

VER. 22.12.21

by Flyingdeuk

GMP - CJU	CJU - GMP
CJU - KWJ	KWJ - CJU
CJU - CJJ	CJJ - CJU
GMP - PUS	PUS - GMP
CJU - TAE	TAE - CJU
CJU - PUS	PUS - CJU
ICN - PUS	PUS - ICN
ICN - KIX	KIX - ICN

Conversi	on Table		
Cold Temp Correction			
Meter/Feet Conversion			
Cold Wx Operation			
ENG ON Deicing	ENG OFF		

RKSS(GMP) 59ft RKPC(CJU) 119ft KE GMP 131.15 KF CILI 129 4 Rwv 32R Takeoff (06:00L~0900L / 12:00L~15:00L /18:00L~21:00L) GMP: SID (NADP 1) **BULTI 1T** 324 324 6000 324 32L/R (BULTI 1Q) 324 324 5000 324 **BULTI 1U** 144 144 6000 144 14L/R (BULTI 1Z) 144 144 6000 144

32L 32R **KIP** 

108.3

241

32L(41')

32R(42')

DOTOL 2P

DOTOL 2T

07(87')

07: P6(5176'), P5(5882'), P4(6840'-ATC HIRO) 25: P7(5219'), P8(5882'), P10(7524'-ATC HIRO) Entering Rapid TWY CTC GND 121.675 (STOP x) HST 40KTS

32L/R: KIP324/5, R220 YIU R271

113.6

HUD

**ILS Z 07** 

ILS Z 25

YDM 109.0

HUD

110.7

242

APRON(130.875) -> GND(121.9) -> TWR by ATC(TCP)

CJU: STAR

YUMIN

DUKAL

07 109.9

10433'

10499'

11811'

14R(34')

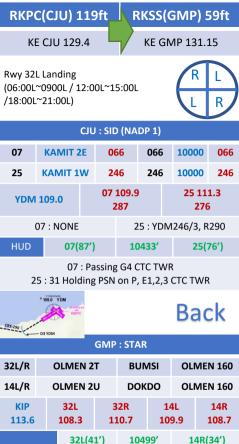
14L(38')

Back

25 111.3

25(76')

**DOTOL 160** DOTOL/-10 160



### 32L(41') 10499' HUD

32R(42') 11811'

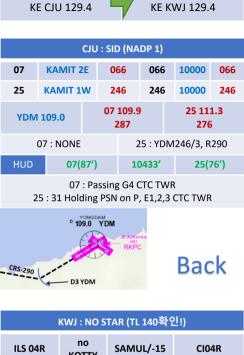
KIP /8(32L/R), YJU R271, T73 /2

14L(38')

32L: D3(6532'), E2(9117'), 32R: E1(6614')

14L: C1(6578') 32L/R: 8 KIP L/G, 14R: LOC CAPT L/G

FAF: Final Flap TWR -> GND -> APRON by ATC(TCP) Except RWY14R Landing (Until R)



RKJJ(KWJ) 48ft

RKPC(CJU) 119ft

KOTTY

LOC 22L SAMUL D0580

04R 111.1

04R: SAMUL(CLR Limit)

LOC 22L: 3.3도, VOR 22L/R: 3.29도(22R offset, PAR!!)

D058Q

9301'

9301'

(PAR 6NM. 3)

22L 108.5

22L(48')

22R(48')

SAMUL

04R(46')

04L(46')

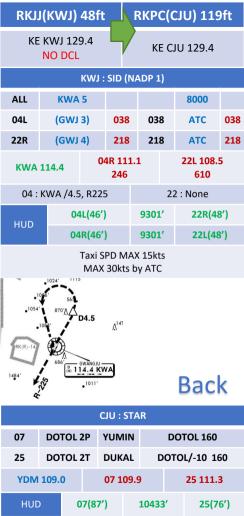
TAXI MAX 15 kts (Max 30kts by ATC)

