



B777 Series

Dispatch Performance Manual

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Rev. No	Date Entered

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MONTREAL (CYUL)**PERFORMANCE RESTRICTIONS****RWY 06R****Runway Bearing Strength**

Published Bearing Strength is 296000KG (B777-300ER A/C). 777-200 NO RESTRICTION.

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES IN EMERGENCY OR WITH PRIOR PERMISSION.

RWY 24L**Runway Bearing Strength**

Published Bearing Strength is 296000KG (B777-300ER A/C). 777-200 NO RESTRICTION.

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES IN EMERGENCY OR WITH PRIOR PERMISSION.

CALGARY (CYYC)**PERFORMANCE RESTRICTIONS****Surrounding Terrain (All Runways)**

Beware terrain rising to 12000ft approx 30nm west of airfield.

RWY 11**Runway Bearing Strength**

Published Bearing Strength is 275000KG (B777-200ER A/C) and 281000KG (B777-300ER A/C).

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES IN EMERGENCY OR WITH PRIOR PERMISSION.

RWY 29**Runway Bearing Strength**

Published Bearing Strength is 275000KG (B777-200ER A/C) and 281000KG (B777-300ER A/C).

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES IN EMERGENCY OR WITH PRIOR PERMISSION.

TORONTO (CYYZ)**PERFORMANCE RESTRICTIONS****Noise Abatement (All Runways)**

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH.

RWY 23

Minimum Acceleration Height 1300ft

Start Point

Full length should only be used when planned take-off weight requires its use otherwise use intersection TWY H. If full length is required permission must be requested from ATC upon initial contact.

RWY 33R**Noise Abatement**

To achieve the required noise abatement profile adhere to SID tracks until passing 3600ft QNH. Do not make any unauthorised turns prior to MALTN.

ACCRA (DGAA)**EMERGENCY TURN PROCEDURES****RWY 03****KEMOK SIDs**

Engine Failure BEFORE AA300 - Climb on Rwy hdg to 700ft. Turn LEFT to APOPO (If above 700ft Turn LEFT immediately).Ctc ATC for return.

Engine Failure AFTER AA300 - No restrictions provided SID followed to MSA.

EREKA and MIMTI SIDs

No restrictions provided SID followed to MSA.

PERFORMANCE RESTRICTIONS**RWY 21****Full Length Take Off**

Tkof from full length requires backtrack. Intxn tkof for heavy aircraft not authorised except by permission from ATC.

ABUJA (DNAA)**PERFORMANCE RESTRICTIONS****RWY 04**

Min Acceleration Height 2100ft

EMERGENCY TURN PROCEDURES**RWY 04****LOTSO, IKSEM and IKVAD SIDs**

Engine Failure PRIOR to AA502. Follow SID to AA502 and TURN LEFT to 223M. Contact ATC for instructions

Engine Failure AFTER AA502. No restrictions provided SSA reached and SIDS followed.

RADAR DEPARTURES

Engine Failure PRIOR to VOR ABC - At VOR ABC TURN LEFT to 219M until SSA reached. Contact ATC for instructions.

Engine Failure AFTER VOR ABC but BEFORE 3000FT QNH - Continue on RWY Heading to VOR ABC 4D before turning to track 012M until SSA achieved. Contact ATC for instructions.

Engine Failure AFTER 3000FT QNH - No Restrictions provided SSA achieved.

RWY 22**ALL SIDs**

Engine Failure BELOW 3000ft or BEFORE turning off rwy hdg (whichever earlier) - continue on rwy hdg to ABC 10d. Turn right hdg 270M. Climb to MSA.

Engine Failure ABOVE 3000ft or AFTER turning off rwy hdg (whichever earlier) - no restrictions provided SIDs followed to MSA.

Note. Ensure terrain clearance is achieved before accepting radar vectors that contradict published SID and/or ETP guidance.

LAGOS MURTLA MUHAMMED (DNMM)**PERFORMANCE RESTRICTIONS****RWY 18R****Heavy Rain**

DURING PERIODS OF HEAVY RAIN RUNWAY MAY BE SUBJECT TO SLOW DRAINAGE WHICH COULD RESULT IN STANDING WATER. CONSIDER USE OF APPROPRIATE PERFORMANCE DATA CORRECTIONS FOR TAKEOFF.

RWY 36L**Heavy Rain**

DURING PERIODS OF HEAVY RAIN RUNWAY MAY BE SUBJECT TO SLOW DRAINAGE WHICH COULD RESULT IN STANDING WATER. CONSIDER USE OF APPROPRIATE PERFORMANCE DATA CORRECTIONS FOR TAKEOFF.

CARDIFF (EGFF)**PERFORMANCE RESTRICTIONS****RWY 12 and 30****Runway Surface**

Braking action at intxn of Rwy 12/30 and Twy G/E (old cross rwy) liable to be degraded when wet.

Runway Bearing Strength

RWY12 PUBLISHED BEARING STRENGTH IS 300000KG (777- 300ER A/C). 777-200 A/C NO RESTRICTION.

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES EXCEPT IN EMERGENCY OR WITH PRIOR PERMISSION.

LONDON GATWICK (EGKK)

PERFORMANCE RESTRICTIONS

RWY 08L and 26R

RW08L/26R Availability

This runway is promulgated as an emergency runway available only when the main runway (RWY 08R/26L) is closed.

RWY 26L

FULL LENGTH

Full Length (M1 HOLD) (TOR 3255m) should only be used when planned takeoff weight requires its use. Otherwise use A1 HOLD (TOR 3142m).

CAPE TOWN (FACT)

PERFORMANCE RESTRICTIONS

All Runways

IMSOM KODES TETAN and OKTED RNAV RNP SIDs Not Approved

IF ONE RVR U/S T/O MIN BECOMES NIL/350M.

IF RCL INOP T/O MIN BECOMES NIL/500M.

RWY 19

TETAN 1A and OKTED 1B SIDs

ALL ENGINES – TETAN 1A and OKTED 1B **NOT AUTHORISED** weights greater than 285000kg as climb gradient cannot be achieved and radar coverage not assured. Use TETAN 1B or OKTED 1C instead.

EMERGENCY TURN PROCEDURES

RWY 01

KODES and IMSOM conventional SIDs

No restrictions provided SID followed and SSA achieved TETAN and OKTED conventional SIDs

Eng failure BEFORE RIV - continue on SID to RIV 22d. Turn RIGHT to CTV for return. Contact ATC for instruction.

Eng failure AFTER RIV 22d - no restrictions provided SSA achieved.

RWY 19

TETAN 1B and OKTED 1C SIDs

Engine failure BEFORE CTV 20d - continue STRAIGHT AHEAD and request ATC instruction

Engine failure AFTER CTV 20d - no restrictions provided SID is followed and SSA achieved.

TETAN 1A and OKTED 1B SIDs

Engine failure BEFORE CTV 5d - continue STRAIGHT AHEAD and request ATC instruction.

Engine failure AFTER CTV 5d but BEFORE CTV 18d - turn RIGHT to CTV. Request ATC instruction.

Engine failure AFTER CTV 18d - no restrictions provided SID is followed and SSA achieved.

KODES and INSOM conventional SIDs

Eng failure BEFORE 5500ft - continue on SID to intercept CTV 210R. Contact ATC for instructions

Engine failure AFTER 5500ft - no restrictions provided SID is followed and SSA achieved.

JOHANNESBURG O.R.TAMBO (FAOR)**PERFORMANCE RESTRICTIONS****All Runways**

IF ONE RVR INOP T/O MIN BECOMES NIL/350M. IF RCL INOP T/O MIN BECOMES NIL/500M.

RWY 03R and 21L**Runway Bearing Strength**

RWY03R PUBLISHED BEARING STRENGTH IS 300000KG (777-300ER A/C). 777-200 A/C NO RESTRICTION.

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES EXCEPT IN EMERGENCY OR WITH PRIOR PERMISSION.

MAURITIUS (FIMP)**PERFORMANCE RESTRICTIONS****RWY 32****Min Acceleration Height**

MIN ACCEL ALT/HT – ALL ENGINES AND ENGINE OUT 1783FT QNH (1600FT HAA)

ALL ENGINES – Follow SIDs as Published

EMERGENCY TURN PROCEDURES**RWY 32****GERUS, RASMA, NIBIS, OKMAR, UTIVA, UDMED, TAPER, DUDIB, GUTKO, ARIGO, OVTIS, IXABI, SOBAT, IBSIS and ETGOT SIDs**

ENGINE FAILURE BEFORE 583FT QNH (400FT HAA) - CLIMB AHEAD TO 583FT QNH (400FT HAA) THEN IMMEDIATE CLIMBING LEFT TURN TO ESROL.

ENGINE FAILURE AFTER 583FT QNH (400FT HAA) BUT BEFORE 4000FT QNH - IMMEDIATE CLIMBING LEFT TURN TO ESROL.

ENGINE FAILURE AFTER 4000FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

ESROL, KINIX and ATLOP SIDs

ENGINE FAILURE BEFORE 600FT QNH - CLIMB AHEAD TO 600FT QNH THEN IMMEDIATE CLIMBING LEFT TURN TO ESROL.

ENGINE FAILURE AFTER 600FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED ACCURATELY TO ESROL AND SSA ACHIEVED.

CAIRO INTL (HECA)**PERFORMANCE RESTRICTIONS****RWY 23R****Min Acceleration Height 1200ft**

NAIROBI JOMO KENYATTA (HKJK)

PERFORMANCE RESTRICTIONS

All Runways

Take Off Flap Settings

ALL RESTRICTIONS ARE BASED ON FLAP 5 DEPARTURES ONLY

EXCEPT 777-200 TRENT 895 A/C WHERE FLP 15 OR 20 MAYBE USED WITH WEIGHTS UP TO 240000KG.

