# RKPU AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## RKPU - ULSAN / Ulsan Domestic

## RKPU AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

| 1 | ARP coordinates and site at AD                          | 353536N 1292108E<br>181° / 1 020 m from THR 18   |
|---|---|--|
| 2 | Direction and distance from city                        | 039°, 7 km from Ulsan City Hall  |
| 3 | Elevation/Reference temperature                         | 13 m / 31 °C   |
| 4 | Geoid undulation at AD ELEV PSN                         | 30 m   |
| 5 | MAG VAR/Annual change                                   | 8° W (2020) / 0.089° increasing  |
| 6 | Aerodrome Operator, Address,<br>Telephone, Telefax, AFS | Ulsan Airport Branch (Busan Regional Office of Aviation) 1103, Saneop-ro, Buk-gu, Ulsan, 44238, Republic of Korea  Tel: +82-52-289-4740 Telefax: +82-52-289-4750 AFS: RKPUZPZX |
| 7 | Type of traffic permitted(IFR/VFR)                      | IFR/VFR  |
| 8 | Remarks   | NIL  |

# **RKPU AD 2.3 OPERATIONAL HOURS**

| 1  | Aerodrome Operator      | 2100-1300 UTC   |
|----|-------------------------|---|
| 2  | Customs and Immigration | NIL   |
| 3  | Health and Sanitation   | NIL   |
| 4  | AIS Briefing Office     | 2230-1130 UTC   |
| 5  | ATS Reporting Office    | 2230-1130 UTC   |
| 6  | MET Briefing Office     | H24   |
| 7  | ATS                     | 2230-1130 UTC   |
| 8  | Fuelling                | NIL   |
| 9  | Handling                | НО  |
| 10 | Security                | НО  |
| 11 | De-icing                | НО  |
| 12 | Remarks                 | Outside these hours services are available under the pre-coordination (Only passenger flight) |

## **RKPU AD 2.4 HANDLING SERVICES AND FACILITIES**

| 1 | Cargo handling facilities               | Conveyor belt, various vehicles and equipment            |
|---|---|--|
| 2 | Fuel/oil type                           | NIL  |
| 3 | Fuelling facilities/capacity            | NIL  |
| 4 | De-icing facilities                     | Available. See AD chart for location (ACFT stand NR. 1). |
| 5 | Hangar space for visiting aircraft      | NIL  |
| 6 | Repair facilities for visiting aircraft | NIL  |
| 7 | Remarks                                 | NIL  |

|   | RKPU AD 2.5 PASSENGER FACILITIES |   |  |  |  |  |
|---|----------------------------------|---|--|--|--|--|
| 1 | Hotels                           | In Ulsan city   |  |  |  |  |
| 2 | Restaurants                      | 60 Seats, light food services available at AD           |  |  |  |  |
| 3 | Transportation                   | Buses, Taxis and rental cars available at AD            |  |  |  |  |
| 4 | Medical Facilities               | Ambulance services available<br>Hospitals in Ulsan city |  |  |  |  |
| 5 | Bank and Post Office             | Bank and Post office available in the vicinity of AD    |  |  |  |  |
| 6 | Tourist Office                   | Available at AD   |  |  |  |  |
| 7 | Remarks                          | http://www.airport.co.kr/mbs/ulsan/                     |  |  |  |  |

# **RKPU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

| 1 | AD Category for fire fighting               | CAT 7   |
|---|---|---|
| 2 | Rescue equipment                            | - 2 Chemical Fire Fighting Trucks - 1 Ambulance Car - Water: 21 000 L - AFFF: 2 800 L - Dry Chemical: 500 kg  |
| 3 | Capability for removal of disabled aircraft | Specialized aircraft recovery equipment available for up to and including B737-900 size aircraft. The usable equipment list which is 50 ton hydraulic recovery jack, 50 ton crane and other accessory equipment can be provided by airlines.  Korea Airports Corporation is the co-ordinator for the removal of disabled aircraft and can be reached at(Tel: +82-52-219-6312) Airport Duty manager. |
| 4 | Remarks                                     | NIL   |

|   | RKPU AD 2.7 SEASONAL AVAILABILITY - CLEARING |  |  |  |  |  |
|---|--|--|--|--|--|--|
| 1 | Type of clearing equipment                   | <ul> <li>a. 1 Compact runway jet sweeper (working width: about 5.6 m)</li> <li>b. 1 Multi purpose snowplough (working width: about 3.2 m)</li> <li>c. 1 Thawing material spreader</li> <li>d. 1 De-icing Cart</li> </ul> |  |  |  |  |
| 2 | Clearance priorities                         | 1. RWY 18/36, TWY B and Apron (ACFT stands NR. 1, 2, 3) 2. TWY A and Apron (ACFT stand NR. 4)  |  |  |  |  |

NIL

# RKPU AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

| 1 | Designation, Apron surface and strength          | a. Surface: Asphalt b. Strength: PCN 43/F/A/X/T  |
|---|--|--|
| 2 | Designation, Taxiway width, surface and strength | a. Width: 30 m b. Surface: Asphalt c. Strength - "A": PCN 43/F/A/X/T - "B": PCN 43/F/A/X/T |
| 3 | Altimeter checkpoint location and elevation      | Location : At apron Elevation : 9 m  |
| 4 | VOR checkpoints                                  | NIL  |
| 5 | INS checkpoint                                   | See AD chart   |
| 6 | Remarks  | NIL  |

Change: Information of clearance priorities.