VOR 22LR

HUD

**KWA 114.4** 

End of RWY Vacating 9301'



07: P6(5176'), P5(5882'), P4(6840'-ATC HIRO)

25: P7(5219'), P8(5882'), P10(7524'-ATC HIRO)

Entering Rapid TWY CTC GND 121.675 (STOP x) HST 40KTS



(JIKJI tx)

**OSPOT** 

(HYEIN tx)

9003'

9003'

(STAR 안줌)

**HYFIN** 

(STAR 안줌)

24R(182')

24L(191')

24R 111.7

RKTU(CJJ) 192ft

RKPC(CJU) 119ft

NO STAR (MATIZ 1) NO STAR

(MATIZ 1)

06L(166')

06R(173')

Req full length Landing (Vacate End of RWY)

Entering TWY A3, B3, B4, C3, D3 change GND freq

06L: B3 (6443'), A3 (8786') 24R: C3 (6230'), D3 (8825')

180 BACK LINE 주의

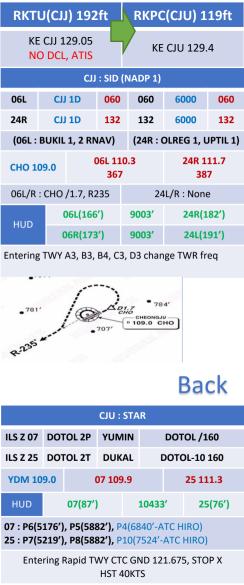
06L 110.3

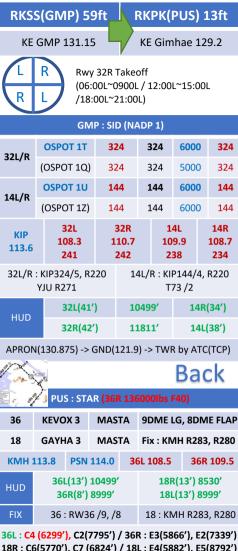
ILS Z 06L

ILS Z 24R

CHO 119.0

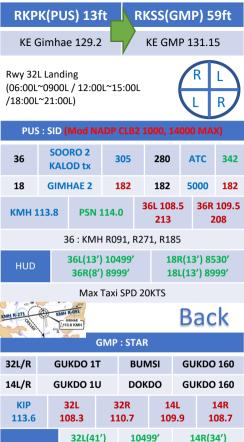
HUD





18R: C6(5770'), C7 (6824') / 18L: E4(5882'), E5(8792')

Vacate C3.C4 by ATC only. Max Taxi SPD 20KTS C2 HOLD SHORT 가까움(Vacate TaxiSPD)



HUD

14L: C1(6578')

FAF: Final Flap

32R(42')

32L: D3(6532'), E2(9117'), 32R: E1(6614')

32L/R: 8 KIP L/G, 14R: LOC CAPT L/G

TWR -> GND -> APRON by ATC(TCP) Except RWY14R Landing (Until R)

11811'

KIP /8(32L/R), YJU R271, T73 /2

14L(38')

RKPC(CJU) 119ft RKTN(TAE) 120ft

KE CJU 129.4

KE TAE 129.2

CJU	: SID	(NA	DP 1)	

 07
 MAKET 2E
 066
 066
 9000
 066

 25
 MAKET 2W
 246
 246
 ATC
 246

YDM 109.0 07 109.9 25 111.3 276

07 : NONE 25 : YDM246/3, R290 HUD 07(87') 10433' 25(77')

07 : Passing G4 CTC TWR 25 : 31 Holding PSN on P, E1,2,3 CTC TWR





13L(112')

TAE : NO STAR						
31 TGU/-10		CF31L222/7		CF31L		
13	TGU/-10		YAWAN			
DOC 116.5 TGU 112.2		31L 108.7		13R 108.7		
IIIID		31L(118')	9039' 13R		3R(111') 3.3	
HUE	_					

