STANDARD DEPARTURE CHART INSTRUMENT (SID) - ICAO

POKAG 3A, POKAG 3B, RILPO 3A, RILPO 3B, SUNUN 3A, SUNUN 3B

VNUKOVO TOWER	118.300			
VNUKOVO RADAR	123.400	135.900		
DOMODEDOVO RADAR	119.400	125.300	129.800	
SHEREMETYEVO RADAR	118.100	122.700		
MOSCOW APPROACH	118.950	118.550	127.200	128.000
	130.375	124.200	131.200	127.700

PZ - 90.11 coordinates

RNAV 1

DME/DME or GNSS is required

MSAAT/MSHAT is computed for surface air temperature at the aerodrome -29°C.

HGT is given relative to RWY 06 THR ELEV 629'/192m.

POKAG 3A, RILPO 3A, SUNUN 3A are AVBL only for CAT A, B, C ACFT

If unable to comply with published restrictions, advise Vnukovo-Delivery.

MINIMUM CLIMB GRADIENTS (due to the airspace structure):
POKAG 3A, RILPO 3A, SUNUN 3A: 8.8% up to FL120;
POKAG 3B, RILPO 3B, SUNUN 3B: 5.7% up to 6000'/(1640).
MINIMUM CLIMB GRADIENT (required due to obstacles):
POKAG 3A, RILPO 3A, SUNUN 3A: 5.1% up to 1200'/(175).
WARNING:
Close-in obstacles:
- RWY 01: to the left and right of take-off heading at DIST 234-1487m from DER with MAX ELEV 665'/(10);
- RWY 06: to the right of take-off heading at DIST 676-708m from DER with MAX ELEV 746'/(40).

MSAAT/MSHAT 3800'/(1000) 46km from ARP

TRANSITION ALT: 10000'
TRANSITION HGT: (2900)

NOT TO SCALE

RILPO — 28 — 033° — OSGAK — 10 — 033° — GORNA FL170-FL180 IAS 500km/h/270KT — 37 — RILPO 3A, RILPO 3B — 034° — KOMNI FL160-FL170 IAS 500km/h/270KT — 17 — 012° — TAFAZ FL150-FL160 IAS 500km/h/270KT — 21 — 034° — TIRDE FL140-FL150 IAS 500km/h/270KT — 17 — 022° — DUFAR FL130-FL140 IAS 500km/h/270KT — 20 — 350° — NUZOR FL110-FL130 IAS 465km/h/250KT — 10 — 326° — GIGUN 10000'/(2860) or below IAS 465km/h/250KT — 11 — 327° — LIKNI 6500'/(1795) or above IAS 445km/h/240KT (POKAG 3A, RILPO 3A, SUNUN 3A) — POKAG 3A, RILPO 3A, SUNUN 3A — 15 — 303° — WW191 7000'/(1945) or below IAS 465km/h/250KT — 11 — 308° — WW014 6000'/(1640) or above IAS 445km/h/240KT — POKAG 3B, RILPO 3B, SUNUN 3B — 16 — 213° — WW019 3500'/(875) or above IAS 445km/h/240KT — 8 — 122° — WW063 MAX IAS 405km/h/220KT — 7 — 057° — 1100'(145) or above MAX IAS 350km/h/190KT — 251° — 14 — 310° — DEFAL FL130-FL140 IAS 500km/h/270KT — 25 — 311° — RIZNO FL140 or above IAS 500km/h/270KT — 25 — 275° — SUNUN 3A, SUNUN 3B — 18 — 233° — ITVIN FL150 or above IAS 500km/h/270KT — PUFIK FL130-FL140 IAS 500km/h/270KT — 60 — 245° — POKAG 3A, POKAG 3B — POKAG

VNUKOVO 113.7 WNK 55 35 18N 037 15 15E

SAVELOVO 111.8 SWO 56 22 04N 037 25 51E

KOSTINO 113.2 IKO 56 18 08N 037 42 41E

SHEREMETYEVO 114.35 MR 55 58 44N 037 19 41E

OPALIKHA 109.7 OPH 55 49 31N 037 16 14E

MOSCOW

2300' (510)

UUP406 1200m/4000' AMSL GND
UUP405 1200m/4000' AMSL GND
UUP64 FL105 GND
UUP429 600m/2000' AGL GND
UUP430 600m/2000' AGL GND
UUR320 2150m/7000' AMSL GND
UUP409 450m/1500' AMSL GND
UUP408 450m/1500' AMSL GND
UUR392 3650m/12000' AMSL GND
UUP418 300m/1000' AMSL GND
UUP447 500m/1700' AGL GND
UUP422 900m/3000' AMSL GND
UUR281 450m/1500' AMSL GND
UUR317 950m/3100' AMSL GND
UUP407 450m/1500' AGL GND
UUP424 450m/1500' AMSL GND
UUR276 8100m/26500' AMSL GND
UUP420 300m/1000' AMSL GND
UUP444 450m/1600' AMSL GND
UUP53 FL265 GND
UUR280 450m/1500' AMSL GND
UUP52 UNL GND
UUP417 450m/1500' AMSL GND
UUP410 450m/1500' AGL GND
UUP425 450m/1500' AMSL GND
400m/1300' AGL GND
1200m/3900' AGL GND
UUP96 350m/1200' AMSL GND
UUP95 250m/900' AMSL GND
UUP94 300m/1000' AMSL GND
UUP445 300m/1000' AMSL GND
UUP448 200m/700' AGL GND
UUP54 1200m/4000' AMSL GND
UUP78 450m/1500' AMSL GND
UUP404 450m/1500' AGL GND
UUP455 700m/2300' AMSL GND
UUR333 850m/2800' AMSL GND
UUP423 900m/3000' AMSL GND

SCALE 1 : 500 000

BEARINGS AND TRACKS ARE MAGNETIC
ALTITUDES IN FEET
HEIGHTS IN METRES
ELEVATIONS IN FEET AND METRES
DISTANCES IN KILOMETRES

Alt set: -QNH(QFE on req); -hPa(mm on req).

MOSCOW, RUSSIA VNUKOVO RNAV RWY 01, 06