

WMKP AD 2.1 AERODROME LOCATION INDICATOR AND NAME

WMKP - PENANG INTERNATIONAL AIRPORT

WMKP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	LAT 051750N LONG 1001636E Centre of RWY
2	Direction and distance from city	Dist 14 KM (7.5 NM) brg 205° fm KOMTAR building.
3	Elevation / Reference temperature	11 FT (3.4 M) / 31.9° C
4	Geoid Undulation (ARP)	-11.610 M
5	MAG VAR / Annual change	21 min 00 sec West (2012)
6	AD Administration, address, telephone, telefax, telex, AFS	Operator: Malaysia Airports Sdn. Bhd. Penang International Airport 11900 Bayan Lepas Penang. Tel : 04 - 6434411 Fax : 04 - 6435339 ATC Services: Department of Civil Aviation Malaysia Penang International Airport 11900 Bayan Lepas Penang. Tel : 04 - 6444911 Fax : 04 - 6443285 04 - 6404287 (Tower) E-Mail : atcpn@tm.net.my
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	Nil.

WMKP AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	Customs : 2200 - 1500, thereafter avbl on request Immigration : 2200 - 1500, thereafter avbl on request
3	Health and sanitation	2200 - 1500, thereafter avbl on request
4	AIS Briefing Office	Nil
5	ATS Reporting Office (ARO)	H24
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	PETRONAS : H24
9	Handling	Avbl on request.
10	Security	H24
11	De-icing	Nil
12	Remarks	Nil

WMKP AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By Malaysia Airlines, Kuala Lumpur Airport Services.
2	Fuel / Oil types	AVGAS 100, Jet A1
3	Fuelling facilities / capacity	Hydrant refuelling, bowser / 3.5 million litre.
4	De-icing facilities	Nil
5	Hangar space available for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

WMKP AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in town. Hotel reservation counter in terminal.
2	Restaurants	Restaurant in terminal building.
3	Transportation	Taxi and rental car.
4	Medical facilities	First Aid in terminal building and General Hospital nearby and in town.
5	Bank and Post offices	Bank and Currency Exchange, Mini Postal Service in terminal building.
6	Tourist Office	Tourist Information Counter in terminal building.
7	Remarks	Duty Free Shops.

WMKP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Required : CAT 9 Available : CAT 9 Trained personnel : 70 Persons 16 persons per shift
2	Rescue equipment	Type of vehicle : a) Ultra Large Foam Tender (3 units) b) Rapid Intervention Vehicle (1 unit)
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

WMKP AD 2.7 SEASONAL AVAILABILITY - CLEARING

NOT APPLICABLE

WMKP AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Terminal Apron : Surface : Rigid Concrete Strength: LCN 100 General Aviation Apron : Surface : Tarmac Strength : LCN 55 Cargo Apron Surface : Rigid Concrete Strength : PCN 100/R/D/X/U
2	Taxiway width, surface and strength	Taxiway A and C : Width : 22.86 M Surface : Flexible Paved Strength : LCN 70 Taxiway B, D, E, F, G and H Width : 35 M Surface : Flexible Paved Strength : PCN 105/F/B/X/U Taxiway J : Width : 24 M Surface : Rigid and Flexible Paved Strength : PCN 105/F/B/X/U Connecting TWY to General Aviation Apron : Width : 18 M Surface : Tarmac Strength : LCN 55
3	ACL location and elevation	Location: Terminal Apron Elevation: 3.6 M Location: Cargo Apron Elevation: 3.04 M Location: General Aviation Apron Elevation: 3.04 M
4	VOR / INS checkpoint	VOR : Nil INS : Nil
5	Remarks	TWY 'C' not avbl for wide-bodied acft after LDG Rwy 04 due acute turn into TWY 'A'.

WMKP 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	Yellow numbering, yellow guide lines, illuminated RLG Docking System for acft stands with air bridges.
2	RWY and TWY markings and LGT	RWY : Edge Light, variable intensity. Green Threshold Light. Red RWY End Lights. White Centre and Side lines, Touchdown, Fixed distance, Rwy Designation. TWY : Green Centreline Lights. Green and Yellow Exit TWY Centreline Lights. Blue Edge Lights at intersection only. Yellow Centreline, TWY Holding Point, Intermediate Holding Points. Illuminated Guidance Sign. SWY : Nil.
3	Stop bars	Nil
4	Remarks	Nil