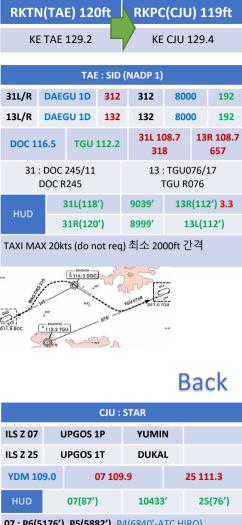
8999

FIX

31L: D1(8848'), 13R: A1(8772')

13R ILS 3.3도 PAPI 3.3도 (산악지형 주의) TAXI MAX 20kts (do not req) 최소 2000ft 간격

31R(120')



07: P6(5176'), P5(5882'), P4(6840'-ATC HIRO)

25: P7(5219'), P8(5882'), P10(7524'-ATC HIRO)

Entering Rapid TWY CTC GND 121.675, STOP X

HST 40KTS

KF CILI 129 4 KF Gimhae 129 2 CJU: SID (NADP 1) ٥7 **AKPON 1F** 066 066 9000 066 246 25 **AKPON 1W** 246 ATC 246 07 109.9 25 111.3 YDM 109.0 287 276 07: NONE 25: YDM246/3, R290 HUD 07(87') 10433' 25(76') 07: Passing G4 CTC TWR 25: 31 Holding PSN on P. E1.2.3 CTC TWR D 109.0 YDM RKPC

RKPK(PUS) 13ft

RKPC(CJU) 119ft



PUS: STAR (36R 136000lbs F40) 36 ANROD

**KEVOX 3** 9DME LG, 8DME FLAP 18 **GAYHA 3** ANROD Fix: KMH R283, R280

**KMH 113.8 PSN 114.0** 36L 108.5 36R 109.5 36L(12') 10499' 18R(13') 8530'

HUD 18L(10') 8999' 36R(8') 8999'

36: RW36/9./8 18: KMH R283, R280

36L: C4 (6299'), C2(7795') / 36R: E3(5866'), E2(7339')

18R: C6(5770'), C7 (6824') / 18L: E4(5882'), E5(8792') Vacate C3,C4 by ATC only. Max Taxi SPD 20KTS

C2 HOLD SHORT 가까움(Vacate TaxiSPD)

KF Gimhae 129 2 KF CILI 129 4 PUS: SID (Mod NADP CLB2 1000, 14000 MAX) SOORO 2 36 305 280 **ATC** 278 **TOPAX** tx BUILIM 3 18 182 182 5000 182 TOPAX tx 36L 108.5 36R 109.5 PSN 114.0 **KMH 113.8** 213 208 36: KMH R091, R271, R185 36L(13') 10499' 18R(13') 8530'

RKPC(CJU) 119ft

HUD 36R(8') 8999' Max Taxi SPD 20KTS KMH R-091 D113.8 KMH

RKPK(PUS) 13ft

25(76')

18L(13') 8999'

# Back

CJU : STAR					
LS Z 07	UPGOS 1P	YUMIN			

UPGOS 1T DUKAL

ILS Z 25

HST 40KTS

07 109.9 25 111.3

YDM 109.0

HUD 07(87') 10433'

07: P6(5176'), P5(5882'), P4(6840'-ATC)

25: P7(5219'), P8(5882'), P10(7524'-ATC)