EMERGENCY TURN PROCEDURES

RWY 06

KAMAS 1W SID

ENGINE FAILURE BEFORE 8000FT QNH - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD.

ENGINE FAILURE AFTER 8000FT QNH AND BEFORE TURNING ONTO 324M - TURN RIGHT TO STONY FOR HOLD.

ENGINE FAILURE AFTER TURNING ONTO 324M - CONTINUE ON SID PROVIDED HEIGHT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV 45D TURN RIGHT TO STONY FOR HOLD.

KAMAS 1Z SID

ENGINE FAILURE BEFORE NV013 - CONTINUE AHEAD TO NV013 AND THEN TURN RIGHT TO STONY FOR HOLD.

ENGINE FAILURE AFTER NV013 AND BEFORE NV025 - TURN RIGHT TO STONY FOR HOLD.

ENGINE FAILURE AFTER NV025 - CONTINUE ON SID PROVIDED HEIGHT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV45 TURN RIGHT TO STONY FOR HOLD.

NAK2Z SID

ENGINE FAILURE BEFORE NAK82 - TURN ON SHORTEST ROUTE TO STONY FOR HOLD.

ENGINE FAILURE AFTER NAK82 - CONTINUE ON SID PROVIDED HEIGHT RESTRICTIONS AND SSA ACHIEVED.

NAK1Y SID

ALL ENGS - AFTER INITIAL LEFT TURN AT 10000FT INTERCEPT NV 323R AT NV 40D OR LESS TO AVOID HIGH TERRAIN TO THE NORTH.

ENG FAILURE BEFORE 8000FT - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD.

ENG FAILURE AFTER 8000FT - CONTINUE ON SID PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NAKAT 1Z SID

ENGINE FAILURE BEFORE 8000FT QNH - CONTINUE ON SID TO NV 11D THEN TURN RIGHT TO STONY FOR HOLD.

ENGINE FAILURE AFTER 8000FT QNH - NO RESTRICTIONS PROVIDED HEIGHT RESTRICTIONS AND SSA ACHIEVED.

GABSO 1Z/1Y SIDs

SID RESTRICTED TO 245000KG TRENT AND 777- 300ER A/C NO WT RESTRICTION.

NO RESTRICTIONS PROVIDED HEIGHT RESTRICTIONS AND SSA ACHIEVED.

EVATO 1X SID

NO RESTRICTIONS PROVIDED HEIGHT RESTRICTIONS AND SSA ACHIEVED.

ANTUK 1D to NATAK SID

ENG FAILURE BEFORE 8000FT QNH - TURN ON SHORTEST ROUTE TO STONY FOR HOLD.

ENG FAILURE AFTER 8000FT QNH - CONTINUE ON SID PROVIDED HEIGHT RESTRICTIONS AND SSA ACHIEVED.

ALL OTHER SIDs NOT APPROVED FOR BAV AIRCRAFT**RWY 24****KAMAS 1V SID**

ENGINE FAILURE BEFORE NV - CONTINUE ON SID AND HOLD AT NV.

ENGINE FAILURE AFTER NV AND BEFORE TURNING ONTO 324M - TURN RIGHT TO STONY FOR HOLD.

ENGINE FAILURE AFTER TURNING ONTO 324M - CONTINUE ON SID PROVIDED HEIGHT RESTRICTIONS AND SSA ACHIEVED. IF 15000FT NOT ACHIEVED BY NV 45D TURN RIGHT TO STONY FOR HOLD.

GABSO 1U, EVATO 1U and NAKAT 1U SIDs

NO RESTRICTIONS PROVIDED HEIGHT RESTRICTIONS AND SSA ACHIEVED.

ALL OTHER SIDs NOT APPROVED FOR BAV AIRCRAFT.

BOSTON (KBOS)**PERFORMANCE RESTRICTIONS****RWY 33L****Take Off Position**

Take-off starts from where taxiway C joins the runway.

DENVER INTL (KDEN)**PERFORMANCE RESTRICTIONS****RWY 07****SIDs Approved**

PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT Approved

DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 08**SIDs Approved**

BRYCC / EEONS / EMMYS / EPKEE / EXTAN / JMPRS / RIKKK / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / YOKES / YAMMI / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT Approved

BAYLR / CONNR / COORZ / FOOT / SPAZZ (ZAPAA TRANSITION) / SOLAR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 16L**SIDs Approved**

EEONS / EMMYS / EPKEE / EXTAN / JMPRS / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT Approved

BAYLR / BRYCC / CONNR / COORZ / FOOT / RIKKK / SPAZZ (ZAPAA TRANSITION) / SOLAR / YAMMI / YOKES / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 16R**SIDs Approved**

EEONS / EMMYS / EPKEE / EXTAN / JMPRS / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE

SIDs NOT Approved

BAYLR / BRYCC / CONNR / COORZ / FOOT / RIKKK / SPAZZ (ZAPAA TRANSITION) / SOLAR / YAMMI / YOKES / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 17L**SIDs Approved**

BRYCC / EEONS / EMMYS / EPKEE / EXTAN / JMPRS / RIKKK / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / YOKES / YAMMI / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT Approved

BAYLR / CONNR / COORZ / FOOT / SPAZZ (ZAPAA TRANSITION) / SOLAR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 17R**SIDs Approved**

BRYCC / EEONS / EMMYS / EPKEE / EXTAN / JMPRS / RIKKK / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / YOKES / YAMMI / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT Approved

BAYLR / CONNR / COORZ / FOOOT / SPAZZ (ZAPAA TRANSITION) / SOLAR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 25**SIDs Approved**

EEONS / EMMYS / EPKEE / EXTAN / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT Approved

BAYLR / BRYCC / CONNR / COORZ / FOOOT / JMPRS / RIKKK / SPAZZ / SOLAR / STAKR / YAMMI / YOKES / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 26**SIDs Approved**

PLAINS / YELLOWSTONE.

SIDs NOT Approved

DEN / PIKE (PUEBLO TRANSITION) / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 34L**SIDs Approved**

BRYCC / EEONS / EMMYS / EPKEE / EXTAN / RIKKK / YAMMI / YOKES / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT Approved

BAYLR / CONNR / COORZ / FOOOT / JMPRS / SPAZZ / SOLAR / STAKR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 34R**SIDs Approved**

BRYCC / EEONS / EMMYS / EPKEE / EXTAN / RIKKK / YAMMI / YOKES / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT Approved

BAYLR / CONNR / COORZ / FOOOT / JMPRS / SPAZZ / SOLAR / STAKR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 35L**SIDs Approved**

BRYCC / EEONS / EMMYS / EPKEE / EXTAN / JMPRS / RIKKK / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / YOKES / YAMMI / PIKE (PUEBLO TRANSITION) / PLAINS / YELLOWSTONE.

SIDs NOT Approved

BAYLR / CONNR / COORZ / FOOOT / SPAZZ (ZAPAA TRANSITION) / SOLAR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

RWY 35R**SIDs Approved**

BRYCC / EEONS / EMMYS / EPKEE / EXTAN / JMPRS / RIKKK / SPAZZ (TOBE and JOPLN TRANSITION) / STAKR / YOKES / YAMMI / PIKE (PUEBLO TRANSITION) / PLAINS. / YELLOWSTONE

SIDs NOT Approved

BAYLR / CONNR / COORZ / FOOOT / SPAZZ (ZAPAA TRANSITION) / SOLAR / DEN / PIKE (BINKE and ALAMOSA TRANSITION) / ROCKIES.

LAS VEGAS (KLAS)

PERFORMANCE RESTRICTIONS

All Runways

HOOVER/LAS VEGAS/MCCARRAN SIDs

Radar vector SIDs so terrain clearance is not assessed. Ensure SSAS can be achieved before accepting radar headings.

RWY 19L

Min Acceleration Height 1800ft

EMERGENCY TURN PROCEDURES

RWY 01L and 01R

COWBY and TRALR SIDs

ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO NAPSE BEFORE TURNING RIGHT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH and SHEAD SIDs

ENGINE FAILURE BEFORE BESSY - CONTINUE ON SID TO BESSY THEN DIRECT TO ROPPR BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER BESSY BUT BEFORE 8000FT - TURN IMMEDIATELY LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

RWY 19L and 19R

COWBY, TRALR and PRFUM SIDs

ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO HITME (COWBY/PRFUM) OR FORGE (TRALR) BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH and SHEAD SIDs

ENGINE FAILURE BEFORE ROPPR - CONTINUE ON SID TO ROPPR BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER ROPPR BUT BEFORE 8000FT - TURN IMMEDIATELY LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

RWY 25L and 25R**STAAV SID**

ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO STAAV BEFORE TURNING RIGHT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

COWBY, TRALR and PRFUM SIDs

ENGINE FAILURE BEFORE 8000FT - CONTINUE ON SID TO HITME (COWBY/PRFUM) OR FORGE (TRALR) BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BOACH and SHEAD SIDs

ENGINE FAILURE BEFORE ROPPR - CONTINUE ON SID TO ROPPR BEFORE TURNING LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER ROPPR BUT BEFORE 8000FT - TURN IMMEDIATELY LEFT TO BLD FOR HOLD. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 8000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

LOS ANGELES INTL (KLAX)

PERFORMANCE RESTRICTIONS

RWY 24L

Noise Abatement – North SIDs – ALL ENGINES

VENTURA SID AT HEAVY WTS THIS SID IS PREFERENTIAL FOR NOISE ABATEMENT AND TERRAIN CLEARANCE.

