGT) Apron flood LGT

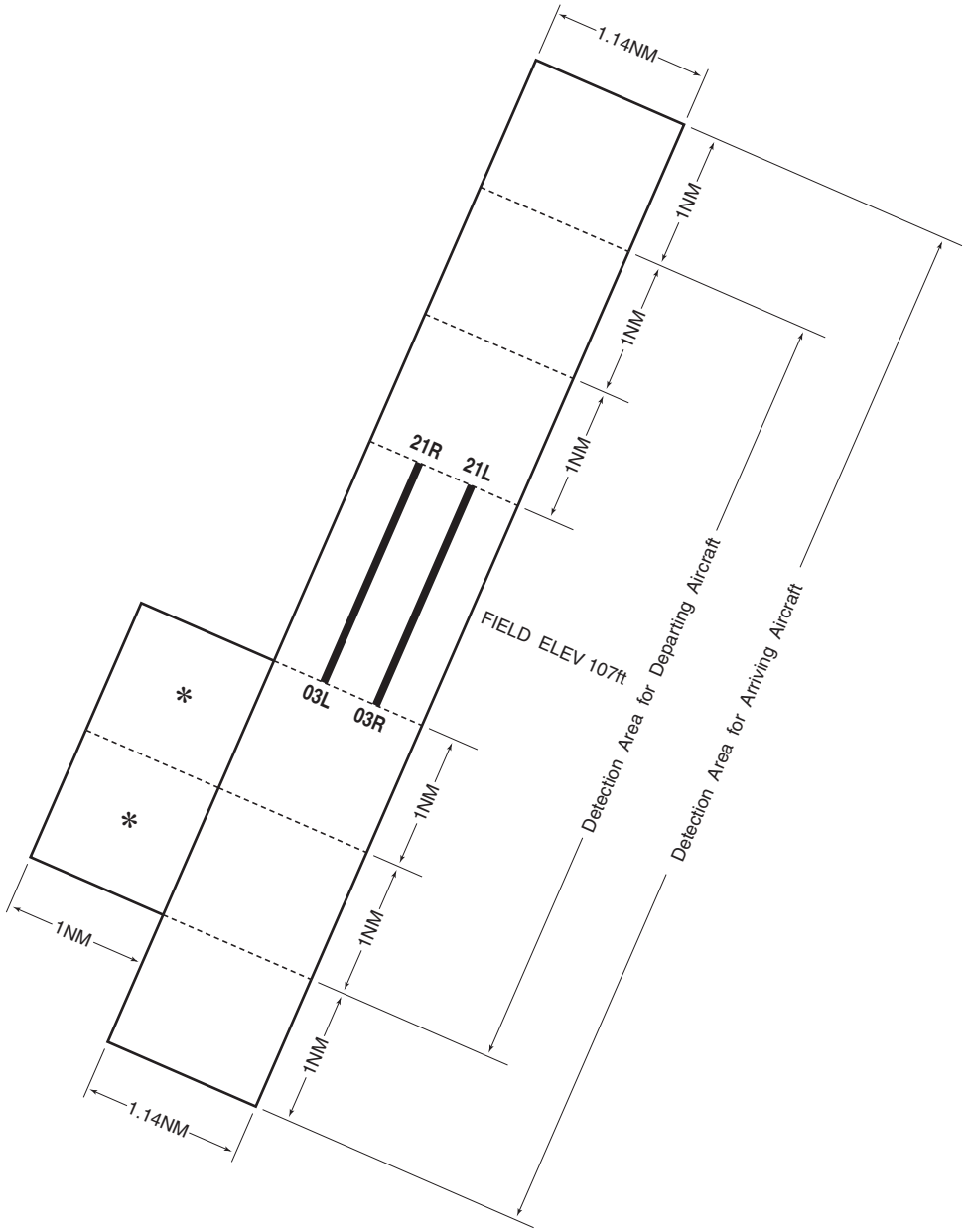
RJAH AD 2.10 AERODROME OBSTACLES

RWY/Area affected	Obstacle type	Coordinates	Elevation	Markings/ LGT	Remarks
Nil					

RJAH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	TOKYO
2	Hours of service MET Office outside hours	H24(TOKYO)
3	Office responsible for TAF preparation Periods of validity	TOKYO 30 Hours
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	Briefing is available upon inquiry at TOKYO
6	Flight documentation Language(s) used	C En
7	Charts and other information available for briefing or consultation	S_6, U_{85}, U_7, U_5, U_3, U_{25}, U_2/T_r, P_S, P_5, P_3, P_{25}, P_{SWE}, P_{SWF}, P_{SWG}, P_{SWI}, P_{SWM}, P_{SW}(domestic), E, C, W_E, W_F, W_G, W_I, W, N
8	Supplementary equipment available for providing information	Doppler Radar for Airport Weather(See below figure)
9	ATS units provided with information	TWR, APP
10	Additional information(limitation of service, etc.)	Observation is made by the Ministry of Defense.

Airspace for the advisory service concerning low level wind shear