Entering Rapid TWY CTC GND 121.675, STOP X

RKSI(ICN) 23ft RKPK(PUS) 13ft **KF ICN 131 5** KF Gimhae 129 2 ICN: SID (33/34 NADP 1, 15/16 NADP 2) OSPOT 5500/ 33L/R 333 333 333 1E/A ATC 333 34L/R OSPOT 1Y 333 ATC 333 15L/R **OSPOT 1C** 153 153 5000 153 16L/R OSPOT 1H 153 153 5000 153 **NCN** 33L 33R 15L 15R 113.8 109.3 108.9 111.9 109.1 WNG 34L 34R 16L 16R 112.9 109.95 108.1 110.35 108.55 33L/R: NC05L/R, R242 34L/R: WNG333/4.6, R242 YJU R271 YJU R271 33L/R 34L(23') 15L/R 16R(23') 12303 HUD 34R (23') 13123' 16L (23') Parallel TWY 10KTS 이상(R17 MAX 15kts) Back PUS: STAR(36R 136000lbs F40) 9DME LG. 8DME FLAP 36 **KEVOX 2** MASTA **GAYHA 3** Fix: KMH R283, R280 18 MASTA **KMH 113.8 PSN 114.0** 36L 108.5 36R 109.5 36L(13') 10499' 18R(13') 8530' HUD 36R(8') 8999' 18L(13') 8999' 36: RW36/9,/8 18: KMH R283, R280 36L: C4 (6299'), C2(7795') / 36R: E3(5866'), E2(7339') 18R: C6(5770'), C7 (6824') / 18L: E4(5882'), E5(8792') Vacate C3,C4 by ATC only, Max Taxi SPD 20KTS

C2 HOLD SHORT 가까움(Vacate TaxiSPD)

RKPK(PUS) 13ft RKSI(ICN) 23ft KF Gimhae 129 2 **KF ICN 131 5** PUS: SID (Mod NADP CLB2 1000, 14000 MAX) SOORO 2 ATC 36 305 280 342 KALOD tx 18 GIMHAF 2 182 182 5000 182 36L 108.5 36R 109.5 **KMH 113.8** PSN 114.0 213 208 36: KMH R091, R271, R185 36L(12') 10499' 18R(13') 8530' HUD 36R(8') 8999' 18L(10') 8999' Max Taxi SPD 20KTS Back **ICN: STAR** 33/34 **GUKDO 2E FNPIL GUKDO 180** 

33L

109.3

34L

109.95

34R(23')

33L/R 34L(23')

RWY /8, /6, YJU R271 33R: C4(7529'), C5(8513'), 33L: B5('), B6(') 15L: C2(7522'), C1(8536'), 15R: B3('), B2(')

15/16

NCN

113.8

WNG

112.9

HUD

34R

108.1

34L: P7(5600'), P8(6578'), 34R: N4(6876'), N5(8507') 16R: P6(5597'), P5(6574'), 16L: N3(7043'), N2(8444') 8NM 180kts, 6NM 160kts, Parr TAXI 10kts이상, HIRO

MUNAN

**GUKDO 2H** 

**GUKDO 180** 

12303'

13123'

33R 15L

15R 108.9

16L

110.35

111.9

109.1

16R

108.55 15L/R

16R(23')

16L(23')



06L: B8(5160'), B6(6751'), 24R: B7(5318'), B9(6751')

06R: A7(5137'), A6(6938'), 24L: A8(5269'), A9(6976')

After 2500ft L/G DN. After 1500ft L/D FLAP

RJBB(KIX) 17ft RKSI(ICN) 23ft KF KIX 130 95 **KF ICN 131 5** KIX: SID - SOUJA tx (NADP 1) **ATC** 06L/R 058 058 058 (9000)**HFLFN 2** - SOUIA tx ATC 24L/R 238 238 238 (9000)KIE 06L 06R 24L 24R 110.7 111.6 108.7 108.1 108.5 06L(15') 13123' 24R(23') HUD 06R (5') 13123' 24L (12') APU Start, TAXI RTE 1, 2 Back ICN: STAR GUKDO 2F **FNPIL GUKDO 180** 33/34 15/16 **GUKDO 2H** MUNAN **GUKDO 180** NCN 33L 33R 15L 15R 113.8 109.3 108.9 111.9 109.1 WNG 34L 34R 16L 16R 110.35 112.9 109.95 108.1 108.55 15L/R 33L/R 34L(23') 12303' 16R(23') HUD 34R(23') 13123' 16L(23') RWY /8, /6, YJU R271 33R : C4(7529'), C5(8513'), 33L : B5('), B6(')