Remarks

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# RKPU 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 | Nosewheel guidelines on taxiways and apron   |
|---|---|--|
| 2 | RWY and TWY markings and LGT  | a. RWY Light: Edge, THR and End Marking: Designation, THR, TDZ, CL, side stripe and aiming point b. TWY Light: Edge Marking: TWY & taxilane centerline and holding positions |
| 3 | Stop bars   | NIL  |
| 4 | Remarks   | NIL  |

# **RKPU AD 2.10 AERODROME OBSTACLES**

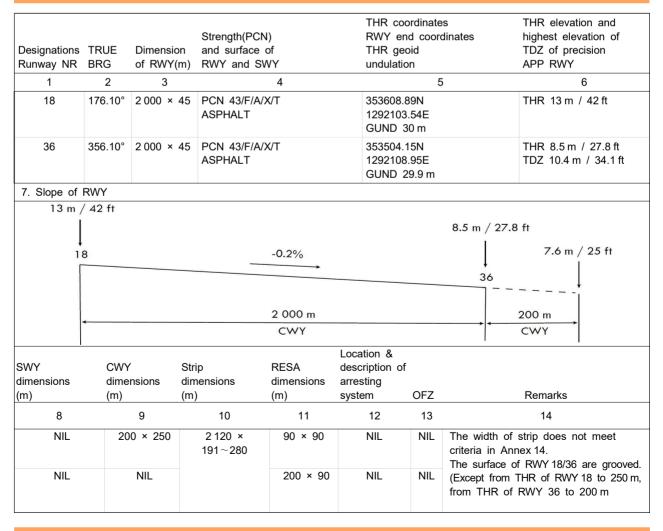
| OBST ID/<br>Designation | OBST type | OBST position        | ELEV/HGT  | Markings/<br>Type, colour | Remarks   |
|-------------------------|-----------|----------------------|-----------|---------------------------|-----------|
| а                       | b         | С                    | d         | е                         | f         |
| RKPUOB001               | Hill      | 354005.0N 1292136.1E | 1 339 ft/ | NIL                       |           |
| RKPUOB002               | Hill      | 353941.7N 1292144.6E | 1 113 ft/ | NIL                       |           |
| RKPUOB003               | Hill      | 353811.0N 1291931.3E | 424 ft/   | NIL                       |           |
| RKPUOB004               | Hill      | 353931.0N 1291916.2E | 964 ft/   | NIL                       |           |
| RKPUOB005               | Hill      | 354225.3N 1292053.9E | 1 774 ft/ | NIL                       | 36 / APCI |
| RKPUOB006               | Mountain  | 354806.3N 1292043.1E | 2 444 ft/ | NIL                       | 18 / TKO  |
| RKPUOB007               | Hill      | 353839.7N 1291841.2E | 785 ft/   | NIL                       |           |
| RKPUOB008               | Building  | 353425.1N 1292056.2E | 169 ft/   | NIL                       |           |
| RKPUOB009               | Pylon     | 353318.2N 1292158.7E | 346 ft/   | NIL                       |           |
| RKPUOB010               | Pylon     | 353230.9N 1292128.2E | 427 ft/   | NIL                       |           |
| RKPUOB011               | Hill      | 353526.7N 1292350.7E | 1 480 ft/ | NIL                       |           |
| RKPUOB012               | contour   | 353521.6N 1292249.6E | 850 ft/   | NIL                       |           |
| RKPUOB013               | Pylon     | 352842.8N 1292218.5E | 623 ft/   | NIL                       | 18 / APC  |
| RKUPOB014               | Pylon     | 352928.3N 1292148.5E | 446 ft/   | NIL                       |           |
| RKPUOB015               | Pylon     | 352621.6N 1291917.2E | 724 ft/   | NIL                       | 36 / TKO  |
| RKPUOB016               | Pylon     | 352517.5N 1291932.5E | 878 ft/   | NIL                       |           |
| RKPUOB017               | Mountain  | 353958.6N 1291515.1E | 2 517 ft/ | NIL                       |           |
|                         |           | In Area 3            |           |                           |           |
| OBST ID/<br>Designation | OBST type | OBST position        | ELEV/HGT  | Markings/<br>Type, colour | Remarks   |
| а                       | b         | С                    | d         | е                         | f         |

Change: Information of aerodrome obstacles remarks(RKPUOB008 ~ RKPUOB010).