LOOP SID REQUIRED CLIMB GRADIENT TO 10000FT AND GABRE SID REQUIRED CLIMB GRADIENT TO 12000FT CANNOT BE MET AT WTS REQD FOR LHR SECTORS. PLEASE ADVISE ATC OF CLIMB GRADIENT LIMITATION AND REQUEST SEBBY SID INSTEAD.

Noise Abatement – South SIDs – ALL ENGINES

SOUTHERLY SIDS - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

EMERGENCY TURN PROCEDURES

RWY 06L, 06R, 07L and 07R

CHATY, GORMAN and LAXX SIDs

ENGINE FAILURE BEFORE 5000FT - TURN RIGHT TO HDG 250M AND CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

GABRE SID

ENGINE FAILURE BEFORE 7000FT - TURN RIGHT TO HDG 250M AND CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 7000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

CATALINA, IMPER, PERCH, SAN DIEGO, SEAL BEACH and VENTURA SIDS

NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

NOTE SOME OF THESE SIDS USE RADAR VECTORS - THESE HAVE NOT BEEN ANALYSED AS NO ROUTE PUBLISHED. ENSURE TERRAIN CAN BE CLEARED BEFORE ACCEPTING ANY VECTORS TO THE NORTH AND EAST OF THE AIRFIELD.

RWY 24L, 24R, 25L and 25R

CASTA, FIXIT, MUELR and GORMAN SIDs

CLIMB AHEAD FOR 8NM OR UNTIL IT IS KNOWN THE COAST CAN BE CROSSED HEADING NORTH AT 5000FT QNH OR ABOVE AND SSA ACHIEVED.

Northerly Departures

NORTHERLY DEPARTURES ENGINE FAILURE BEFORE 5000FT - TURN ONTO HEADING NOT GREATER THAN 270M. ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE HIGH GROUND/SSA TO THE NORTH/NORTH EAST AND NORTH WEST.

Southerly SIDs

NO RESTRICTIONS PROVIDED HT RESTRICTIONS AND SSA ACHIEVED.

NOTE SOME OF THESE SIDS USE RADAR VECTORS - THESE HAVE NOT BEEN ANALYSED AS NO ROUTE PUBLISHED. ENSURE TERRAIN CAN BE CLEARED BEFORE ACCEPTING ANY VECTORS TO THE NORTH AND EAST OF THE AIRFIELD.

MIAMI (KMIA)**PERFORMANCE RESTRICTIONS****RWY 09****Min Acceleration Height 1100ft**

CHICAGO O HARE INTL (KORD)**PERFORMANCE RESTRICTIONS****RWY 27L and 27R****Min Acceleration Height 1100ft**

PHOENIX SKY HARBOR (KPHX)

EMERGENCY TURN PROCEDURES

RWY 07L, 08

BXK, CHILY, MAXXO, MOBIE, SJN and TFD SIDs

Engine Failure BEFORE PXR 4d - Follow SID to PXR 4d. Direct IWA. Hold at IWA.

Engine Failure AFTER PXR 4d and BELOW MSA - Direct IWA. Hold at IWA.

Engine Failure ABOVE MSA - No restrictions.

BNYRD, FTHLS, KATMN, LALUZ, MAYSA, SNOBL and YOTES SIDs

Engine Failure BEFORE SPRKY - Follow SID to SPRKY. Direct IWA. Hold at IWA.

Engine Failure AFTER SPRKY and BELOW MSA - Direct IWA. Hold at IWA.

Engine Failure ABOVE MSA - No restrictions.

IZZZO and JUDTH SIDs

Engine Failure BEFORE FUTEP - Follow SID to FUTEP. Direct IWA. Hold at IWA.

Engine Failure AFTER FUTEP and BELOW MSA - Direct IWA. Hold at IWA.

Engine Failure ABOVE MSA - No restrictions.

RWY 25R and 26

BXK, CHILY, MAXXO, MOBIE, SILOW, SJN and TFD SIDs

Engine Failure BEFORE PXR 9d - Follow SID to PXR 9d. Turn left hdg 180. Intercept PXR 12d ARC to EAST. Track PXR 12d ARC until crossing PXR R180. Direct IWA. Hold at IWA.

Engine Failure AFTER PXR 9d and BELOW MSA - Direct IWA. Hold at IWA.

Engine Failure ABOVE MSA - No restrictions.

BNYRD FTHLS KATMN and JUDTH SIDs

Engine Failure BEFORE VANZZ - Follow SID to VANZZ. Direct BUNEE. Direct IWA. Hold at IWA.

Engine Failure AFTER VANZZ and BELOW MSA - Direct IWA. Hold at IWA.

Engine Failure ABOVE MSA - No restrictions.

LALUZ SNOBL and YOTES SIDs

Engine Failure BEFORE ZILUB - Follow SID to ZILUB. Direct IWA. Hold at IWA.

Engine Failure AFTER ZILUB and BELOW MSA - Direct IWA. Hold at IWA.

Engine Failure ABOVE MSA - No restrictions.

MAYSA SID

Engine Failure BEFORE TWSND - Follow SID to TWSND. Direct ZILUB. 2nm prior ZILUB turn direct IWA. Hold at IWA.

Engine Failure AFTER TWSND and BELOW MSA – Direct IWA. Hold at IWA.

Engine Failure ABOVE MSA - No restrictions.

IZZZO SID

No restrictions. Ensure MSA achieved before continuing past IZZZO.

SAN DIEGO LINDBERGH (KSAN)

EMERGENCY TURN PROCEDURES

RWY 09

BORDER SID

ENG FAILURE BEFORE 5000FT QNH - TURN RIGHT TO VOR PGY. AT PGY TURN RIGHT TO TRACK 258M AND CONTACT ATC FOR INSTRUCTIONS.

ENG FAILURE AFTER 5000FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

LNSAY SID

ENGINE FAILURE BEFORE 4000FT QNH - TURN RIGHT TO VOR PGY. AT PGY TURN RIGHT TO TRACK 258M AND CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 4000FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

RWY 27

LNSAY and PEBLE SIDs

NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

BORDER and POGGI SIDs

ENGINE FAILURE BEFORE PGY 19D/JETTI - CONTINUE ON DEPARTURE HEADING AND CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER PGY 19D/JETTI BUT BEFORE 5000FT QNH - TURN TO TRACK 168M AND CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 5000FT QNH - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

SEATTLE TACOMA (KSEA)

EMERGENCY TURN PROCEDURES

RWY 16C, 16L and 16R

MOUNTAIN, SEATTLE SIDs

Engine failure before initial turn - Continue on SEA 161R until SEA 10D. Turn right to SEA. Intercept SEA 320R. Climb to SSA.

Engine failure after initial turn - Ensure SSA can be achieved on vectored route before continuing.

SUMMA SID

Engine failure below 5000ft - Continue on SEA 161R to SEA 10D. Turn right to SEA. Intercept SEA 320R. Climb to SSA.

Engine failure above 5000ft - No restrictions provided SID followed and SSA achieved.

BANGR SID

Engine failure below 8000ft - Continue on SID to TOMRE. Turn right to SEA. Intercept SEA 320R. Climb to SSA.

Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

ELMAA and HAROB SID

No restrictions.

RWY 34C, 34L and 34R

MOUNTAIN, SEATTLE SIDs

Engine failure before initial turn - Continue on SEA 341R until SEA 10D. Turn left hdg 290M. Intercept SEA 320R. Climb to SSA.

Engine failure after initial turn - Ensure SSA can be achieved on vectored route before continuing.

SUMMA SID

Engine failure below 5000ft - Continue on SEA 341R to SEA 10D. Turn left hdg 290M. Intercept SEA 320R. Climb to SSA.

Engine failure above 5000ft - No restrictions provided SID followed and SSA achieved.

BANGR SID

Engine failure below 8000ft - Continue on SID to BREMM. Turn right hdg 340M. Intercept SEA 320R. Climb to SSA.

Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

KTSAP and KMORE SIDs

Engine failure below 8000ft - Continue on SID to CENEX. Turn right hdg 340M. Intercept SEA 320R. Climb to SSA.

Engine failure above 8000ft - No restrictions provided SID followed and SSA achieved.

HAROB SID

No restrictions.

SAN FRANCISCO INTL (KSFO)

PERFORMANCE RESTRICTIONS

RWY 01L and 01R

SAN FRANCISCO and TRUKN SIDs

SAN FRANCISCO and TRUKN SIDs To achieve 3000FT height requirement ALL ENGINES at SFO 6D or TYDYE.

ACCEL HT - 3000FT. EO ACCEL HT - 1000FT. THR RED HT - 3000FT.

SIDs NOT APPROVED

GAP and SSTITK SIDs NOT APPROVED.

RWY 01R ONLY

Take Off Point

Max Taxi Thrust should not be exceeded until reaching the Take-Off point.

RWY 10L and 10R

SIDs NOT APPROVED

GAP and MOLEN SIDs NOT APPROVED.

RWY 19L and 19R

ALL ENGINES/ENGINE OUT MIN ACCEL ALT 1413ft QNH (1400ft HAA).

SIDs NOT APPROVED

LUVVE, GAP and MOLEN SIDs NOT APPROVED.

ALL ENGINES PROCEDURE REMAINING SIDs TURN LEFT at 510ft QNH due to rising terrain south of airfield.

ENGINE FAILURE Turn LEFT at 510ft QNH/SFO 2d (whichever earlier) and follow SID.