15L: C2(7522'), C1(8536'), 15R: B3('), B2(')

34L: P7(5600'), P8(6578'), 34R: N4(6876'), N5(8507') 16R: P6(5597'), P5(6574'), 16L: N3(7043'), N2(8444') 8NM 180kts, 6NM 160kts, Parr TAXI 10kts이상, HIRO

GS KTS	КМ	MILES			
300	560	350			
310	570	360			
320	590	370			
330	610	380			
340	630	390			
350	650	400			
360	670	410			
370	690	430			
380	710	440			
390	720	450			
400	740	460			
410	760	470			
420	780	480			
430	800	500			
440	820	510			
450	830	520			
460	850	530			
470	870	540			
480	890	550			
490	910	560			
500	930	580			
510	950	590			
520	960	600			
530	980	610			
540	1000	620			
550 560	1020 1040	630 650			
570	1040	660			
570 580	1070	670			
590	1070	680			
600	1110	690			
610	1130	700			
620	1150	710			
630	1170	730			
640	1190	740			
650	1200	750			
660	1220	760			
670	1240	770			
680	1260	780			
690	1280	800			
700	1300	810			
Dools					

#### COLD TEMP CORRECTION 1/2 Min 은 반드시 수정 (중간 고도 CORRECTION은 PIC 결정) Missed App 고도는 ATC 협조 필요 GMP 32L (261') / 32R (262') / 14R (254') 32L/R മറററ O -5 -10 R14 n -5 -10 CJU 07 (307') / 25 (296') n -5

-10

06L

-5

-10

24R

n

-5

-10

ICN. KWJ. PUS next page

CJJ 06L (387') / 24R (296')

Back

COLD TEMP CORRECTION 2/2							
ICN ALL RWY (243')							
33/34	7000	6000	5000	3600	2600	1600	
0	7400	6340	5290	3810	2760	1700	
-5	7520	6460	5390	3880	2810	1730	
-10	7680	6580	5490	3950	2860	1760	
15/16	3000	2600	1600		4000		3000
0	3170	2760	1700		4230		3170
-5	3230	2810	1730		4310		3230
-10	3290	2860	1760		4390		3290
	KWJ	04R(26	6'),04L	.(610')	/ <b>22L</b> (6	10')	
04L/R	4000	3000	2000				7000
0	4230	3170	2120				7500
-5	4310	3230	2160	E	Bac	K	7590
-10	4390	3290	2200				7680
22L	5000	4100	3500	2900	2200		4000
0	4230	3170	2120	3070	2340		4230
-5	4310	3230	2160	3130	2430		4310
-10	4390	3290	2200	3190	2420		4390
PU	JS 36L(2	233'),3	6R(228	') / 18L	/R (see	below	r)
36L/R	6000	5000	3300	2100		6000	
0	6340	5290	3490	2210		6340	
-5	6460	5390	3560	2250		6460	
-10	6580	5490	3620	2290		6580	
18L/R	6000	5000	4000	2600	1700		6000
0	6340	5290	4230	2760	1800		6340
-5	6460	5390	4310	2810	1830		6460
-10	6580	5490	4390	2860	1870		6580