### **RKPU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

| 1  | Associated MET Office                      | Ulsan Airport Weather Office  |
|----|--|---|
|    |  | (Tel: +82-52-289-0365, Telefax: +82-52-288-2392)                    |
| 2  | Hours of service                           | Aerodrome Operating hours   |
|    | MET Office outside hours                   |   |
| 3  | Office responsible for TAF preparation     | Ulsan Airport Weather Office  |
|    | Periods of validity                        | 30 hours at 0000, 0600, 1200, 1800 UTC                              |
| 4  | Trend forecast                             | Trend type forecast   |
|    | Interval of issuance                       | 1 hour (METAR) and when SPECI reported                              |
| 5  | Briefing/consultation provided             | Available at the Office for 24 hours, if required                   |
| 6  | Flight documentation                       | Aerodrome forecasts (TAF code form), SIGWX charts, WINTEM           |
|    | Language(s) used                           | charts, SIGMET information in English.                              |
| 7  | Charts and other information available for | Analysis charts (surface and upper air), Prognostic charts, Graphic |
|    | briefing or consultation                   | displays and other model outputs.                                   |
| 8  | Supplementary equipment available          | Satellite and Weather radar imageries                               |
|    | for providing information                  |   |
| 9  | ATS units provided with information        | FIC and TWR   |
| 10 | Additional information                     | Automated METAR is provided during non-operational hours of the     |
|    | (limitation of service, etc.)              | aerodrome.  |
|    |  | All observation data, model outputs and forecasts produced by KMA   |
|    |  | and WAFS are available at the office through internet link.         |

### **RKPU AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**



| RKPU AD 2.13 DECLARED DISTANCES |             |             |             |            |                                       |  |  |
|---------------------------------|-------------|-------------|-------------|------------|---------------------------------------|--|--|
| RWY<br>Designator               | TORA<br>(m) | TODA<br>(m) | ASDA<br>(m) | LDA<br>(m) | Remarks                               |  |  |
| 1                               | 2           | 3           | 4           | 5          | 6                                     |  |  |
| 36                              | 2 000       | 2 000       | 2 000       | 2 000      | NIL                                   |  |  |
| 36                              | 984         | 984         | 984         | -          | Take-off from intersection with TWY A |  |  |
| 36                              | 1 104       | 1 104       | 1 104       | -          | Take-off from intersection with TWY B |  |  |
| 18                              | 2 000       | 2 200       | 2 000       | 2 000      | NIL                                   |  |  |
| 18                              | 1 047       | 1 247       | 1 047       | -          | Take-off from intersection with TWY A |  |  |
| 18                              | 927         | 1 127       | 927         | -          | Take-off from intersection with TWY B |  |  |

## **RKPU AD 2.14 APPROACH AND RUNWAY LIGHTING**

|            | APCH   |         |           |          | RWY             | RWY          |         |         |         |
|------------|--------|---------|-----------|----------|-----------------|--------------|---------|---------|---------|
|            | LGT    |         |           |          | Center          | edge LGT     | RWY     |         |         |
|            | type   | THR LGT | VASIS     |          | line LGT        | LEN, Spacing | End LGT | SWY LGT |         |
| RWY        | LEN    | Colour  | (MEHT)    | TDZ, LGT | Length, Spacing | Colour       | Colour  | LEN(m)  |         |
| Designator | INTST  | WBAR    | PAPI      | LEN      | Colour, INTST   | INTST        | WBAR    | Colour  | Remarks |
| 1          | 2      | 3       | 4         | 5        | 6               | 7            | 8       | 9       | 10      |
| 18         | SSALF  | Green   | PAPI      | Simple   | NIL             | 2 000 m      | RED     | NIL     | NIL     |
|            | 330 m  | -       | Left/3.8° | TDZ LGT  |                 | 60 m         | -       |         |         |
|            | LIH    |         | (59 ft)   |          |                 | White, LIH   |         |         |         |
|            |        |         |           |          |                 |              |         |         |         |
| 36         | ALSF-1 | Green   | PAPI      | NIL      | NIL             | 2 000 m      | RED     | NIL     | NIL     |
|            | 720 m  | _       | Left/3°   |          |                 | 60 m         | _       |         |         |
|            | LIH    |         | (56 ft)   |          |                 | White, LIH   |         |         |         |
|            |        |         | ()        |          |                 | , =          |         |         |         |
|            |        |         |           |          |                 |              |         |         |         |

#### Simple TDZ LGT

- Simple touchdown zone lights located each two on both side of the runway centerline are installed 622.8 m from the threshold of RWY 18.

#### RWY 18 PAPI Restrictions

- PAPI unusable beyond 10° right side due to angular coverage.
- PAPI unusable beyond 7° left side due to OBST.

# RKPU AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

| 1 | ABN/IBN location, characteristics and   | ABN : At tower building, FLG W/G EV 2~3 SEC  |
|---|---|--|
|   | hours of operation                      | IBN: NIL                                     |
|   |   | H24  |
| 2 | LDI location and LGT                    | LDI : NIL                                    |
|   | Anemometer location and LGT             | Anemometer : NIL                             |
| 3 | TWY edge and center line lighting       | a. Edge : All TWY                            |
|   |   | b. Center line: NIL                          |
| 4 | Secondary power supply/switch-over time | Secondary power supply to all lighting at AD |
|   |   | Switch-over time: 15 SEC                     |
| 5 | Remarks                                 | NIL  |
|   |   |  |

Change: Information of declared DIST.