RWY 28L and 28R

ALL ENGINES/ENGINE OUT MIN ACCEL ALT 1513FT QNH (1500FT HAA).

SIDs NOT APPROVED

QUIET, GAP, SHORELINE, RNAV GNNRR, NIITE RNAV, TRUKN and RNAV WESLA SIDs NOT APPROVED.

EMERGENCY TURN PROCEDURES

RWY 01L and 01R

SAN FRANCISCO and TRUKN SIDs

Engine Failure BEFORE SFO 6D - Turn LEFT on to SFO 342R.

Engine Failure AFTER SFO 6D - no restrictions provided SSA achieved.

EUGEN, OFFSHORE and PORTE SIDs

Engine Failure BEFORE 1600ft QNH/SFO 4D-AHEAD on SFO 350R using standard Accel Alt.

REBAS and QUIET SIDs

Engine failure BEFORE REBAS - continue on SFO 342R and request instructions. Engine failure

AFTER REBAS - no restrictions provided SSA achieved.

RNAV NIITE SID

Engine Failure BEFORE REBAS - Continue AHEAD on SFO 348R and request instructions.

Engine Failure AFTER REBAS - No restrictions provided SSA achieved.

RNAV TRUKN SID

Engine Failure BEFORE TRUKN - Continue on SID to TRUKN and request instructions.

Engine Failure AFTER TRUKN - No restrictions provided SSA achieved.

RWY 10L and 10R**DUMBARTON SID**

Eng fail BEFORE BARTN - at BARTN turn LEFT to VOR DME SFO and request instructions.

Eng fail AFTER BARTN - No restrictions provided SSA achieved. PORTE SID

Eng fail BEFORE turn on to OAK 135R - turn LEFT to VOR DME SFO and request instructions.

Eng fail AFTER turn on to OAK 135R - no restrictions provided SSA achieved.

RNAV CIITY SID

Eng Fail before CIITY - At CIITY turn LEFT to VOR DME SFO and request instructions.

Eng Fail after CIITY - No restrictions provided SSA achieved.

RNAV FOGGG SID

Eng Fail before FOGGG - At FOGGG turn LEFT to VOR DME SFO and request instructions.

Eng Fail after FOGGG - No restrictions provided SSA achieved.

RNAV SAHEY SID

Engine Failure BEFORE SAHEY - At SAHEY turn LEFT to VOR DME SFO and request instructions.

Engine Failure AFTER SAHEY - No restrictions provided SSA achieved.

RWY 19L and 19R**DUMBARTON SID**

Eng fail BEFORE BARTN - at BARTN turn LEFT to VOR DME SFO and request instructions.

Eng fail AFTER BARTN - no restrictions provided SSA achieved.

PORTE SID

Eng fail BEFORE TURN on to OAK 135R - Turn LEFT to VOR DME SFO and request instructions.

Eng fail AFTER turn on to OAK 135R - no restrictions provided SSA achieved.

RNAV CIITY SID

Eng Fail before CIITY - At CIITY turn LEFT to VOR DME SFO and request instructions.

Eng Fail after CIITY - No restrictions provided SSA achieved

RNAV FOGGG SID

Eng Fail before FOGGG - At FOGGG turn LEFT to VOR DME SFO and request instructions

Eng Fail after FOGGG - No restrictions provided SSA achieved.

RNAV SAHEY SID

Engine Failure BEFORE SAHEY - At SAHEY turn LEFT to VOR DME SFO and request instructions.

Engine Failure AFTER SAHEY - No restrictions provided SSA achieved.

RWY 28L and 28R**EUGEN, OFFSHORE, PORTE, MOLEN and SAN FRANCISCO SIDs**

Eng fail BEFORE SFO 6d - continue ahead on SFO 281R and request instructions.

Eng fail AFTER SFO 6d - No restrictions provided SSA achieved.

REBAS SID

Engine failure BEFORE REBAS - continue on SFO 342R and request instructions.

Engine failure AFTER REBAS - no restrictions provided SSA achieved.

RNAV SNTNA SID

Eng Fail before KYNNG - Continue ahead on SFO 284R and request instructions.

Eng fail AFTER KYNNG - No restrictions provided SSA achieved.

TAMPA (KTPA)**PERFORMANCE RESTRICTIONS****RWY 01L**

F/L (Twy W1) data can be used from both taxi lines on Twy W1.

RWY 19R

F/L (Twy W8) data can be used from both taxi lines on Twy W8.

TEL AVIV (LLBG)**PERFORMANCE RESTRICTIONS****RWY 08**

Min Acceleration Height 1200ft

All Runways**Noise Abatement**

Comply with noise abatement procedures as detailed in charting in accordance with FCOM operational policy.

EMERGENCY TURN PROCEDURES**RWY 08****SALAM, TOMAL, ESTER and BIRIM SIDs**

Engine failure BEFORE BGN 10d on SID track - turn RIGHT onto heading 290M and contact ATC for instructions.

Engine failure AFTER BGN 10d - no restrictions provided MSA achieved.

OVRIM PURLA and MERVA SIDs

No restrictions provided that SIDs followed to MSA.

RWY 12**SALAM, TOMAL, ESTER and BIRIM SIDs**

Engine failure BEFORE BGN 10d on SID track - turn RIGHT onto heading 290M and contact ATC for instructions.

Engine failure AFTER BGN 10d - no restrictions provided MSA achieved.

NATANIA, PURLA and SOLIN SIDs

No restrictions provided that SIDs followed to MSA.

RWY 26**SALAM, TOMAL, ESTER and BIRIM SIDs**

Engine failure BEFORE BGN 10d on SID track - turn RIGHT onto heading 290M and contact ATC for instructions.

Engine failure AFTER BGN 10d - no restrictions provided MSA achieved.

LORIM SIDs

Engine failure BEFORE BGN 10d on SID track - turn RIGHT onto heading 270M and contact ATC for instructions.

Engine failure AFTER BGN 10d - no restrictions provided MSA achieved.

OVRIM, PURLA, MERVA and SOLIN SIDs

No restrictions provided that SIDs followed to MSA.

RWY 30**SALAM, TOMAL, ESTER and BIRIM SIDs**

Engine failure BEFORE BGN 10d on SID track - turn RIGHT onto heading 290M and contact ATC for instructions.

Engine failure AFTER BGN 10d - no restrictions provided MSA achieved.

LORIM SIDs

Engine failure BEFORE BGN 10d on SID track - turn RIGHT onto heading 270M and contact ATC for instructions.

Engine failure AFTER BGN 10d- no restrictions provided MSA achieved.

PURLA and NATANIA SIDs

No restrictions provided that SIDs followed to MSA.

PROVINDENCIALES (MBPV)

PERFORMANCE RESTRICTIONS

All Runways

Wildlife

CAUTION wild dogs on RWY.

CAUTION Flocks of birds near RWY

Turning D at RWY THR

Turning D at RWY THR 60MX60M.

Parachuting

Parachuting in Grace Bay – Restricted Area MB/R002:1NM RADIUS VERTICAL LIMIT 13000FT

PUNTA CANA INTL (MDPC)**EMERGENCY TURN PROCEDURES****RWY 08 and 09****BEREL SID**

ENGINE FAILURE BEFORE 3000FT - CONTINUE ON RWY HDG. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 3000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

KATOK, OBITA, MELLA, POBEP, KATKO, PIXAR, BETIR SIDs

No Restrictions.

RWY 26 and 27**BEREL SID**

ENGINE FAILURE BEFORE 3000FT - CONTINUE ON RWY HDG TO 3000FT BEFORE TURNING LEFT TO PNA FOR HOLD OR RETURN. CONTACT ATC FOR INSTRUCTIONS

ENGINE FAILURE AFTER 3000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

KATOK, OBITA, MELLA, POBEP, KATKO, PIXAR, BETIR SIDs

No Restrictions.

KINGSTON (MKJP)**EMERGENCY TURN PROCEDURES****RWY 12****ALKOL, MANLEY, SAVEM and RADOK SIDs**

ENGINE FAILURE BEFORE TURN - CLIMB AHEAD TO MLY 7D THEN RIGHT TURN ONTO HDG 182M CLIMBING TO SUFFICIENT ALTITUDE BEFORE RETURNING TO GUDIL TO HOLD. (MIN HOLD ALT 4000FT QNH).

ENGINE FAILURE AFTER TURN - CONTINUE ON SID TO MLY. AT MLY TURN LEFT ONTO MLY R297 TO GUDIL TO HOLD.

LEXUV SIDs

ENGINE FAILURE BEFORE THIRD SID TURN (LEXUV). TURN SOUTH TO HEADING 180M AND CLIMB TO 4000FT, CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER THIRD SID TURN (LEXUV). CONTINUE WITH SID. ATC REQUIRED ALTITUDES MAY NOT BE MET.

RWY 30**ALL SIDs**

ENGINE FAILURE BEFORE MLY 7D - CLIMB AHEAD TO MLY 7D THEN LEFT ONTO HDG 267M CLIMBING TO 2000FT WITHIN MLY 15D. ON REACHING 2000FT TURN LEFT ONTO HDG 180M CLIMBING TO SUFFICIENT ALTITUDE BEFORE RETURNING TO GUDIL TO HOLD.

ENGINE FAILURE AFTER MLY 7D - NO RESTRICTIONS.

SAN JOSE ALAJUELA (MROC)

PERFORMANCE RESTRICTIONS

RWY 07

TAKE-OFF RWY SELECTION

Preference is to use Rwy 25 even with TW up to limits. Use Rwy 07 only if Rwy 07 tkof perf significantly better.