WMKP AD 2.10 AERODROME OBSTACLES

RWY / Area effected	Obstacle Type Elevation Markings / LGT	Coordinates
a	b	c
	Hill, dist 1.81 KM, brg 004° (T) fm ARP, hgt 390 FT MSL.	051845N 1001650E
	Hill, dist 5.39 KM, brg 058° (T) fm ARP, hgt 693 FT MSL.	051925N 1001910E
	Hill, dist 3.32 KM, brg 239° (T) fm ARP, hgt 563 FT MSL.	051702N 1001508E
	Hill, dist 3.99 KM, brg 178° (T) fm ARP, hgt 693 FT MSL.	051540N 1001645E
	Hill, dist 2.89 KM, brg 184° (T) fm ARP, hgt 517 FT MSL.	051615N 1001640E
	Aerial Mast, dist 10.2 KM, brg 349° fm ARP, hgt 2200 FT MSL. Lgtd.	-
	Building, hgt 220 FT MSL. Lgtd.	051742.7N 1001511.4E
	Building, hgt 266 FT 8 IN MSL. Lgtd.	052003.7N 1001644.4E
	Building, hgt 289 FT MSL. Lgtd.	050858.8N 1001325.4E
	Building, hgt 412 FT MSL. Lgtd.	051932.7N 1001701.4E
	Building, hgt 317 FT MSL. Lgtd.	051958.7N 1001725.4E
	Building, hgt 450 FT MSL. Lgtd.	052016.7N 1001701.4E
	Building, hgt 255 FT MSL. Lgtd.	051934.7N 1001631.4E
	Building, hgt 270 FT MSL. Lgtd.	051828.7N 1001610.4E
	Building, hgt 390.4 FT MSL. Lgtd.	052000.7N 1001730.4E
	Building, hgt 253 FT MSL. Lgtd.	051904.7N 1001617.4E
	Buildings erected wi coords 051840.8N 1001643E, 051939.2N 1001738.4E, 052055.3N 1001806.0E, 052057.6N 1001625.5E, 051959N 1001506E, hgt 100M Agl.	

WMKP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	PENANG INTERNATIONAL
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	Bayan Lepas Meteorological Office 24
4	Type of landing forecast Interval of issuance	TREND Half hourly
5	Briefing / consultataion provided	Provided
6	Flight documentation Language(s) used	Charts, Tabular Form and Abbreviated Plain Language Text English
7	Charts and other information available for briefing or consultation	Flight Level Wind/Temp FL50, FL100, FL140, FL180, FL250, FL320 and FL360, SIGWX, Volcanic Ash/Tropical Cyclone Advisory, SIGMET, AIRMET, Aerodrome Warning, METAR Bulletin, TAFOR Bulletin, Radar and Satellite Pictures.
8	Supplementary equipment available for providing information	Self-Briefing Terminals (Internet)
9	ATS units provided with information	Penang Control Tower
10	Additional information	Tel : +604 - 6438302 / 6456194 Fax : +604 - 6449076 / 6804

WMKP AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designation RWY NR	TRUE and MAG BRG	Dimensions of RWY (M)	Strength (PCN) Surface of RWY and SWY	THR Coordinates	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
04	042 (T)	3352 x 46	PCN 105/F/B/X/U Flexible Paved	051709.42N 1001600.14E	3.05M (10FT)
22	222 (T)	3352 x 46	PCN 105/F/B/X/U Flexible Paved	051830.25N 1001713.36E	3.35M (11FT)

Slope of RWY - SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strips Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
0.009 %	Nil	Nil	3472 x 300	Nil	Nil
0.009 %	Nil	Nil	3472 x 300	Nil	Nil

WMKP AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)		TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2		3	4	5	6
	FROM	TORA				
04	THRESHOLD	3352	3352	3352	3352	Nil
	INTERSECTION B	2686				Nil
22	THRESHOLD	3352	3352	3352	3352	Nil
	INTERSECTION D	2283				Nil

WMKP AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH Lgt	THR Lgt	VASIS (MEST) PAPI	TDZ Lgt	RWY Centre Line Lgt	RWY Edge Lgt	RWY End LGT WBAR	SWY Lgt	Remarks
1	2	3	4	5	6	7	8	9	10
04	Precision Approach Lighting System (Distance Coded)	Green	PAPI	Nil	Nil	High Intensity Variable Brilliance	Red	Nil	Nil
22	Simple Approach Lighting System	Green	PAPI	Nil	Nil	High Intensity Variable Brilliance	Red	Nil	Nil

WMKP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN / IBN location, characteristics and hours of operation	Nil
2	LDI location and LGT Anemometer location and LGT	Windsock Rwy 04 : 305 M fm Thr and 130 M fm Rwy centreline (left side). Lgtd at night. Windsock Rwy 22: 351 M fm Thr and 100 M fm Rwy centreline (left side). Lgtd at night.
3	TWY edge and centre line lighting	TWY Edge at intersection only - Blue. TWY Centreline - Green.
4	Secondary power supply / switch-over time	Automatic standby generator and power available for airfield lighting.
5	Remarks	Nil