## **RKPU AD 2.16 HELICOPTER LANDING AREA**

| 1 | Coordinates TLOF or THR of FATO Geoid undulation          | -                  |
|---|---|--------------------|
| 2 | TLOF and/or FATO elevation M/FT                           | -                  |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | -                  |
| 4 | True BRG of FATO  | -                  |
| 5 | Declared distance available                               | -                  |
| 6 | APP and FATO lighting                                     | -                  |
| 7 | Remarks   | As directed by ATC |

## **RKPU AD 2.17 ATS AIRSPACE**

| 1 | Designation and lateral limit   | Ulsan CTR<br>A circle, 5 NM radius centered at ARP                           |
|---|---------------------------------|--|
| 2 | Vertical limits                 | SFC to 3 000 ft AGL  |
| 3 | Airspace classification         | D  |
| 4 | ATS unit call sign<br>Languages | Ulsan Tower<br>English / Korean  |
| 5 | Transition altitude             | 14 000 ft AMSL   |
| 6 | Operational hours               | 2200-1230 UTC  |
| 7 | Remarks                         | Refer to ENR 2.1-9, RKPU Visual Approach Chart to identify Class D airspace. |

## **RKPU AD 2.18 ATS COMMUNICATION FACILITIES**

| Service     |                 |                                       |                    |                                |
|-------------|-----------------|---------------------------------------|--------------------|--------------------------------|
| designation | Call sign       | Channel                               | Hours of operation | Remarks                        |
| 1           | 2               | 3                                     | 4                  | 5                              |
| APP         | Pohang Approach | 124.25 MHz<br>120.2 MHz<br>232.4 MHz  | H24                | NIL                            |
|             | Ulsan Arrival   | 119.250 MHz<br>317.525 MHz            | 2230-1130 UTC      |                                |
| TWR         | Ulsan Tower     | 118.75 MHz<br>236.6 MHz<br>225.55 MHz | 2230-1130 UTC      |                                |
| GND         | Ulsan Ground    | 121.75 MHz                            | 2230-1130 UTC      | Digital PDC service available  |
| ATIS        | Ulsan Airport   | 127.625 MHz<br>233.55 MHz             | 2230-1130 UTC      | Digital ATIS service available |
| EMERG       |                 | 121.5 MHz<br>243.0 MHz                | 2230-1130 UTC      |                                |

## Scheduled Inspection Time

- APP(124.25 MHz, 232.4 MHz, 119.250 MHz, 317.525 MHz), TWR, GND, ATIS, EMERG
  - : Every 1st WED(1400-2000 UTC) of the month.

#### **RKPU AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

| MAG VAR,<br>Type of<br>supported OPS   | ID  | Frequency  | Hours of operation   | transmitting<br>antenna<br>coordinates | DME<br>transmitting<br>antenna | Remarks   |
|--|---|--|--|--|--------------------------------|---|
| 1  | 2   | 3  | 4  | 5                                      | 6                              | 7   |
| LOC 36<br>(8° W/2020)<br>ILS CAT I<br>(8° W or 352°)   | IULS  | 110.3 MHz  | H24  | 353616.3N<br>1292102.9E                |                                | Scheduled Inspection time :<br>Every 2nd WED(1400-2000 UTC)<br>of the month |
| DME 36   | -   | 1001 MHz<br>(CH 40X)   | H24  | 353513.8N<br>1292112.2E                | 0 m                            |   |
| GP 36  | -   | 335 MHz  | H24  | 353513.8N<br>1292112.1E                |                                |   |
| TVOR/DME<br>(8° W/2020)  | USN   | 111.4 MHz<br>(CH 51X)  | H24  | 353554.6N<br>1292111.8E                | 30 m                           | Scheduled Inspection time:<br>Every 3rd WED (1400-2000 UTC)<br>of the month |
| VORTAC<br>(8° W/2020)  | KPO   | 112.5 MHz<br>(CH 72X)  | H24  | 355837.9N<br>1292828.3E                | 800 ft                         | Unusable and scheduled inspection time:  See ENR 4.1 for the details        |
| VOR unusable  RDL 301-340 b  RDL 261-300 b  RDL 151-160 b  RDL 000-020 b  DME unusable  RDL 301-340 b  RDL 261-300 b  RDL 201-260 b  RDL 201-260 b  RDL 151-160 b  RDL 021-150 b | eyond 12 leyond 18 leyond 19 leyond 20 leyond 22 leyond 16 leyond 16 leyond 10 leyond | DME below 9 COME below 7 COME below 7 COME below 7 COME below 7 COME below 9 COME below 9 COME below 9 COME below 7 COME below 6 COME below 15 | 000 ft<br>000 ft<br>000 ft<br>000 ft<br>000 ft<br>000 ft<br>000 ft<br>000 ft<br>000 ft |  |                                |   |

### **RKPU AD 2.20 LOCAL AERODROME REGULATIONS**

- 1. Airport Regulations
- Aircraft operation is restricted when surface friction measurement is less than 0.30 due to shortage of the runway 1.1 strip(See AD chart).
- 1.2 All aircraft requiring parking on the aircraft stand must request prior permission, Tel: +82-52-219-6330(Korea Airports Corporation). This does not apply to locally based aircraft and scheduled services.
- 1.3 Pilots of departing IFR aircraft can request ATC clearance up to 10 minutes before ETD or push-back. Departing aircraft on first contact with ULSAN GROUND must state aircraft identification, destination, proposed altitude, stand number and the code letter of the latest ATIS received.
- 1.4 Pre-departure clearance by datalink is available at ULSAN airport for suitably equipped aircraft.
- All aircraft contact ULSAN TWR prior to entering class D airspace.(Refer to ENR 2.1-9) 1.5
- 2. Ground Movement
- Visiting General Aviation aircraft will be directed by ATC to taxi to aircraft stand then follow the marshaller's 21 instruction for parking.