RWY 07 WIND LIMITS

Rwy 07 takeoff not permitted when Northerly wind exceeds 15kts. For details refer to MROC Takeoff Wind Limits in Dispatch Performance Data Book.

ACCEL HT

ACCEL HT - 5000ft. EO ACCEL HT - MIN ACCEL (CARD). THR RED HT - 5000ft.

If ACCEL HT/EO ACCEL HT reached before established inbound TIO then speed intervene at current speed until established inbound TIO.

Note. Use bank angle selector in AUTO for initial right turn to TIO. No bank angle restriction after TIO.

Flap Setting Performance

Rwy 07 obstacle data valid for F5 take-off only.

For F15 request tkof performance on Rwy 07A from CARD.

For F20 request tkof performance on Rwy 07B from CARD.

Minimum Altitudes – ALL ENGINES

If altitude when crossing R318 TIO in northeasterly or R180 TIO in easterly direction is less than 13000ft then request climbing hold or extended vectors up to 13000ft before continuing.

RWY 25

ACCEL HT

ACCEL HT - 2000ft. EO ACCEL HT - 1000ft. THR RED HT - 2000ft.

Minimum Altitudes – ALL ENGINES

If altitude when crossing R318 TIO in northeasterly or R180 TIO in easterly direction is less than 13000ft then request climbing hold or extended vectors up to 13000ft before continuing.

SID – Transition parings NOT APPROVED for BAV OPS

ATENAS SID - COTOS and ISEBA Transitions.

CACAO SID and all transitions.

COCOS SID and all transitions. RAMON SID – BARVA Transition.

EMERGENCY TURN PROCEDURES**RWY 07****ALL SIDs**

ENGINE FAILURE BEFORE TIO - Fly rwy trk to D4 TIO. Turn right to TIO. Turn left to intercept TIO 248R. Climb to MSA.

AFTER TIO but BEFORE D10 TIO - Manoeuvre immediately to intercept R248 TIO outbound to PARZA. Hold at PARZA. Climb/drift down to MSA.

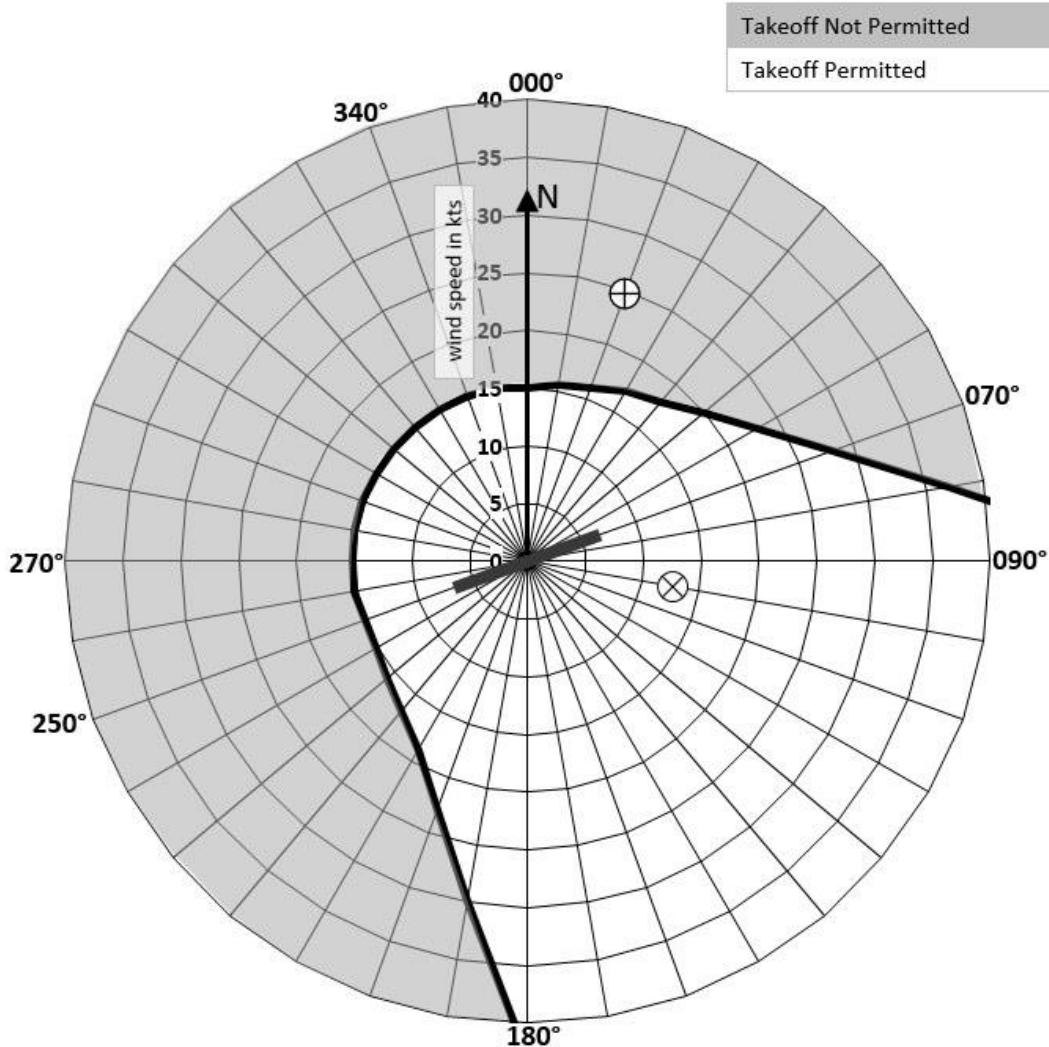
AFTER D10 TIO but BELOW 13000ft – **RAMEN SID – ARENA, RIOBA or SASAY Trans.** Left hdg 250M. Climb/drift down to MSA.

AFTER D10 TIO but BELOW 13000ft – **ATENAS SID – LIMON or PARRI Trans.** Follow SID to TEREL. Turn RIGHT to PARRI. Hold at PARRI. Climb/drift down to MSA.

AT/ABOVE 13000ft – ALL SIDs - No restrictions. Direct return to SJO might not be feasible if significant terrain transited while drifting down.

Northerly wind component reduces terrain clearance to south of airfield when critical engine fails (left engine, also see note).

When taking off Rwy 07 observe wind limits from diagram below. Takeoff Rwy 07 not permitted when wind reported in shaded area.



Examples:

- ⊕ Wind 020/25 – takeoff Rwy 07 not permitted
- ⊗ Wind 100/13 – takeoff Rwy 07 permitted

Note: Statistical data shows Northerly winds rarely exceed limiting wind speeds.

RWY 25**ALL SIDs and RADAR VECTOR DEPARTURE**

BEFORE D10 TIO - Manoeuvre immediately to intercept R248 TIO outbound to PARZA. Hold at PARZA. Climb/drift down to MSA.

AFTER D10 TIO but BELOW 13000ft - If BELOW 9000ft continue straight ahead. Climb/drift down to MSA.

AFTER D10 TIO but BELOW 13000ft - If ABOVE 9000ft turn hdg 250. Climb/drift down to MSA.

RAMON SID – ARENA, RIOBA or SASAY Trans - Left hdg 250. Climb/drift down to MSA.

ATENAS SID – LIMON or PARRI Transitions - Follow SID to TEREL. DCT PARRI. Hold at PARRI. Climb/drift down to MSA.

AT or ABOVE 13000ft - No restrictions. Direct return to SJO might not be feasible if significant terrain transited while drifting down.

NASSAU LYNDEN PINDLING (MYNN)

PERFORMANCE RESTRICTIONS

All Runways

Runway Bearing Strength

PUBLISHED BEARING STRENGTH IS 245000KG (777-200 A/C) AND 250000KG (777-300ER A/C).

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES EXCEPT IN EMERGENCY OR WITH PRIOR PERMISSION.

RWY 27

NOTE – RWY 27 USED STRICTLY FOR VISUAL MANOEUVERING

BAHRAIN (OBBI)**PERFORMANCE RESTRICTIONS****RWY 12R and 30L**

This is an emergency runway only - to be used when 12L/30R is closed.

Rwy only open when VIS is 5.0km or greater.

TEHRAN (OIIE)**EMERGENCY TURN PROCEDURES****RWY 11L and 11R****DEHNAMAK1M RABAM and VARAMIN SIDs**

Engine failure BELOW 5000ft QNH - turn RIGHT to VOR/DME RUS for hold and return.

Engine failure ABOVE 5000ft QNH - no restrictions provided SIDs followed.

SAVEH SID

Engine failure BELOW 6000ft QNH - follow SID to INTERCEPT VOR/DME IKA 236R then TURN RIGHT to VOR/DME RUS for hold and return.

Engine failure ABOVE 6000ft QNH – no restrictions provided SID followed.

PAVET SID

Engine failure BELOW 7000ft QNH - follow SID to INTERCEPT VOR/DME IKA 268R then turn RIGHT to VOR/DME RUS for hold and return.

Engine failure ABOVE 7000ft QNH - no restrictions provided SID followed.

NABAX, PAROT and PAXID SIDs

Engine failure BELOW 7000ft QNH - follow SID to INTERCEPT VOR/DME IKA 276R (if beyond IKA 276R turn LEFT IMMEDIATELY) to VOR/DME RUS for hold and return.

Engine failure ABOVE 7000ft QNH - no restrictions provided SIDs followed.

EGVEL SID

Engine failure BEFORE VOR/DME RUS - follow SID to RUS for hold and return.