## Meter/Feet Conversion Table

#### ☐ China, Mongolia & North Korea

#### ■ FL Conversion

West	bound		oound
(180° ~	359°)	(360° -	179°)
		13700 M	44900 F
13100 M	43000 FT	12500 M	41100 F
12200 M	40100 FT	11900 M	39100 F
11600 M	38100 FT	11300 M	37100 F
11000 M	36100 FT	10700 M	35100 F
10400 M	34100 FT	10100 M	
0000 14	20400 FT	10100 W	33100 F
9800 M	32100 FT	9500 M	31100 F
9200 M	30100 FT	8900 M	29100 F
8400 M	27600 FT	8100 M	26600 F
7800 M	25600 FT	7500 M	24600 F
7200 M	23600 FT	6900 M	22600 F
6600 M	21700 FT		
		6300 M	20700 F
6000 M	19700 FT	5700 M	18700 F
5400 M	17700 FT	5100 M	16700 F
4800 M	15700 FT	4500 M	14800 F
4200 M	13800 FT	3900 M	12800 F
3600 M	11800 FT	3900 W	12000 F
		3300 M	10800 F
3000 M	9800 FT	2700 M	8900 F
2400 M	7900 FT	2100 M	6900 F
71 04 (200,000) 00 00			

■ ALT / HEIGHT Conversion							
	Meter	Feet	Meter	Feet			
	1000 M	3300 FT	500M	1600FT			
	900 M	3000 FT	450M	1500FT			
	800 M	2600 FT	400 M	1300 FT			
	700 M	2300 FT	350 M	1100 FT			

1500 M

300 M

4900 FT

1000 FT

5900 FT

3900 FT

2000 FT

1800 M

1200 M

600 M

### COLD Wx 1/2 OAT (GND) / TAT (TAT) is 10°C (50°F) or below: visible moisture (clouds, fog with VIS 1SM

(1600 m) or rain, snow, sleet, ice crystals...) ice, snow, slush and standing water is present

on the ramps, taxiways, or runways.

- PROBE HEAT switches ...... ON

### ENGINE START

PREFLIGHT

(-35도 TH변경전 2분간 IDLE) (Min Oil Press 까지 IDLE 유치 (수분간)) (Oil Temp - Nor 후 Oil Press High시 ShutDown)

#### **FNGINE ANTI-ICE**

- ENGINE START switches . . . . . . . . . . . CONT (COWL V/V OPEN 지속 Bright시 APU Bleed OFF. ISO V/V AUTO. TH 서서히 Max 30%)

### WING ANTI-ICE

- WING ANTI-ICE switch . . (Type II or IV Deicing안할 거면 사용하라)

### AFTER START

- GENERATOR 1 and 2 switches....ON (IDG 1분이내 안정, 5분이내 Steady Power) - FLIGHT controls . . . . . . . . . . Check

(Deicing 할거면 Deicing 하고 한다.) - FLAPS . . . . . Check (Full Travel UP - 40 - UP. FLAP UP 고려)

TAXI OUT

### (OAT 3도 이하 RUN UP : Behind CLR, 70%

60분간격) (Ice Shedding: freezing rain, freezing drizzle, freezing fog or heavy snow - 70%, 1초, 10분간격) -8: 없음

허락하는한, 30초, 30분 간격) -8: (50%-IDLE,

#### COLD Wx 2/2 BEFORE T/O Takeoff Signal - FLAPS 5 - FLAPS TAKEOFF (-8: Oil Temp 31도 이상) - THRUST ... (min 70%(50%), 30초(5초))RUNUP (ENG ANTI-ICE + OAT 3도이하) NO RUNUP(OAT 3도이상) NG 70%, -8:50% 5초 **FNGINE ANTI-ICE** - ENGINE START switches . . . . . . . CONT (-40도 이하 금지, 강하중 가능) (COWL V/V OPEN 지속 Bright시 APU Bleed OFF. ISO V/V AUTO, TH 서서히 Max 30%) FAN ICE REMOVAL (Moderate Severe 가능하면 회피하라 아니면..) - ENGINE START switches (both) ......FLT - Autothrottle (if engaged) . . . . . . . . Disengage - THRUST . . . . . . . (min 80%, 1 초) Increase (15초이내 Vib 4.0이하 안정화 15분 간격 반복) - Autothrottle (if needed) . . . . . . . . . . Engage (4.0 보다 크면 Engine High Vibration Check List!!!) WING ANTI-ICE (Icing 보이면 Deicer로 사용, Anti-icer도 사용가능) (FL350이상 사용금지 -> Emer Descend) (Icing 지역 Holding - Flap 사용금지) APPROACH L/D (FLAP 15 필수 조건일 경우만 VREF ICE 사용) AFTER L/D, SHUTDOWN (TAXI RUNUP, ICE SHEDDING 절차적용) - FLAPS . . . . . . . . . . . . . . . . . 15 까지만 - ENG ANTI-ICE . . . . . . ENG ShutDown전 OFF - Stabilizer trim . . . . . . . . . Set 5 units - ENGINE . . . . . . . . . . . . ShutDown