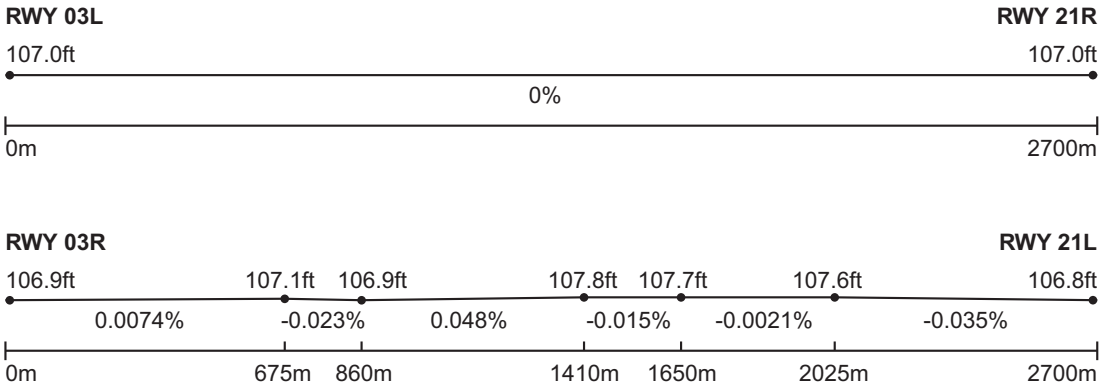


UPPER LIMIT : 1600ft above FIELD ELEV LEVEL
LOWER LIMIT : FIELD ELEV LEVEL
* ONLY FOR DEPARTING AIRCRAFT FROM RWY 21L AND RWY 21R

RJAH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCN) and surface of RWY	THR coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
03L	019°	2700×45	PCN 50/F/A/X/T SW67000kg (147700lbs) DW89000kg (196200lbs) DTW137000kg (302000lbs) Asphalt-concrete	To be issued later	THR ELEV:107ft
21R	199°	2700×45			THR ELEV:107ft
03R	019°	2700×45	PCN 45/R/A/X/T SW38000kg (83700lbs) DW61000kg (134400lbs) DTW136000kg (299800lbs) Concrete	To be issued later	THR ELEV:106.9ft TDZ ELEV:107.1ft
21L	199°	2700×45			THR ELEV:106.8ft TDZ ELEV:107.7ft

Slope of RWY	Strip Dimensions(M)	Remarks
7	10	12
See below figure	2820×150 2820×150	RWY grooving: RWY 03L/21R 2700mx30m
See below figure	3300×300 3300×300	



RJAH AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
03L	2700	2700	2700	2700	Nil
21R	2700	2700	2700	2700	Nil
03R	2700	2700	2700	2700	Nil
21L	2700	2700	2700	2700	Nil