Engine failure AFTER VOR/DME RUS - no restrictions provided SID followed.

KAHRIZAH RADAL and RUDESHUR SIDs

No restrictions provided SIDs followed.

RADAR VECTOR SIDs

Ensure terrain clearance is achievable with all engines and engine out before accepting radar vectors deviating from published SIDs when below MSA.

RWY 29L and 29R**NABAX, PAROT3G, PAVET and SAVEH SIDs**

Engine failure BEFORE VOR/DME IKA 285R 17D - follow SID and turn LEFT to VOR/DME RUS for hold and return.

Engine failure AFTER VOR/DME IKA 285R 17D - no restrictions provided SIDs followed.

PAROT2H and PAXID SIDs

Engine failure BELOW 6000FT QNH - follow SID and turn RIGHT to NDB KAZ for hold and return.

The acft must be established on VOR/DME IKA 304R or 305R within IKA 12D and complete turn to KAZ within IKA 20D.

Engine failure ABOVE 6000FT QNH - no restrictions provided SIDs followed.

VARAMIN SID

Engine failure BELOW 5000FT QNH - follow SID to intercept VOR/DME IKA 052R (if beyond IKA 052R turn LEFT IMMEDIATELY) to NDB KAZ for hold and return.

Engine failure ABOVE 5000FT QNH - no restrictions provided SIDs followed.

EGVEL SID

Engine failure BEFORE VOR/DME RUS - follow SID to RUS for hold and return.

Engine failure AFTER VOR/DME RUS - no restrictions provided SID followed.

DEHNAMAK, KAHRIZAH, RABAM, RADAL and RUDESHUR SIDs

No restrictions provided SIDs followed.

RADAR VECTOR SIDs

Ensure terrain clearance is achievable with all engines and engine out before accepting radar vectors deviating from published SIDs when below MSA.

KUWAIT (OKBK)**PERFORMANCE RESTRICTIONS****All Runways**

IF RVRS INOP (RL AND CL ONLY) MINIMA 250M

IF RCLM AND RL (DAY ONLY) 300M RCLM OR RL (DAY ONLY) 400M NIL 500M

RWY 15R and 33L**RUNWAY BEARING STRENGTH**

RWY15R PUBLISHED BEARING STRENGTH IS 313000KG (777- 300ER A/C). 777-200 A/C HAVE NO RESTRICTIONS.

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES EXCEPT IN EMERGENCY OR WITH PRIOR PERMISSION.

DUBAI (OMDB)**PERFORMANCE RESTRICTIONS****RWY 30L**

Rwy 30L full length declared dists are shown from Twy K17/M20 intsn. A/c entering from Twy K18/M21 intsn must pull forward to Twy K17/M20 position prior to commencing take-off run.

MUSCAT (OOMS)

EMERGENCY TURN PROCEDURES

RWY 08L

RNAV EMURU, IZK and TULBU, and conventional EMURU and IZK SIDs

ALL ENGINES - No restriction provided SIDS followed.

ENGINE FAILURE before overfly MCT continue to MCT and hold for return.

ENGINE FAILURE after MCT - no restrictions provided SIDS flown.

MURMA SID

ALL ENGINES and ENGINE FAILURE - No restriction provided aircraft remains NORTH of R088 MCT.

RWY 26R

RNAV GERAR, DAPOK, IVETO, VUSET, SODEB, SEVLA, MUSRU and conventional SIDs, DAPOK and IVETO

No restriction provided SIDS followed.

RNAV SIDs EMURU, IZK, TULBU and conventional, EMURU, IZK and MUSRU

ALL ENGINES - No restriction provided SIDS followed.

ENGINE FAILURE before overfly MCT continue to MCT and hold for return.

ENGINE FAILURE after MCT - no restrictions provided SIDS flown.

ITLAK SID

ALL ENGINES and ENGINE FAILURE - No restriction provided aircraft remains NORTH of R260 MCT.

TOKYO HANEDA (RJTT)

PERFORMANCE RESTRICTIONS

All Runways

KANEK SID

Do not proceed beyond LUPUS below 13000ft.

If 13000ft not achieved by this point turn left to VOR HYE and contact ATC for instructions.

MITOH SID

Do not proceed beyond LUPUS or SEKID below 13000ft.

If 13000ft not achieved by this point turn left to VOR HYE and contact ATC for instructions.

PLUTO SID

Do not proceed beyond SYE below 12000ft.

If 12000ft not achieved by this point turn to DENNY for hold/return. Contact ATC for instructions.

SEKID SID

Do not proceed beyond SEKID below 13000ft.

If 13000ft not achieved by this point turn left to VOR HYE and contact ATC for instructions.

YANG SID

Do not proceed beyond YANAG below 13000ft.

If 13000ft not achieved by this point turn left to VOR HYE and contact ATC for instructions.

SEKIYADO SID

Do not proceed beyond SYE below 12000ft.

If 12000ft not achieved by this point turn to DENNY for hold/return. Contact ATC for instructions.

JYOGA, MIURA, OPPAR, URAGA, HUMMINGBIRD SIDs

No restrictions provided SID followed and SSA achieved.

RWY 04

Runway Bearing Strength

RWY04 PUBLISHED BEARING STRENGTH IS 325000KG (777-300ER A/C). 777-200 A/C NO RESTRICTION.

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES EXCEPT IN EMERGENCY OR WITH PRIOR PERMISSION.

Note. NIL LIGHTING - RVR BECOMES 500M DAYTIME ONLY

RWY 05 and 23**Runway Bearing Strength**

PUBLISHED BEARING STRENGTH IS 279000KG (777-300ER AND 777-200 A/C).

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES EXCEPT IN EMERGENCY OR WITH PRIOR PERMISSION.

Note. NIL LIGHTING - RVR BECOMES 500M DAYTIME ONLY

RWY 16L and 34R

WHEN SSP IN FORCE AND MULTIPLE RVR NOT AVAILABLE RVR 250M

WHEN SSP IN FORCE WITH REDL OR RCLL OR RCL MARKING RVR 300M

WHEN SSP NOT IN FORCE RVR 400M

NIL LIGHTING DAYTIME ONLY VIS 500M

RWY 16R, 22 and 34L**Runway Bearing Strength**

PUBLISHED BEARING STRENGTH IS 325000KG (777-300ER A/C). 777-200 A/C NO RESTRICTION.

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES EXCEPT IN EMERGENCY OR WITH PRIOR PERMISSION.

Note. NIL LIGHTING - RVR BECOMES 500M DAYTIME ONLY

SEOUL INCHEON (RKSI)

PERFORMANCE RESTRICTIONS

All Runways

REDL AND RCLL TDZ MID ROLLOUT 150M

REDL AND RCLL 200M

DAY REDL AND RCL 300M

NIGHT REDL AND RCL AND RENL 300M

DAY REDL OR RCL 400M

NIGHT REDL OR RCL AND RENL 400M

DAY ONLY NIL 500M

EMERGENCY TURN PROCEDURES

RWY 15L, 15R and 16

SEL, SOT, BOPTA, OSPOT and RADAR SIDs

Engine failure before 1000FT QNH - follow SID to 1000FT QNH before turning RIGHT to RONJI for hold/return. Contact ATC for instructions.

Engine failure AFTER 1000FT QNH but BEFORE 5000FT QNH - turn RIGHT to RONJI for hold/return. Contact ATC for instructions.

Engine failure AFTER 5000FT QNH - no restrictions provided SID followed and SSA achieved.

BINIL SID

No restrictions provided SID followed and SSA achieved.

RWY 33L, 33R and 34

SEL, NOPIK, BOPTA, SOT, EGOBA, OSPOT and RADAR SIDs

No restrictions provided SID followed and SSA achieved.

RIO DE JANEIRO GALEAO (SBGL)**PERFORMANCE RESTRICTIONS****RWY 10****PCX SIDs**

Rwy 10 PCX SIDs ALL ENGINES and ENGINE OUT - DO NOT CONTINUE on SID past PCX below 8000ft QNH (7980ft HAA). If necessary enter hold at PCX.

RWY 10 and 28

IF MID POINT RVR INOP RVR BECOMES 400M.

IF C/L OR EDGE LIGHTS INOP RVR BECOMES 500M.

EMERGENCY TURN PROCEDURES**RWY 10****IH SIDs**

No restrictions provided SID followed and SSA achieved.

EVRAD SIDs

ALL ENGINES and ENGINE OUT - DO NOT CONTINUE on SID past EVRAD below 8000ft QNH (7980ft HAA). If necessary turn towards PCX and enter hold.

UGROK SIDs

ALL ENGINES - DO NOT CONTINUE on SID past UGROK below 7000ft QNH (6980ft HAA). If necessary turn LEFT towards CXI then direct OPSID for hold.

Engine failure BEFORE VURUK continue on to PCX AND enter hold.

Engine failure AFTER VURUK turn IMMEDIATELY LEFT towards CXI then direct OPSID for hold.

RWY 15**ISRIN and PCX SIDs**

ALL ENGINES and ENGINE OUT - DO NOT CONTINUE on SID past PCX below 8000ft QNH (7980ft HAA). If necessary enter hold at PCX.

Engine failure BELOW 3500ft - Turn LEFT (not below 500ft) to UTMIP. Turn RIGHT to PCX and enter hold.

Engine failure ABOVE 3500ft - No restrictions provided SID followed and 8000ft achieved before continuing beyond PCX.

PUMSO SID

Engine failure BELOW 3500ft - Turn LEFT (not below 500ft) to UTMIP. Turn RIGHT to PCX and enter hold.

