

VER. 22.12.10

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 | |
| Meter/Feet | Conversion |
| Cold Wx (| Operation |
| ENG ON Deicing | ENG OFF Deicing |

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')

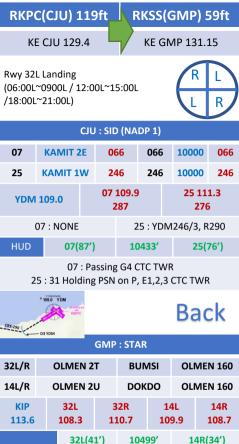
14L(38')

Back

25 111.3

25(76')

DOTOL 160 DOTOL/-10 160



32L(41') 10499' HUD

32R(42') 11811'

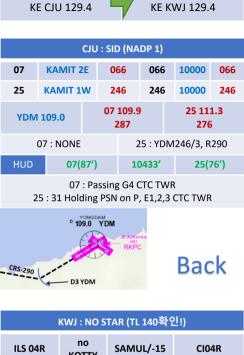
KIP /8(32L/R), YJU R271, T73 /2

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')

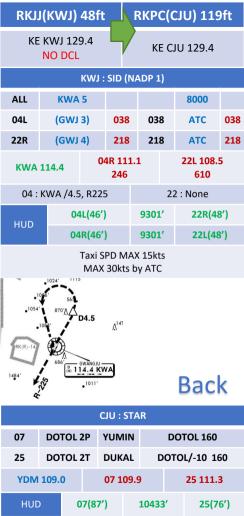
TAXI MAX 15 kts (Max 30kts by ATC)

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

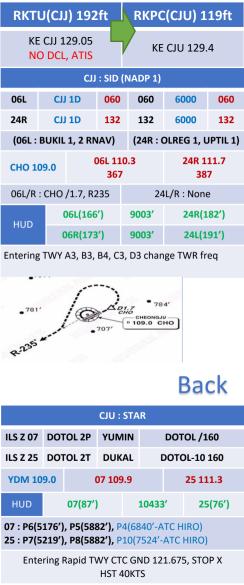
06L 110.3

ILS Z 06L

ILS Z 24R

CHO 119.0

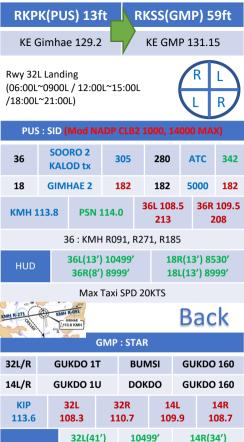
HUD



RKSS(GMP) 59ft RKPK(PUS) 13ft KE GMP 131.15 KE Gimhae 129.2 Rwv 32R Takeoff (06:00L~0900L / 12:00L~15:00L /18:00L~21:00L) GMP: SID (NADP 1) **OSPOT 1T** 324 324 6000 324 32L/R (OSPOT 1Q) 324 324 5000 324 **OSPOT 1U** 144 144 6000 144 14L/R (OSPOT 1Z) 144 144 6000 144 32L 32R 141 14R **KIP** 109.9 108.3 110.7 108.7 113.6 241 242 238 234 14L/R: KIP144/4, R220 32L/R: KIP324/5, R220 YIU R271 T73 /2 32L(41') 10499' 14R(34') HUD 32R(42') 11811' 14L(38') APRON(130.875) -> GND(121.9) -> TWR by ATC(TCP) Back PUS: STAR (36R 136000lbs F40) 36 **KEVOX 3** 9DME LG, 8DME FLAP MASTA **GAYHA 3** MASTA Fix: KMH R283, R280 18 **KMH 113.8 PSN 114.0** 36L 108.5 36R 109.5 18R(13') 8530' 36L(13') 10499' HUD 36R(8') 8999' 18L(13') 8999' 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)



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 |
| 11115 | | 31L(118') | 9039′ 1 | | 3R(111') 3.3 |
| HUE | _ | | | | |

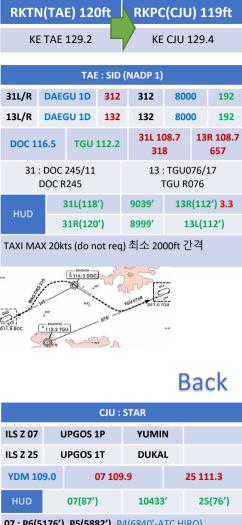
8999

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')

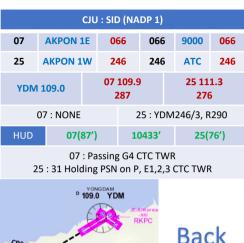


07: P6(5176'), P5(5882'), P4(6840'-ATC HIRO)

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

Entering Rapid TWY CTC GND 121.675, STOP X

HST 40KTS



RKPK(PUS) 13ft

KF Gimhae 129 2

RKPC(CJU) 119ft

KF CILI 129 4

CRS-290 |



D3 YDM

9DME LG, 8DME FLAP 36 **KEVOX 3** ANROD

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

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

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



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)

KE Gimhae 129.2 **KF ICN 131 5** PUS: SID (Mod NADP CLB2 1000, 14000 MAX) SOORO 2 36 305 280 ATC 342 KALOD tx 18 GIMHAF 2 182 182 5000 182 36L 108.5 36R 109.5 PSN 114.0 **KMH 113.8** 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

RKSI(ICN) 23ft

RKPK(PUS) 13ft

| ICN : STAR | | | | | | |
|------------|----------|-----|----|------|-----|---------|
| 33/34 | GUKDO | 2E | EI | NPIL | GUK | (DO 180 |
| 15/16 | GUKDO 2H | | Мι | JNAN | GUK | (DO 180 |
| NCN | 33L | 331 | R | 151 | L | 15R |