RJAH AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	RTHL Color WBAR	PAPI (VASIS) Angle DIST FM THR MEHT	RTZL LEN	RCLL LEN Spacing Color INTST	REDL LEN Spacing Color INTST	RENL Color WBAR	STWL LEN Color
1	2	3	4	5	6	7	8	9
03L	SALS 420m LIH	Green -	PAPI 2.75°/LEFT 413.9m 61FT	Nil	2700m 30m Coded color (White/Red) LIH	2700m 60m Coded color (White/Yellow) LIH	Red	Nil
21R		Green -	PAPI 2.75°/LEFT 413.9m 61FT	Nil	2700m 30m Coded color (White/Red) LIH	2700m 60m Coded color (White/Yellow) LIH	Red	Nil
03R	PALS (CAT I) 840m LIH	Green Green	PAPI 2.75°/LEFT 420.9m 60.7FT	Nil	Nil	2700m 60m Coded color (White/Yellow) LIH	Red	Nil
21L	PALS (CAT I) 748m LIH	Green Green	PAPI 2.75°/LEFT 424.5m 60.7FT	Nil	Nil	2700m 60m Coded color (White/Yellow) LIH	Red	Nil
Remarks								
10								
RWY THR ID LGT for RWY21R THR(Color: White)								

RJAH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: *361104N1402533E*, White/Green EV4sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI : LGTD
3	TWY edge and center line lighting	TWY edge LGT : Blue TWY CL LGT (C1, C2, C4, C5 and W) : Green
4	Secondary power supply/ switch-over time	Within 15 SEC : TWY edge LGT(TWY W), TWY CL LGT (TWY W)
5	Remarks	WDI LGT, OBST LGT