Engine fail ABOVE 3500ft - No restrictions provided SID followed to MSA.

IH SIDs

No restrictions provided SID followed and SSA achieved.

EVRAD SIDs

ALL ENGINES and ENGINE OUT - DO NOT CONTINUE on SID past EVRAD below 8000ft QNH (7980ft HAA). If necessary enter hold at PCX.

UGROK SIDs

ALL ENGINES - DO NOT CONTINUE on SID past UGROK below 7000ft QNH (6980ft HAA). If necessary turn left towards CXI then direct OPSID for hold.

Engine failure BEFORE VURUK continue on to PCX and enter hold. Engine failure AFTER VURUK turn IMMEDIATELY LEFT towards CXI then direct OPSID for hold.

RWY 28 and 33**PUMSO and SURKU SIDs**

No restrictions provided SID followed and SSA achieved.

NIBGU and ADA SIDs

ALL ENGINES - DO NOT CONTINUE on SID past NIBGU below 8000ft QNH (7980ft HAA). If necessary turn towards CXI then direct OPSID for hold.

Engine failure BEFORE NIBGU turn IMMEDIATELY towards CXI then direct OPSID for hold.

LIXEP and SCR SIDs

No restrictions provided SID followed and SSA achieved.

Engine failure BEFORE LIXEP turn IMMEDIATELY LEFT towards CXI then direct OPSID for hold.

SAO PAULO (SBGR)

PERFORMANCE RESTRICTIONS

RWY 09L and 09R

BGC and SCB SIDs NOT AUTHORISED FOR BAV OPS - AS AIRCRAFT UNABLE TO CLEAR TERRAIN.

RWY 09R

IF ONE RVR INOP NIL/400M.

IF RCL OR HIRL INOP NIL/500M.

RWY 27L and 27R

BGC SID NOT AUTHORISED FOR BAV OPS – AIRCRAFT IS UNABLE TO CLEAR TERRAIN.

EMERGENCY TURN PROCEDURES

RWY 09L and 09R

SCP, IVRAG, GENKO and DORLU SIDs

Engine Failure BEFORE BCO 8d on SID track - Follow SID to BCO. Turn RIGHT on to track 273M (If beyond BCO turn RIGHT immediately).

Engine Failure AFTER BCO 8d on SID track - No restrictions provided SID followed to MSA.

Note - Terrain clearance has been checked within a 10nm radius of BCO from bearing 070M - 290M assuming engine out performance.

CGO SIDs

Engine Failure BEFORE CGO - Continue to CGO. Turn RIGHT for return.

Engine Failure AFTER CGO - No restrictions provided SID followed and SSA achieved.

Note-All engines FL100 or above ATC restriction at CGO. Ensure acft can meet this restriction before accepting SID.

BGC and SCB SIDs NOT AUTHORISED FOR BAV OPS - AS AIRCRAFT UNABLE TO CLEAR TERRAIN.

RWY 27L and 27R

ROMIB and DETIP SIDs

All engines - Max speed 250kts and Min bank angle of 25 deg until established inbound to SUDGU.
Note - This speed overrides speed restriction shown on SID chart.

Engine failure - max V2 and min bank angle 15 deg until established inbound to SUDGU.

Engine Failure BEFORE SUDGU - Manoeuvre to intercept CGO 070R outbound and contact ATC for return. **DO NOT FLY** outside CGO 40D.

Engine Failure AFTER SUDGU - No restrictions provided SID followed to MSA.

Note - Terrain clearance has been checked within a 10nm radius of BCO from bearing 070M - 290M assuming engine out performance.

CGO SIDs

Engine Failure BEFORE CGO - Continue to CGO before turning LEFT for return.

Engine Failure AFTER CGO - No restrictions.

BGC SID – NOT AUTHORISED FOR BAV OPS

LIMA JORGE CHAVEZ (SPJC)

PERFORMANCE RESTRICTIONS

All Runways

All Engines – Min Crossing Altitude

Review Performance Manual for Min Crossing Altitudes per SID. Request additional track miles from ATC if required.

Take Off Minima

400M REQUIRES HIRL AND RCLL OR RCLM.

IF NOT AVBL THEN VIS BECOMES 1600M OR APPLICABLE LDG MINIMA – WHICHEVER HIGHER.

RWY 15

SIDs NOT AUTHORISED

The following SIDs are NOT AUTH for BAV OPS - AKSOL ASI CEDRO AMVEX4F ILMAR ILPIP ILROL4F KULIS MEXUR OPROS1F PAKOL SCO.

RWY 33

SIDs NOT AUTHORISED

The following SIDs are NOT AUTH for BAV OPS - ASI CEDRO ILMAR ILPIP PAKOL.

EMERGENCY TURN PROCEDURES

RWY 15

ATATU, BTE, AMVEX3G, AMVEX3H, ILROL3G, ILROL3H, ISREN, KALAR, OPROS1G, OPROS1H and SLS SIDs

Engine failure below 2000ft - fly rwy trk to D6 LIM. Turn to hdg 210M. Climb to MSA.

Engine failure between 2000ft and entering Terrain Critical area - turn to hdg 270M. Climb to MSA. Diversion options are LIM or approved altns.

Engine failure after entering Terrain Critical Area - see Driftdown/Decompression Escape Routes in Performance Manual.

RWY 33

ATATU, AMVEX3J, BTE, ISREN, KALAR, OPROS1J and SLS SIDs

Engine failure before entering Terrain Critical area - turn to hdg 270M. Climb to MSA. Diversion options are LIM or approved altns.

Engine failure after entering Terrain Critical Area - see Driftdown/Decompression Escape Routes in Performance Manual.

ANTIGUA V.C. BIRD INTL (TAPA)

DEPARTURE PROCEDURE

RWY 07

UNLESS OTHERWISE INSTRUCTED OR AUTH BY ATC CLIMB TO 500FT AND TURN IMMEDIATE LEFT OR RIGHT DEPENDING UPON DESTINATION AT A BANK ANGLE OF AT LEAST 15 DEGS IN ORDER TO AVOID LONG ISLAND.

A/C PROCEEDING ON A NORTHERLY TRACK SHOULD INITIALLY MAINTAIN A HEADING NOT MORE EASTERLY THAN 026M UNTIL THE A/C IS NORTH OF A BEARING (QDR) OF 071M FROM NDB ZDX.

A/C PROCEEDING ON A SOUTHERLY TRACK MAY CONTINUE WITH COURSE INTERCEPT PROVIDED THE INITIAL RIGHT TURN HAS BEEN ACHIEVED.

ENGINE FAILURE - NO RESTRICTIONS.

BARBADOS GRANTLEY ADAMS (TBPB)**PERFORMANCE RESTRICTIONS****All Runways****Noise Abatement**

NORTHBOUND DEPARTURES. CLIMB TO 2500FT OR BGI 7D WHICHEVER FIRST BEFORE TURNING ONTO ATC HEADING.

SOUTHBOUND DEPARTURES CLIMB TO 2000FT OR BGI 3D WHICHEVER FIRST BEFORE TURNING TO ATC HEADING

GRENADA (TGPY)**PERFORMANCE RESTRICTIONS****All Runways****Runway Bearing Strength**

RWY10 PUBLISHED BEARING STRENGTH IS 300000KG (777-300ER A/C). 777-200 A/C NO RESTRICTION.

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES EXCEPT IN EMERGENCY OR WITH PRIOR PERMISSION.

RWY 10

ALL ENGINES AND ENGINE INOPERATIVE NO RESTRICTIONS. FOLLOW PUBLISHED DEPARTURE PROCEDURES.

RWY 28

ALL ENGINES AND ENGINE INOPERATIVE MAINTAIN RUNWAY HEADING. AT 1000FT QNH TURN ON COURSE.

FOR NORTH EASTERLY ROUTINGS DO NOT CROSS THE GND 030R UNLESS 4000FT QNH OR ABOVE.

TOBAGO (TTCP)**PERFORMANCE RESTRICTIONS****RWY 29****INTERSECTION DEPT DATA**

TURN AREA INTERSECTION DATA IS VALID FOR MIDDLE TURN AREA ON RWY 29 APPROX 500M FROM THR AND CLOSEST TO THR.

DO NOT CONFUSE WITH SMALLER TURN AREA APPROX 900M FROM THR.

PORT OF SPAIN (TTPP)**PERFORMANCE RESTRICTIONS****RWY 28**

Use TWY A3 for T/off if WT permits to avoid backtracking on RWY

MOSCOW (UDD)**PERFORMANCE RESTRICTIONS****All Runways**

Transmissometer Sites - RVR A is positioned at MM and is advisory only. RVR B is positioned at TDZ and RVR C at midpoint. The RVR B reading for the reciprocal RWY may be used as stopend reading.

Measurement: at or below the trans HGT clncs may be in mtrs QFE. if operating QNH on QFE clncs crew must use QFE/QNH conv tables in perf manual.

RWY 14L and 32R**Runway Baring Strength**

RWY14L PUBLISHED BEARING STRENGTH IS 273000KG (777-200 A/C) AND 277000KG (777-300ER A/C).

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES EXCEPT IN EMERGENCY OR WITH PRIOR PERMISSION.

RWY 14R and 32L**Runway Baring Strength**

RUNWAY BEARING STRENGTH. RWY14R PUBLISHED BEARING STRENGTH IS 318000KG (777-300ER A/C). 777-200 A/C NO RESTRICTION.

ACTUAL T/OFF WEIGHT SHOULD NOT EXCEED THESE FIGURES EXCEPT IN EMERGENCY OR WITH PRIOR PERMISSION.