113.8 109.3 108.9 111.9

WNG 34L 34R 16L

109.1 16R 112.9 109.95 108.1 110.35 108.55

15L/R 33L/R 34L(23') 12303'

16R(23') HUD

34R(23') 13123' 16L(23')

RWY /8, /6, YJU R271

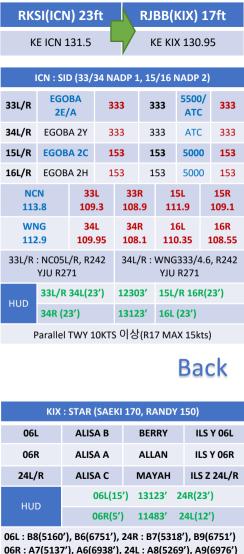
33R: C4(7529'), C5(8513'), 33L: B5('), B6(')

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

34L: P8(6578'), P10(7362'), 34R: N4(6876'), N5(8507')

16R: P5(6574'), P4(7362'), 16L: N3(7043'), N2(8444')

8NM 180kts, 6NM 160kts, Parr TAXI 10kts이상



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: P8(6578'), P10(7362'), 34R: N4(6876'), N5(8507') 16R: P5(6574'), P4(7362'), 16L: N3(7043'), N2(8444') 8NM 180kts, 6NM 160kts, Parr TAXI 10kts이상

| GS KTS | KM | 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 | 1020 | 630 |
| 560 | 1040 | 650 |
| 570 | 1060 | 660 |
| 580 | 1070 | 670 |
| 590 | 1090 | 680 |
| 600 610 | 1110 1130 | 690 700 |
| 620 | 1150 | 700 |
| 630 | 1170 | 710 |
| 640 | 1170 | 730 740 |
| 650 | 1200 | 740 750 |
| 660 | 1200 | 760 |
| 670 | 1240 | 770 |
| 680 | 1260 | 770 |
| 690 | 1280 | 800 |
| 700 | 1300 | 810 |
| 700 | D - 1 | 010 |

| | GMP 3 | 32L (26 | 1') / 32 | R (262' |) / 14R | (254') | |
|-----|-------|---------|----------|----------|---------|--------|------|
| R32 | 8000 | 5500 | 4000 | 2800 | 2300 | 2000 | 4000 |
| 0 | 8450 | 5810 | 4230 | 2970 | 2440 | 2120 | 4230 |
| -5 | 8620 | 5930 | 4310 | 3030 | 2490 | 2160 | 4310 |
| -10 | 8780 | 6040 | 4390 | 3080 | 2530 | 2200 | 4390 |
| R14 | 4000 | 2800 | 1400 | | 4000 | | |
| 0 | 4230 | 2970 | 1490 | | 4230 | | |
| -5 | 4310 | 3030 | 1520 | | 4310 | | |
| -10 | 4390 | 3080 | 1540 | | 4390 | | |
| | | | | | | | |
| | | CJU (| 7 (307 |) / 25 (| 296') | | |
| | 4000 | 2900 | 1800 | 07 | 8000 | 25 | 6000 |
| 0 | 4220 | 3070 | 1900 | | 8450 | | 6340 |
| -5 | 4300 | 3130 | 1940 | | 8620 | | 6460 |
| -10 | 4380 | 3180 | 1970 | | 8780 | | 6590 |
| | | | | | | | |
| | | CJJ 06 | L (387') | / 24R | (296') | | |
| 06L | 4400 | 3900 | 3000 | 2100 | | 7000 | |
| 0 | 4650 | 4110 | 3170 | 2210 | | 7390 | |
| -5 | 4740 | 4200 | 3230 | 2270 | | 7540 | |
| -10 | 4810 | 4260 | 3280 | 2290 | | 7670 | |
| 24R | 6000 | 3700 | 2500 | 2100 | | 6000 | |
| 0 | 6330 | 3900 | 2640 | 2210 | | 6330 | |
| -5 | 6460 | 3980 | 2700 | 2270 | | 6460 | |
| -10 | 6570 | 4040 | 2730 | 2290 | | 6570 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Meter/Feet Conversion Table

China, Mongolia & North Korea

■ FL Conversion

| West | bound | | Eastbound | | |
|-----------------------|----------|---------|-----------|--|--|
| (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 - FLAPS SET |
| 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 |
| ENGINE ANTI-ICE - ENGINE START switches CONT - ENGINE ANTI-ICE switches ON (-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) - WING ANTI-ICE switch |
| APPROACH L/D (FLAP 15 필수 조건일 경우만 VREF ICE 사용) |
| AFTER L/D, SHUTDOWN (TAXI RUNUP, ICE SHEDDING 절차적용) - FLAPS |
| |

ICN Deicina "Deicina Required ENG On Deicina" ICN Apron "Reg 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 ------ UP THRUST LEVERS -----IDLE **ENGINE BLEED AIR SWITCHES ---- OFF** APU BLEED air switch ----- OFF

ENG ON Deicing in ICN

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!!! TIME CHECK 1분후 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 -FLAP UP고려 Flight controls ----- Check, as needed TAXI OUT

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

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

TAKEOFF SIGNAL -> FLAPS 5

FLAPS ----- Set(for takeoff)

(ENG ANTI-ICE + OAT 3도이하) NO RUNUP(OAT 3도이상) NG 70%. -8:50% 5초

Back

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