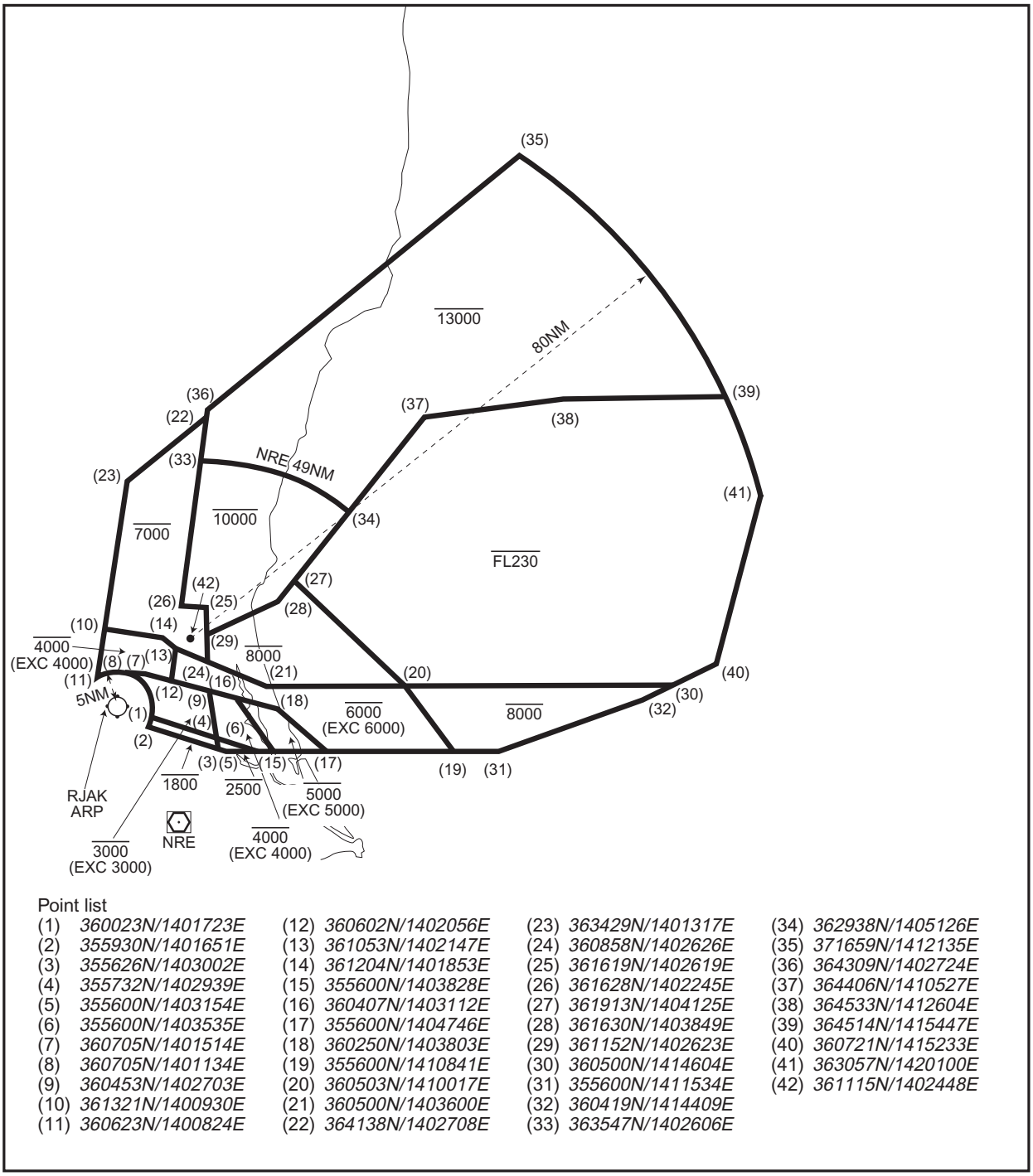
RJAH AD 2.16 HELICOPTER LANDING AREA

To be issued later

RJAH AD 2.17 ATS AIRSPACE

Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
HYAKURI CTR	(1)Area within a radius 5nm of HYAKURI ARP *(3611N14025E)*, in the west side of a line connecting *361553N/1402433E* and *360600N/1402339E*	3,000 or below	D	Hyakuri Tower En	
	(2)Area within a radius 5nm of HYAKURI ARP, in the east side of a line connecting *361553N/1402433E* and *360600N/1402339E*, and in the south side of a line connecting *360957N/1402401E* and *360739N/1402935E*	6,000 or below (exc 6,000)			
	(3)Area within a radius of 5nm HYAKURI ARP, in the east side of a line connecting *361553N/1402433E* and *360600N/1402339E*, and in the north side of a line connecting *360957N/1402401E* and *360739N/1402935E*	6,000 or below			
HYAKURI ACA	SEE RJAH ATTACHED CHART		E	Hyakuri Approach Hyakuri Departure En	
HYAKURI TCA	SEE RJAH ATTACHED CHART		E	Hyakuri TCA En	