Change: Withdrawal of local aerodrome regulations NR. 2.2 and 2.3.

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2.2 Aircraft shall maintain idle thrust in the apron. In case of using breakaway thrust, aircraft shall maintain minimum breakaway thrust.

- 2.3 Radio Frequency Change Procedure
- 2.3.1 Arrival aircraft shall change radio frequency from ULSAN TOWER(118.75 MHz) to ULSAN GROUND(121.75 MHz) when vacating Runway.
- 2.3.2 Departure aircraft shall change radio frequency from ULSAN GROUND(121.75 MHz) to ULSAN TOWER(118.75 MHz) when start taxiing in the apron.
- Warning
- 3.1 Single-engined aircraft shall use caution when overflying the chemical complex on the south of the aerodrome.
- 3.2 Many flare stacks are located in the chemical complex.
- 3.3 Caution large concentrations of birds maybe on and in the vicinity of the aerodrome.
- 3.4 Grass cutting may take place on a daily basis between June and October inclusive within the strip enclosing Runway 18/36 and the equipment is under ATC control. Circuit flying may be restricted at certain times to permit grass cutting in the areas immediately adjacent to the runway.
- 3.5 High-rise buildings(700 ft AMSL) are sited approximately 2.8 NM southwest of the aerodrome, in the fixed-wing VFR Traffic Circuit(See AD 2-12 VFR Traffic Circuits). Pilots are advised to exercise extreme caution when flying in the visual circuit
- 3.6 OBST(mountainous terrain) rising to 767 m (2 517 ft AMSL) 2.3 NM North of "N" VFR Reporting point (See AD 2-12 VFR Traffic Circuits).
- 3.7 OBST(mountainous terrain) rising to 447 m (1 465 ft AMSL) between "N" and "W" VFR Reporting point (See AD 2-12 VFR Traffic Circuits).
- 3.8 OBST(mountainous terrain) rising to 600 m (1 969 ft AMSL) 2.1 NM West of "S" VFR Reporting point (See AD 2-12 VFR Traffic Circuits).
- 4. Training Flights
- 4.1 Training flights may only take place by prior arrangement with ATC(Tel: +82-52-289-4740).
- 4.2 ATC must be advised of any changes and cancellations of the flight plan.
- 4.3 The number of aircraft in the visual circuit will be determined by ATC, subject to the prevailing weather and traffic conditions.
- 4.4 Training may be curtailed if significant noise complaints are received.
- 4.5 Training flights will not be given priority over essential aerodrome maintenance work.
- 4.6 Simulated engine failures are not permitted.

#### **RKPU AD 2.21 NOISE ABATEMENT PROCEDURES**

- 1. Aircraft Operating Procedures(Except helicopter)
- 1.1 Take off
- 1.1.1 NADP 1(RWY 18, RWY 36)

All departing aircraft should apply ICAO PANS - OPS(Doc 8168) Volume I Noise Abatement Departure Procedures One (NADP ONE).

- a. Take-off to 800 ft AGL
  - take-off power
  - take-off flaps/slats setting
- initial climb speed is not less than V2 + 10 kt
- b. At 800 ft AGL
  - reduce power/thrust to Not less than climb power
- c. 800 ft AGL to 3 000 ft AGL
  - maintain with flaps/slats in the take-off configuration
  - climb at V2 + 10 to 20 kt

Change : Information of item numbers( $2.4 \rightarrow 2.2, 2.5 \rightarrow 2.3$ ).

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- d. After passing an altitude of Not less than 3 000 ft AGL
- accelerate and retract flaps on schedule to En-route climb

#### 1.2 Approach

For noise abatement using a reduced flap setting landing procedure is recommended. However, use of this procedure is subject to captain's decision and safety prevail at all times.

- 1.2.1 Delayed Flap setting Approach
  - a. for approach to land on RWY 18;
    - maintain intermediate flap setting until 1 NM prior to FAF.
    - set final landing flaps within 1 NM prior to FAF.
  - b. for approach to land on RWY 36;
    - maintain intermediate flap setting until 1 NM prior to FAF(FAP).
    - set final landing flaps within 1 NM prior to FAF(FAP).
- 1.2.2 Reduced Flap setting Approach
  - a. When the landing weight and runway length are enough,
  - b. When the runway condition is dry,
  - c. When the tailwind component is not existent,
  - d. Set the certificated shallow landing flaps in the approved performance section of the Airplane Flight manual to land.
- 1.3 Exempted cases.
- 1.3.1 Aircraft need not be complied with the procedures described in paragraph 1.1 and 1.2 above in adverse operating conditions such as;
  - a. if the runway is not clear and dry. i.e. it is adversely affected by, snow, slush, ice, water or other substances;
  - b. in conditions when the ceiling is lower than 500 ft, or when the horizontal visibility is less than 1.9 km.
  - c. when the cross-wind component, including gusts, exceeds 15 kt.
  - d. when the tailwind component, including gusts, exceeds 5 kt.
  - e. when the wind shear has been reported or forecast, or thunderstorms are expected to affect the approach.
- Aircraft unable to comply with the procedures described in paragraph 1.1 and 1.2 above for any reason shall inform ATC.
- 1.4 Operational Limitations
- 1.4.1 Engine test shall be conducted with prior permission from the airport control tower. It shall be conducted at the approved place and approved conditions only. However, the power setting(s) shall not exceed idle thrust.