**ENG ON Deicing in ICN** ICN Deicing "Deicing Required ENG On Deicing" ICN Apron "Req Pushback Deicing Zone xxx" Tx 2000 -> Pad Control -> Ice Man PARKING BRAKE ----- SET Report Parking Brake SET - > Ice Man B737-8 BROADBAND SYS s/w ----- OFF FLAPS ----THRUST LEVERS -----IDLE **ENGINE BLEED AIR SWITCHES ---- OFF** APU BLEED air switch ----- OFF START DE/ANTI-ICING REQ DCL 항공기이동 및 Configuration 변경 금지 AFTER DE/ANTI-ICING IS COMPLETED (TIME CHECK 1분) 용액과 마지막 용액 뿌린 시간 받고 적는다. Holdover Time 결정!!!

APU BLEED air switch ----- As needed Engine BLEED air switches ----- ON FLAP LEVER ----- Set for takeoff or UP ice, snow, slush or standing water, 강수 지속시 -

TIME CHECK 1분후

FI AP UP고려

Flight controls ----- Check, as needed After Start Cheklist TAXI OUT

(OAT 3도 이하 RUN UP : Behind CLR. 70% 허락하는한, 30초, 30분 간격) -8: (50%-IDLE, 60분간격)

**BEFORE TAKEOFF** TAKEOFF SIGNAL -> FLAPS 5

FLAPS ----- Set(for takeoff)

TAKEOFF (-8: Oil Temp 31도 이상) - THRUST ... (min 70%(50%), 30초(5초))RUNUP

(ENG ANTI-ICE + OAT 3도이하) NO RUNUP(OAT 3도이상) NG 70%, -8:50% 5초 **DECISION TREE next page** 



**ENG OFF Deicing in GN** KE GMP "Deicing Information" REQ DCL Apron "Reg Pushback Deicing Required PADxxx" PARKING BRAKE ----- SET Establish communications with ground personnel. B737-8 BROADBAND SYS s/w ----- OFF FLAPS ------ UP
THRUST LEVERS -----IDLE **ENGINE BLEED AIR SWITCHES ----- OFF** APU BI FFD air switch ----- OFF APU ---- START APU GENERATOR bus switches ----- ON ENGINE ANTI-ICE switches----- OFF Engine Start levers ----- CUTOFF SHUTDOWN CHECKLIST START DE/ANTI-ICING 항공기이동 및 Configuration 변경 금지 AFTER DE/ANTI-ICING IS COMPLETED (TIME CHECK 1분) 용액과 마지막 용액 뿌린 시간 받고 적는다. Holdover Time 결정!!! TIME CHECK 1분후 APU BLEED air switch ----- ON PREFLT CHKlist -> Reg STARTUP -> CHKlist AFTER BOTH ENGINES ARE STARTED ENGINE ANTI-ICE switches----As needed B737-8 BROADBAND SYS s/w ----- ON APU----- As needed Engine BLEED air switches ----- ON FLAP LEVER ----- Set for takeoff or UP ice, snow, slush or standing water, 강수 지속시 -FLAP UP고려 Flight controls ----- Check, as needed AFTER START CHKlist (ATC CLR Confirm) TAXI, BEFORE TAKEOFF, TAKEOFF cold wx 참조!!! DECISION TREE next page