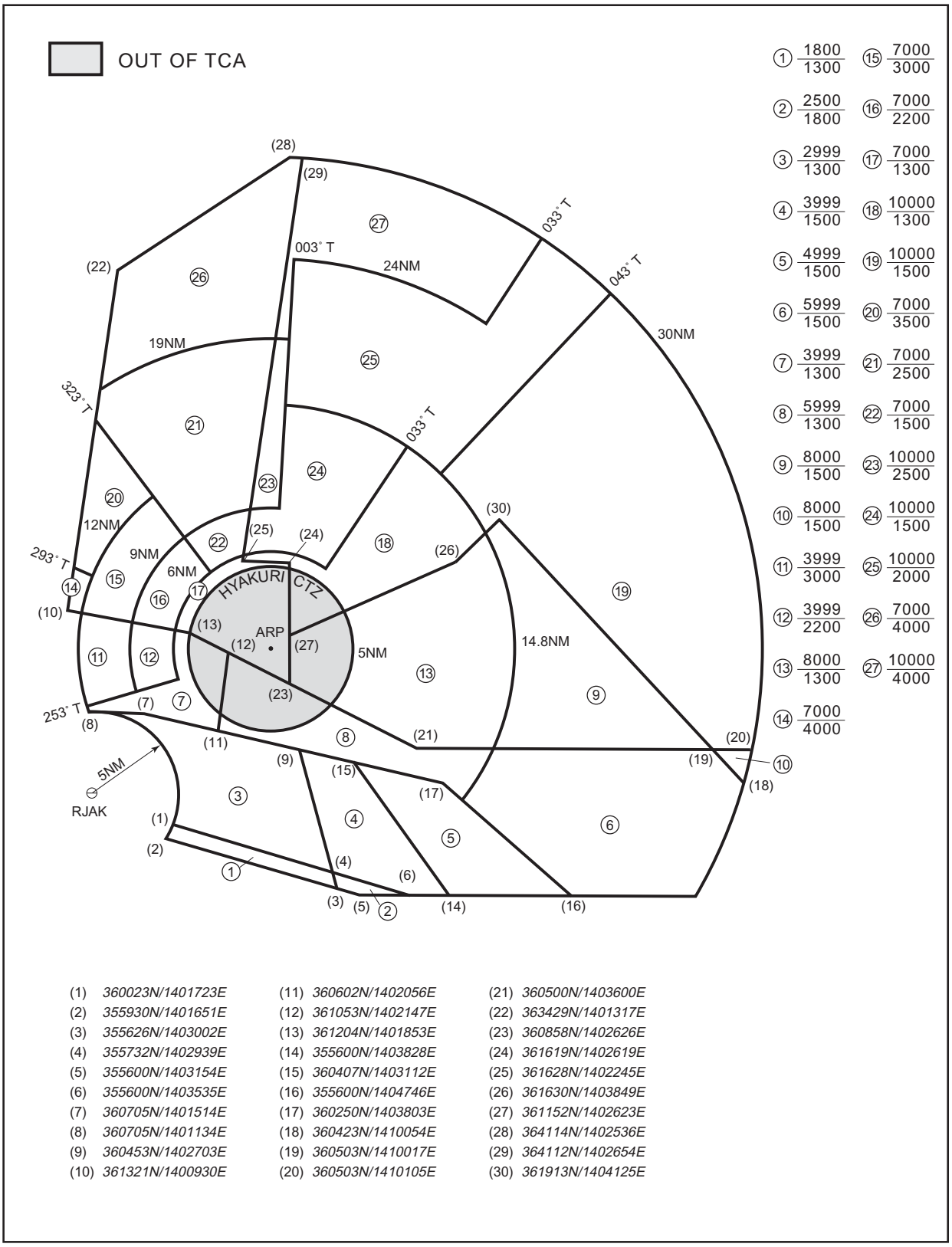
百里進入管制区
Hyakuri Approach Control Area



Point list

(1) *360023N/1401723E*	(12) *360602N/1402056E*	(23) *363429N/1401317E*	(34) *362938N/1405126E*
(2) *355930N/1401651E*	(13) *361053N/1402147E*	(24) *360858N/1402626E*	(35) *371659N/1412135E*
(3) *355626N/1403002E*	(14) *361204N/1401853E*	(25) *361619N/1402619E*	(36) *364309N/1402724E*
(4) *355732N/1402939E*	(15) *355600N/1403828E*	(26) *361628N/1402245E*	(37) *364406N/1410527E*
(5) *355600N/1403154E*	(16) *360407N/1403112E*	(27) *361913N/1404125E*	(38) *364533N/1412604E*
(6) *355600N/1403535E*	(17) *355600N/1404746E*	(28) *361630N/1403849E*	(39) *364514N/1415447E*
(7) *360705N/1401514E*	(18) *360250N/1403803E*	(29) *361152N/1402623E*	(40) *360721N/1415233E*
(8) *360705N/1401134E*	(19) *355600N/1410841E*	(30) *360500N/1414604E*	(41) *363057N/1420100E*
(9) *360453N/1402703E*	(20) *360503N/1410017E*	(31) *355600N/1411534E*	(42) *361115N/1402448E*
(10) *361321N/1400930E*	(21) *360500N/1403600E*	(32) *360419N/1414409E*	
(11) *360623N/1400824E*	(22) *364138N/1402708E*	(33) *363547N/1402606E*	