#### **RKPU AD 2.22 FLIGHT PROCEDURES**

1. **IFR** 

> Instrument flight procedures are based on the guidance contained in ICAO Doc 8168-Procedures for Air Navigation Service-Aircraft Operations(PANS-OPS), except instrument approach procedure for RWY 18(under FAA TERPS).

1.1 Straight in approach

Refer to Instrument approach charts.

1.2 Take-off weather minima

| CATEGORY               | RWY     | Facilities        |                  |                  |  |
|------------------------|---------|-------------------|------------------|------------------|--|
| CATEGORY               | I KVV I | REDL & RCL        | REDL or RCL      | NIL (Day Only)   |  |
| Multi-Engine ACFT with | 18      | 400 m / 1 200 ft  | 400 m / 1 200 ft | 500 m / 1 600 ft |  |
| TKOF ALTN AD           | 36      | 400 m / 1 200 ft  | 400 m / 1 200 ft | 500 m / 1 600 ft |  |
| OTHERS                 | 18      | - AVBL LDG MINIMA |                  |                  |  |
| OTHERS                 | 36      |                   |                  |                  |  |

Note: SIDs are designed in accordance with STANDARDS for FLIGHT PROCEDURE DESIGN

- 1. The TDZ RVR/VIS may be assessed by the pilot
- 2. For Night Operations at least REDL or RCLL and RENL are available
- 1.3 Fuel Dumping Area

Fuel Dumping Area is established within POHANG TMA as follows;

a. Area: A circle, 3 NM radius centered at R 100 USN/D12 (353520N 1293551E)

b. Altitude: 8 000 ft AMSL

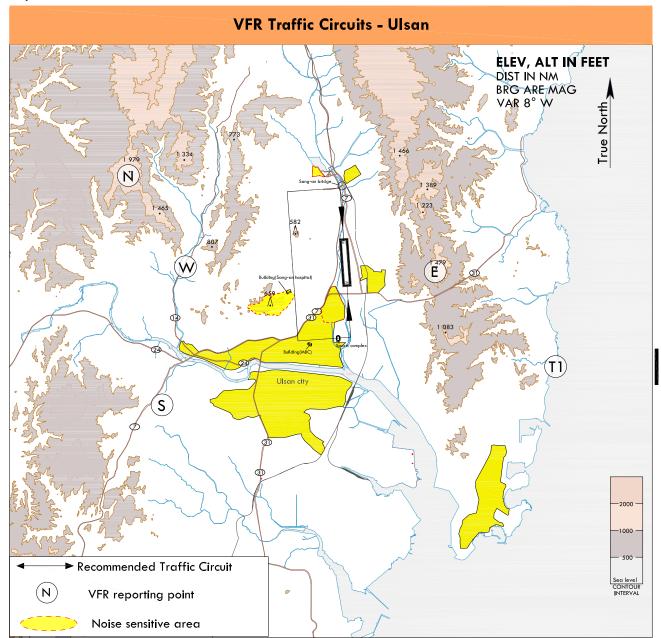
OFFICE OF CIVIL AVIATION AIRAC AIP AMDT 13/15 Effective: 1600UTC 3 FEB 2016 AIP **RKPU AD 2 - 10** Republic of Korea 17 DEC 2020