WMKP AD 2.16 HELICOPTER LANDING AREA

NIL

WMKP AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	Butterworth CTR Semi-circle of 15 NM radius centred on VBT (052834.7N 1002337.3E) from 0536.9N 10011.3E clockwise to 0519.8N 10036.0E thence a straight line to 0508.3N 10028.0E thence a semi-circle of 15 NM radius centred VPG (0516.8N 10015.7E) clockwise to 0525.3N 10003.4E thence a straight line to 0536.9N 10011.3E.
2	Vertical limits	SFC to 5500 FT AMSL
3	Airspace classification	Class C
4	ATS unit callsign Language(s)	Butterworth Approach, Penang Tower, Penang Ground. English.
5	Transition altitude	11,000 FT AMSL.
6	Remarks	Nil

WMKP AD 2.18 ATS COMMUNICATION FACILITIES

Service Designation	ID	Frequency	Hours of operation	Remarks
1	2	3	4	5
SMC	PENANG GROUND	121.6 MHZ 121.9 MHZ	H24	121.6 MHZ -For acft use. 121.9 MHZ - for vehicles use.
TWR	PENANG TOWER	121.1MHZ		-
ATIS	PENANG INFORMATION	126.4 MHZ		-

WMKP AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type and aid	ID	Frequency	Hours of operation	Coordinates	DME Elevataion	Remarks
1	2	3	4	5	6	7
ILS/LLZ	IPG	109.9 MHZ	H24	051840.7N 1001725.4E	-	Alignment 042° / 222°
GP/DME	-	333.8 MHZ CH 36X		051716.7N 1001613.4E	-	G/P 3°. DME located at G/P.
L / NDB	PNG	406 KHZ		051934.7N 1001807.4E	-	042° MAG / 1.42 NM to THR RWY 22. 65W.
DVOR/DME	VPG	116.2 MHZ CH 109X		051646.7N 1001537.4E	-	222° MAG / 0.53 NM to THR RWY 04.

WMKP AD 2.20 LOCAL TRAFFIC REGULATIONS**1. Local Flying Restrictions**

- a) Right hand circuit Runway 04
Left hand circuit Runway 22
- b) Circuit height
 - light acft 1000 FT within 5 NM radius of the ARP.
 - other acft 1500 FT within 7 NM radius of the ARP.
- c) Circling prohibited in sector 250° - 020° due to high terrain.

WMKP AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

WMKP AD 2.22 FLIGHT PROCEDURES

1 DME Arrival Procedures For Penang International Airport.

RADIAL/TRACK	NAVAID	DME CHECK POINT	MNM IFR EN-ROUTE ALTITUDE	AFTER Passing DME/VPG DESCEND to FT on QNH			REMARKS
RDL 009 (ALFA 457)	VPG	Not Required	7000 FT	33 ↓ 5500	24 ↓ 4000		Make one of the following approaches as directed by ATC :- i) 10 DME ARC VPG or ii) 15 DME ARC VPG or iii) Over VPG, carry out Standard Instrument Approach Procedure
RDL 066 (BRAVO 219)	VPG	Not Required	FL 140	38 ↓ 7500	27 ↓ 4000		
RDL 130 (WHISKEY 530)	VPG	Not Required	7000 FT	25 ↓ 5100	12 ↓ 4500	8 ↓ 4000	
RDL 155 (ALFA 457)	VPG	Not Required	7000 FT	25 ↓ 5100	12 ↓ 4500	8 ↓ 4000	
RDL 224 (GOLF 468)	VPG	Not Required	9000 FT	17 ↓ 4000			
RDL 335 (WHISKEY 525)	VPG	Not Required	7000 FT	17 ↓ 4000			

WMKP AD 2.23 ADDITIONAL INFORMATION

1 List Of Way-points.

- 1.1 The following list contains the way-points related to SID, RNAV STAR and IAP procedures at Penang International Airport.

ID	REFERENCE FM VKG VOR/DME	LATITUDE(N)	LONGITUDE (E)	REMARKS
LUNTU	RDL 009/25D	05 41 35.9	100 19 20.1	
ISMAS	RDL 335/30D	05 43 59.0	100 02 36.8	
BIDMO	RDL 066/51D	05 36 59.6	101 02 28.4	
IKILO	RDL 130/35D	04 54 09.0	100 42 30.5	
MADUM	RDL 224/25D	04 58 08.7	099 58 14.0	
PUKAR	RDL 066/30D	05 28 42.9	100 43 14.2	
ENDOR	RDL 103/09D	05 14 40.9	100 24 28.2	
NURLA	RDL 155/30D	04 49 07.7	100 28 03.2	
MEKAT	RDL 197/12D	05 05 14.2	100 12 07.3	
OPOVI	RDL 246/12D	05 11 52.8	100 04 38.4	
TAMIT	RDL 288/08D	05 19 13.8	100 08 02.1	
REKUS	RDL 060/15D	05 24 17.7	100 28 39.6	Flyover
GOBAR	RDL 053/16D	05 26 24.6	100 28 28.1	
UPTOP	RDL 042/12D	05 25 43.0	100 23 43.3	
IDVAN	RDL 017/14D	05 30 11.7	100 19 45.3	
PAPDA	RDL 042/44D	05 49 29	100 45 13	

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