百里ターミナルコントロールエリア
Hyakuri Terminal Control Area



(1) *360023N/1401723E*
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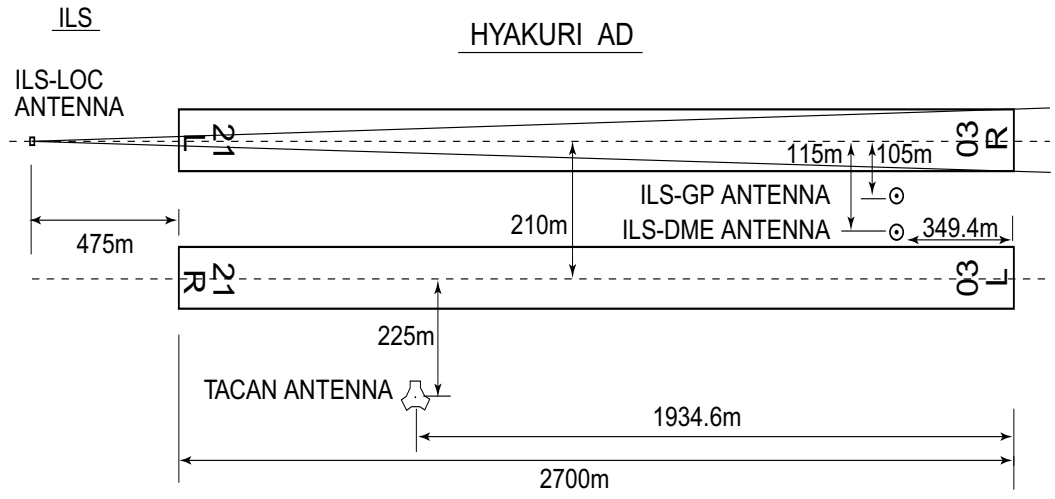
(3) *355626N/1403002E*
(4) *355732N/1402939E*
(5) *355600N/1403154E*
(6) *355600N/1403535E*
(7) *360705N/1401514E*
(8) *360705N/1401134E*
(9) *360453N/1402703E*
(10) *361321N/1400930E*
(11) *360602N/1402056E*
(12) *361053N/1402147E*
(13) *361204N/1401853E*
(14) *355600N/1403828E*
(15) *360407N/1403112E*
(16) *355600N/1404746E*
(17) *360250N/1403803E*
(18) *360423N/1410054E*
(19) *360503N/1410017E*
(20) *360503N/1410105E*
(21) *360500N/1403600E*
(22) *363429N/1401317E*
(23) *360858N/1402626E*
(24) *361619N/1402619E*
(25) *361628N/1402245E*
(26) *361630N/1403849E*
(27) *361152N/1402623E*
(28) *364114N/1402536E*
(29) *364112N/1402654E*
(30) *361913N/1404125E*

RJAH AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP/ASR	Hyakuri Approach/ Hyakuri Radar	362.3MHz 305.7MHz(1) 261.2MHz 120.1MHz 123.875MHz 243.0MHz(E) 121.5MHz(E)	H24	(1) Primary (2) For rescue only *AVBL on request
DEP	Hyakuri Departure	362.3MHz 120.1MHz	H24	
TWR	Hyakuri Tower	323.8MHz(1) 236.8MHz 118.025MHz(1) 126.2MHz 138.05MHz(2) 247.0MHz(2)* 123.1MHz(2)* 243.0MHz(E) 121.5MHz(E)	H24	
GCA-ASR -PAR	Hyakuri Radar	270.8MHz 335.6MHz 289.9MHz 300.4MHz 306.2MHz 310.8MHz 321.2MHz 125.3MHz 127.975MHz 134.1MHz	H24	ASR RWY 03L/21R, 03R/21L PAR RWY 03R/21L Glide path RWY03R 2.75° Glide path RWY21L 2.75° Maintenance period: 2300 - 0300 SAT in VMC.
GND	Hyakuri Ground	275.8MHz(1) 247.8MHz 119.5MHz(1) 126.2MHz	H24	
TCA	Hyakuri TCA	124.8MHz	2300 - 1100 (EXC SAT and SUN)	