- 2. **VFR**
- 21 VFR Procedure
- 2.1.1 VFR Weather Minima
  - VFR flight will be permitted under the condition as below;
  - a. Ground visibility: Not less than 5 km (3 SM) (If Ground visibility is not reported, Flight visibility: Not less than 5 km)
  - b. Ceiling: At or above 450 m (1500 ft)
- 2.1.2 VFR Traffic Circuits: Refer to page RKPU AD 2-12
- 2.1.3 VFR Reporting Points: Refer to page RKPU AD 2-12
- 2.1.4 VFR Traffic Circuits Altitude(AMSL)
  - a. CAT A, B: 1500 ft AMSL
- 2.1.5 VFR Flight procedure
  - 1. Departure procedure
  - a. After departing from RWY 18, fly the following routes unless otherwise directed by ATC;
  - For north bound: Turn right proceed to N. Cross N at or above 3 000 ft.
  - For west bound : Turn right proceed to W. Cross W at or above 2 000 ft.
  - For south bound : Turn right proceed to S. Cross S at or above 2 500 ft.
  - For east bound : Maintain RWY HDG until reaching 1 500 ft, then turn left proceed to E. Cross E at or above 3 000 ft.
  - For east bound: Turn left proceed to T1. Cross T1 at 2500 ft.
  - b. After departing from RWY 36, fly the following routes unless otherwise directed by ATC;
  - For north bound: Turn left proceed to N. Cross N at or above 3 000 ft.
  - For west bound : Turn left proceed to W. cross W at or above 2 000 ft.
  - For south bound: Turn left proceed to S via W. Cross W at or above 2 000 ft and S at or above 2 500 ft.
  - For east bound : Turn left proceed to E. Cross E at or above 3 000 ft.
  - 2. Arrival procedure
  - a. Inbound from south/west: Proceed to W via S, then fly the following routes unless otherwise directed by ATC. Cross S at or above 2 500 ft and W at or above 2 000 ft.
  - When RWY 18 in use: Enter into the right downwind leg at 1 500 ft(HEL 1 000 ft), then land.
  - When RWY 36 in use: Enter into the left downwind leg at 1 500 ft(HEL 1 000 ft), then land.
  - b. Inbound from north: Proceed to N, then fly the following routes unless otherwise directed by ATC. Cross N at or above 3 000 ft
  - When RWY 18 in use: Enter into the right downwind leg at 1 500 ft(HEL 1 000 ft), then land.
  - When RWY 36 in use: Enter into the left downwind leg at 1500 ft(HEL 1000 ft), then land.
  - c. Inbound from east: Proceed to E, then fly the following routes unless otherwise directed by ATC. Cross E at or above 3 000 ft.
  - When RWY 18 in use: Enter into the right downwind leg at 1 500 ft(HEL 1 000 ft), then land.
  - When RWY 36 in use: Enter into the left downwind leg at 1500 ft(HEL 1000 ft), then land.
- 22 Special VFR
- 2.2.1 Special VFR flight for taking off or landing may only be permitted except helicopters when ;
  - a. The Ground visibility is not less than 1500 m.
  - b. If ground visibility is not reported, the Flight visibility is not less than 1500 m.
- 2.2.2 For Special VFR operation, the pilot shall;
  - a. Get a clearance from ATC.
  - b. Stay clear of clouds.
  - c. Fly within control zone as cleared by ATC.
  - d. Maintain visual reference with surface or water.
  - e. Maintain at least 1500 m of flight visibility.
  - \* At night(between sunset and sunrise), the pilot must have an instrument rating and the aircraft must be equipped for IFR flight under Aviation Act.(Except for helicopters)

Change: Establishement of VFR Flight departure procedure for east bound.

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- Radio communication failure procedure
- 3.1 in VMCs
  - 1. Squawk 7600
  - 2. Continue to fly in VMC
  - 3. Land at nearest suitable aerodrome
- 3.1.1 Procedure for VFR flights
  - 1. Squawk 7600
  - 2. Proceed to and hold over west downwind for RWY 18/36, west bound; and
  - 3. When able to see light gun signal from control tower, follow that instruction; or
  - 4. When unable to see light gun signal from control tower, hold over downwind for RWY 18/36 until ETA or for 10 MIN, whichever is longer; then
  - 5. Land on RWY 18/36 in use as appropriate.
  - \* Pilot shall use caution traffic landing and take-off from/to runway.
- 3.2 in IMCs or when conditions are such that it does not appear likely that the pilot will complete the flight in accordance with 3.1;
- 3.2.1 DEPARTURE AIRCRAFT
  - 1. Squawk 7600
  - 2. Maintain the last assigned speed and level, or minimum flight altitude if higher, for a period of 7 min following;
    - a. The time the transponder is set to Code 7600; or
    - b. The time the last assigned level or minimum flight altitude is reached; whichever is later and thereafter adjust level and speed in accordance with the filed flight plan;
  - 3. When being vectored or having been directed by ATC, proceed in the most direct manner possible to rejoin the current flight plan route no later than the next significant point, taking into consideration the applicable minimum flight altitude :
- 3.2.2 ARRIVAL AIRCRAFT
  - 1. Squawk 7600
  - 2. Follow the STAR issued by ATC. When being vectored or having been directed by ATC, proceed in the most direct manner possible to join the STAR no later than the next significant point. then commence descent as filed.
  - 3. Start approach to the assigned runway without delay.
  - 4. If no specific runway for landing has been assigned, start approach to RWY 36 without delay.



# \* NOTE

- All VFR flight operation within ULSAN control zone shall maintain two way communication with ULSAN TWR.
- Pilots are encouraged to use the recommended VFR traffic circuit for traffic flow, noise abatement, obstacle avoidance. However, helicopter should fly within 0.7 NM from RWY at 1 000 ft AMSL.
- The use of the recommended VFR traffic circuit does not alter the responsibility of each pilot to see and avoid other aircraft, obstacle.

| VFR Traffic Circuit Altitude |               |  |    |    |  |  |
|------------------------------|---------------|--|----|----|--|--|
| Category A B C D             |               |  |    |    |  |  |
| Altitude                     | 1 500 ft AMSL |  | N, | /A |  |  |

| Reporting Point | Goegraphical Name                             | Position                             | Coordinates         | Altitude(AMSL)       |  |
|-----------------|---|--------------------------------------|---------------------|----------------------|--|
| N               | Guksubong(Mt.)(국수봉)                           | 5.8 NM NW of Ulsan<br>R 296 USN/D5.7 | 353746N<br>1291434E | At or above 3 000 ft |  |
| W               | Ulsan Wild Flower Learnig Center<br>(울산들꽃학습원) | 4.0 NM W of Ulsan<br>R 272 USN/D4.0  | 353531N<br>1291617E | At or above 2 000 ft |  |
| S               | Ulsan Munsu Football Staduim<br>(울산문수축구경기장)   | 5.7 NM SW of Ulsan<br>R 238 USN/D6.0 | 353207N<br>1291534E | At or above 2 500 ft |  |
| E               | Muryongsan(무룡산)                               | 2.2 NM E of Ulsan<br>R110 USN/D2.2   | 353527N<br>1292351E | At or above 3 000 ft |  |
| TI              | Jujeon Mongdol(주전몽돌)                          | 5.8 NM SE of Ulsan<br>R 118 USN/D5.8 | 353306N<br>1292728E | At 2 500 ft          |  |

Change: Establishment of VFR reporting point(T1, Jujeon Mongdol).