RJAH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid (VOR declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR (7°W/2009)	HUC	113.3MHz	H24	*361113.22N/ 1402449.42E*		VOR Unusable: R030-040 beyond 35NM BLW 2000ft. R070-080 beyond 35NM BLW 2000ft. R080-130 beyond 37NM BLW 2000ft. R130-140 beyond 32NM BLW 2000ft. R140-150 beyond 38NM BLW 2000ft. R270-280 beyond 38NM BLW 5000ft. R280-310 beyond 28NM BLW 5000ft. R310-320 beyond 30NM BLW 4000ft. R320-330 beyond 35NM BLW 4000ft.
TACAN	HUC	1167MHz (CH-80X)	H24	*361114.81N/ 1402447.53E*	162FT	TACAN Unusable: R100-110 beyond 37NM BLW 2000ft. R120-130 beyond 25NM BLW 2000ft. R130-140 beyond 38NM BLW 2000ft. R270-280 beyond 30NM BLW 5000ft. R280-290 beyond 25NM BLW 5000ft. R290-300 beyond 34NM BLW 5000ft. R300-310 beyond 27NM BLW 5000ft. R310-320 beyond 30NM BLW 5000ft.
ILS-LOC 03R	IHY	109.3MHz	H24	*361147N/ 1402520E*		LOC : 475m away FM RWY 21L THR, BRG (MAG) 027°
ILS-GP 03R	-	332.0MHz	H24	*361022.8N/ 1402439.3E*		GP : 349.4m inside FM RWY 03R THR, 105m W of RCL. Angle 2.75° HGT of ILS reference datum 16.5m(54FT)
ILS-DME 03R	IHY	991.0MHz (CH-30X)	H24	*361022.9N/ 1402438.0E*	128FT	DME : 349.4m inside of RWY03R THR, 115m W of RCL.



REMARKS : 1 LOC Beam BRG(MAG) 027°
2 HGT of ILS REF datum 16.5m(54ft)
3 GP angle 2.75°

RJAH AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

Civil transient aircraft:
PPR to CAB Hyakuri Airport Office(0299-54-0600) for parking

2. Taxiing to and from stands

Nil

3. Parking area for small aircraft(General aviation)

Nil

4. Parking area for helicopters

Nil

5. Apron - taxiing during winter conditions

Nil

6. Taxiing - limitations

Nil

7. School and training flights - technical test flights - use of runways

Nil

8. Helicopter traffic - limitation

Nil

9. Removal of disabled aircraft from runways

Nil

RJAH AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJAH AD 2.22 FLIGHT PROCEDURES

1. WX MINIMA CONCERNING PAR/ASR APCH PROCEDURE

PAR RWY03R

MINIMA	THR elev. 107		AD elev. 107	
CAT			CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	VIS
A	307(200)	750	580(473)	1600
B				
C			660(553)	2400
D				3200

PAR RWY21L

MINIMA	THR elev. 107		AD elev. 107	
CAT			CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	VIS
A	307(200)	750	580(473)	1600
B				
C			660(553)	2400
D				3200

ASR RWY03R

MINIMA	THR elev. 107		AD elev. 107	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	520(413)	900	580 (473)	1600
B		1000		
C			660(553)	2400
D		1400		3200

ASR RWY21L

MINIMA	THR elev. 107		AD elev. 107	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	500(393)	900	580(473)	1600
B		1000		
C			660(553)	2400
D		1400		3200

ASR RWY03L

MINIMA	THR elev. 107		AD elev. 107	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	520(413)	1200	580(473)	1600
B		1300		
C		1400	660(553)	2400
D		1600		3200

ASR RWY21R

MINIMA	THR elev. 107		AD elev. 107	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	500(393)	1500	580(473)	1600
B				
C		1800	660(553)	2400
D		2000		3200

2. TKOF WX MINIMA

	RWY	REDL AVBL		REDL OUT	
		CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS
TKOF ALTN AP FILED	03R	200 - 800m	200 - 800m	-	200 - 800m
	03L				
	21R				
	21L				
OTHER	03R	AVBL LDG MINIMA			
	03L				
	21R				
	21L				

NOTE: SIDs are designed in accordance with provisional standards for FLIGHT PROCEDURE DESIGN.

TKOF WX MINIMA for OGITU DEPARTURE only

	RWY	ACFT CAT	REDL & RCLL*		REDL or RCLL* or RCL Marking		NIL (DAYTIME ONLY)	
			RVR	VIS	RVR	VIS	RVR	VIS
Multi-Engine ACFT with TKOF ALTN AP FILED	03R	A,B,C,D	-	-	400	400	-	500
	03L		400	400	-	400	-	500
	21R		400	400	-	400	-	500
	21L		-	-	400	400	-	500
OTHER	03R	A,B,C,D	AVBL LDG MINIMA					
	03L							
	21R							
	21L							

Note : RWY03R/21L RCLL not installed.

3. Automated Radar Terminal System (ARTS)

百里進入管制区を航行する航空機は，管制機関の指示があった場合原則として自動高度通報機能を有する 4096 コードによる応答装置を作動させること。
上記指示を受けた当該応答装置を有しない航空機は，管制機関に対しその旨を通報すること。

When instructed by ATC, aircraft flying in and out of Hyakuri Approach control area in principle will reply on 4096 Code(Mode A/3) with automatic altitude reporting capability (Mode C); Aircraft not equipped with the said transponder shall report ATC to that effect.

4. Lost communication procedures for arrival aircraft under radar navigational guidance

If radio communications with HYAKURI Radar are lost for 1 minute in the pattern or 5 seconds (PAR)/15 seconds (ASR) on final approach, squawk Mode A/3 Code 7600 and;

(I) 1. Contact HYAKURI Radar/Tower.
2. If unable, proceed in accordance with visual flight rules.
3. If unable, proceed to TACAN IAF or NAKAH IAF at last assigned altitude or 4,000 feet whichever is higher, and execute instrument approach.

(II) Procedures other than above will be issued when situation required.

RJAH AD 2.23 ADDITIONAL INFORMATION

Nil

RJAH AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart -1
Aerodrome/Heliport Chart -2
Standard Departure Chart - Instrument (OGITU)
Standard Departure Chart - Instrument (NAKAH)*
Standard Departure Chart - Instrument (HOKTA, HOKTA EAST)*
Standard Departure Chart - Instrument (DAPPE)*
Standard Arrival Chart - Instrument (DAIGO)*
Instrument Approach Chart (ILS Z or LOC Z RWY03R)*
Instrument Approach Chart (ILS Y or LOC Y RWY03R)*
Instrument Approach Chart (ILS X or LOC X RWY03R)
Instrument Approach Chart (ILS W or LOC W RWY03R)*
Instrument Approach Chart (VOR RWY03R)
Instrument Approach Chart (VOR RWY03L)
Instrument Approach Chart (VOR RWY21L)
Instrument Approach Chart (VOR RWY21R)
Instrument Approach Chart (VOR B)
Instrument Approach Chart (TACAN Z RWY03R)*
Instrument Approach Chart (TACAN Y RWY03R)*
Instrument Approach Chart (TACAN Z RWY03L)*
Instrument Approach Chart (TACAN Y RWY03L)*
Instrument Approach Chart (TACAN Z RWY21L)*
Instrument Approach Chart (TACAN Y RWY21L)*
Instrument Approach Chart (TACAN Z RWY21R)*
Instrument Approach Chart (TACAN Y RWY21R)*
Instrument Approach Chart (TACAN A)*
Other Chart (MVA CHART)

*: Designed in accordance with provisional standards for FLIGHT PROCEDURE DESIGN.