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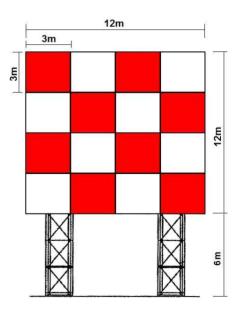
#### **RKPU AD 2.23 ADDITIONAL INFORMATION**

- 1. Horizontal Surface height differs partially.
- 2. Bird concentrations in the vicinity of airport

Due to bird habitats in the Ulsan airport, pilots shall pay attention to crash with birds.

- Every January until March, and every October until December in the one or two hours after sunrise, a flock of jackdaws moves from resting area (approximately 13 km far away from the threshold of RWY 36) to the Dongcheon river or the field of airport.
  - Also, every April until September in the same hours, there are concentrated activities that birds which are mainly white-plumed egret and grey heron move from resting area (mountains which are located in approximately 8 km far away from the airport) to feeding area (nearby airport).
  - Additionally, resident birds, such as magpie and sparrow, always fly to the field nearby airport.
- The activity altitude of birds is approximately 2 000 ft(600 m). Also, before sunset, activities of the birds occur above the same way when returning to the resting area during one or two hours.
- Control tower shall offer pilots information about the movement of birds.
- Especially, during this time, control tower shall keep pilots informed that landing lights of aircraft are needed to turn on when take-off and approach for landing.
- Furthermore, preventive activities against bird strikes, such as operation of B.A.T(Bird Alert Team) and devices (cannon, shotgun, etc) which scare birds away, shall be carried out. Also, the measures for eliminating resting or feeding area of birds is being taken in the airport boundary, not enough sufficient.
- The measures are as followings : spraying plants with insecticide and eliminating waterway or puddle, improving methods of waste disposal from the airport.
- 3. Checker Board for Visual reference point
  - Checker Board for Visual reference point to help approach procedure to RWY 18
  - Location: The place is located in 3.6 km far away from THR RWY 18. (Coordinates: 353803.7N 1292038.3E)
  - Board Size: 12 m x 12 m (total height: 18 m)
  - Board Color : White/Red(Cross Stripes)
  - Lights
  - a. Type: LED band type(Cross Stripes)
  - b. Luminous intensity: 180 cd/m
  - c. Color: White
  - Operation time schedule: depend on ATC
  - Diagram





## **RKPU AD 2.24 CHART RELATED TO THE AERODROME**

| Aerodrome Chart ·····  | RKPU         | AD       | CHART          | 2-1        |
|--|--------------|----------|----------------|------------|
| Aerodrome Obstacle Chart - ICAO Type A   | RKPU<br>RKPU | AD<br>AD | CHART<br>CHART | 2-3<br>2-4 |
| Aerodrome Obstacle Chart - ICAO Type B   | RKPU         | AD       | CHART          | 2-5        |
| SID - ICAO - RWY 18 - RNAV KPO 1M, RNAV APARU 1MSID - ICAO - RWY 18 - KPO 7S, APARU 7S, KPO 1A |              |          |                |            |
| SID - ICAO - RWY 18 - KPO 75, APARU 75, KPO 1A   |              |          |                |            |
| SID - ICAO - RWY 36 - KPO 8N, APARU 1A, APARU 8N   |              |          |                |            |
| STAR - ICAO - RWY 18 - RNAV LAPAL 2D, RNAV APARU 2D  | RKPU         | AD       | CHART          | 2-10       |
| STAR - ICAO - RWY 36 - RNAV LAPAL 2C, RNAV APARU 2C  | RKPU         | AD       | CHART          | 2-11       |
| ATC Surveillance Minimum Altitude Chart - ICAO(Refer to RKTH AD CHART 2-10)                    | RKTH         | AD       | CHART          | 2-10       |
| Instrument Approach Chart - RWY 18 - RNP Y   | RKPU         | AD       | CHART          | 2-12       |
| Instrument Approach Chart - RWY 18 - RNP Z(AR)   |              |          |                |            |
| Instrument Approach Chart - RWY 18 - VOR ·····   |              |          |                |            |
| Instrument Approach Chart - RWY 36 - ILS Y or LOC Y  |              |          |                |            |
| Instrument Approach Chart - RWY 36 - ILS Z or LOC Z  |              |          |                |            |
| Instrument Approach Chart - RWY 36 - RNP   |              |          |                |            |
| Instrument Approach Chart - RWY 36 - VOR   | RKPU         | AD       | CHART          | 2-18       |
| Visual Approach Chart  | RKPU         | AD       | CHART          | 2-19       |
| Bird concentrations in the vicinity of the airport   | RKPU         | AD       | CHART          | 2-20       |