RWY 32R**Take off Performance Data**

T/off from twy B8 (TOR 3495m) whenever t/off wt permits.

MUMBAI INTL (VABB)**PERFORMANCE RESTRICTIONS****RWY 27**

IF TWY N1 CLOSED AND FULL LENGTH DEPT REQD BACKTRACK AT THRESHOLD AS TURNING PAN CONFIRMED AS 75M WIDE.

RWY 27 and 32

ACCEL / EO ACCEL / THR RED HT ALL 2000FT TO ENSURE HEIGHT RESTRICTION ACHIEVED.

RWY 32

IF RWY EDGE LTS AND RCLM INOP NIL/500M (DAY ONLY)

EMERGENCY TURN PROCEDURES**RWY 09****AURANGABAD, POSIN and ALBAP SIDs**

ENGINE FAILURE BEFORE 4000FT - CONTINUE TO BBB 5D BEFORE TURNING LEFT TO BBB FOR HOLD/RETURN. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 4000FT - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

DOGAP SIDs

ENGINE FAILURE BEFORE 4000FT - TURN RIGHT TO BBB FOR HOLD/RETURN. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 4000FT - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

OPAKA SIDs

ENGINE FAILURE BEFORE 5000FT - TURN LEFT TO BBB FOR HOLD/RETURN. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RWY 14**ALL SIDs**

ENGINE FAILURE BEFORE 5000FT - TURN IMMEDIATELY LEFT TO BBB FOR HOLD/RETURN. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RWY 27**AURANGABAD, POSIN and ANOLI (AAU POSIN TRNS) SIDs**

ENGINE FAILURE BEFORE 4000FT - CONTINUE TO BBB 5D BEFORE TURNING LEFT TO BBB FOR HOLD/RETURN. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 4000FT - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

DOGAP VEVAK(PUN TRNS) SIDs

ENGINE FAILURE BEFORE 4000FT - TURN RIGHT TO BBB FOR HOLD/RETURN. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 4000FT - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RWY 32**XOPAL SIDs**

ENGINE FAILURE BEFORE 4000FT - CONTINUE TO BBB 5D BEFORE TURNING LEFT TO BBB FOR HOLD/RETURN. CONTACT ATC FOR INSTRUCTIONS.

ENGINE FAILURE AFTER 4000FT - NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

HONG KONG INTERNATIONAL (VHHH)**PERFORMANCE RESTRICTIONS****RWY 07L****ALL ENG MIN ACCEL ALT**

ALL ENG MIN ACCEL ALT (AA) 1900FT QNH (1872FT HAA). ENG INOP MIN ACCEL ALT (AA)
1900FT QNH (1872FT HAA).

All Runways

IF HIRL OR RCL INOP RVR BECOMES 400M.

HYDERABAD RAJIV GANDHI (VOHS)

PERFORMANCE RESTRICTIONS

RWY 09L

Availability

This runway is promulgated as an emergency runway available only when the main runway (RWY 09R) is closed. It is usually designated as TWY A.

T/O THR is displ 310m from start of paved surface and is marked as LDG THR. RUNWAY ONLY USED FOR DAY VFR OPS.

RWY 27R

Availability

This runway is promulgated as an emergency runway available only when the main runway (RWY 27L) is closed. It is usually designated as TWY A.

T/O THR is displ 343m from start of paved surface and is marked as LDG THR. RUNWAY ONLY USED FOR DAY VFR OPS.

CHENNAI MADRAS (VOMM)

PERFORMANCE RESTRICTIONS

RWY 07

F/L (backtrack) posn using left hand taxi line from twy K and turning area (TORA 3658m) should only be used when planned take-off weight requires its use otherwise use twy K right hand taxi line onto rwy (TORA 3458m) - CARD acft see additional rwy data.

EMERGENCY TURN PROCEDURES

RWY 07

DORAM 1/3 and DOHIA (DORAM / DOLKI TRNS) SIDs

Engine failure BEFORE MMV 15D - turn LEFT to MMV for hold or return. Contact ATC for instructions.

Engine failure AFTER MMV 15D - no restrictions provided SID followed and SSA achieved.

All other SIDS (both conventional and RNAV) - no restrictions provided SID followed and SSA achieved.

RWY 25

DORAM 2/4, ANIRO 2 and DOHIA (DORAM / DOLKI TRNS) SIDs

Engine failure BEFORE MMV 15D - turn RIGHT to MMV for hold or return. Contact ATC for instructions.

Engine failure AFTER MMV 15D - no restrictions provided SID followed and SSA achieved.

All Other SIDs (Conventional and RNAV)

No restrictions provided SID followed and SSA achieved.

BANGKOK SUVARNABHUMI (VTBS)

EMERGENCY TURN PROCEDURES

RWY 01L and 01R

ALBOS, BATOK, BONVO, GORSI, HHN, KASNI, KIGOB, NOBER, OSUKA, PASTO, REGOS, ROBKA, SABIS, SEMBO, TANGO, TARED, TL and UKERA SIDs
NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND MSA ACHIEVED.

KRT and RYN SIDs

ENG FAILURE BELOW 4000FT - TURN ONTO HDG 195DEG MAG AND CONTACT ATC FOR INSTRUCTIONS.

ENG FAILURE ABOVE 4000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND MSA ACHIEVED.

RWY 19L and 19R

ALBOS, BONVO, NOBER, OSUKA, PASTO, SEMBO, TANGO, TARED and TL SIDs

ENG FAILURE BELOW 1500FT - TURN ONTO HDG 180DEG MAG AND CONTACT ATC FOR INSTRUCTIONS.

ENG FAILURE ABOVE 1500FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND MSA ACHIEVED.

RYN SID

ENG FAILURE BELOW 4000FT - TURN ONTO HDG 195DEG MAG AND CONTACT ATC FOR INSTRUCTIONS.

ENG FAILURE ABOVE 4000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND MSA ACHIEVED.

BATOK, GORSI, HHN, KASNI, KIGOB, KRT, REGOS, ROBKA, SABIS and UKERA SIDs

NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND MSA ACHIEVED.

KUALA LUMPUR SEPANG (WMKK)

EMERGENCY TURN PROCEDURES

RWY 14L and 14R

ISTAN, PIBOS, KIMAT and RADAR SIDs

Engine Failure below 6000ft - turn right hdg 180. Climb to MSA.

Engine Failure above 6000ft - no restrictions provided SIDs followed to MSA.

AGOSA, BATAR, MITOS and RUMID SIDs.

No restrictions provided SIDs followed to MSA.

RWY 32L and 32R

ISTAN, PIBOS, KIMAT and RADAR SIDs

Engine Failure below 6000ft - turn left hdg 270. Climb to MSA.

Engine Failure above 6000ft - no restrictions provided SIDs followed to MSA.

AGOSA, BATAR, DUMOK, MITOS and RUMID SIDs

No restrictions provided SIDs followed to MSA.

BEIJING PEKING (ZBAA)**PERFORMANCE RESTRICTIONS****RWY 01 and 36R**

IF RCL INOP RVR BECOMES 300M.

IF LVP NOT IN FORCE RVR BECOMES 400M.

IF RWY LIGHTS INOP RVR BECOMES 500M DAY ONLY.

RWY 18L, 36L

IF RWY LIGHTS INOP RVR BECOMES 500M DAY ONLY.

EMERGENCY TURN PROCEDURES**RWY 01****YV and CDY SIDs**

ENGINE FAILURE BEFORE 5000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN.

ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED.

NOTE - TERRAIN RISES TO 8000FT BEYOND YV.

LADIX and TONIL SIDs

NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RENOB and SOSDI SIDs

ENGINE FAILURE BEFORE 6000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN.

ENGINE FAILURE AFTER 6000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN CONTINUES TO RISE TO 10000FT BEYOND END OF SIDS

RWY 18L, 18R and 19**VY and CDY SIDs**

ENGINE FAILURE BEFORE 5000FT - CONTINUE TO WF (AA282 OR AA265 FOR RNAV SIDS) BEFORE TURNING LEFT TO PEK FOR HOLD/RETURN.

ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN RISES TO 8000FT BEYOND YV.

LADIX and TONIL SIDs

NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RENOB and SOSDI SIDs

ENGINE FAILURE BEFORE 6000FT - IMMEDIATE LEFT TURN TO PEK FOR HOLD/RETURN.

ENGINE FAILURE AFTER 6000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN CONTINUES TO RISE TO 10000FT BEYOND END OF SIDS

RWY 36L**CDY, LADIX, TONIL and YV SIDs**

ENGINE FAILURE BEFORE 5000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN.

ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN RISES TO 8000FT BEYOND YV.

RENOB and SOSDI SIDs

ENGINE FAILURE BEFORE 6000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN.

ENGINE FAILURE AFTER 6000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN CONTINUES TO RISE TO 10000FT BEYOND END OF SIDS

RWY 36R**YV/CDY SIDS**

ENGINE FAILURE BEFORE 5000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN.

ENGINE FAILURE AFTER 5000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN RISES TO 8000FT BEYOND YV.

LADIX/TONIL SIDS

NO RESTRICTIONS PROVIDED SIDS FOLLOWED AND SSA ACHIEVED.

RENOB/SOSDI SIDS

ENGINE FAILURE BEFORE 6000FT - IMMEDIATE RIGHT TURN TO PEK FOR HOLD/RETURN.

ENGINE FAILURE AFTER 6000FT - NO RESTRICTIONS PROVIDED SID FOLLOWED AND SSA ACHIEVED. NOTE - TERRAIN CONTINUES TO RISE TO 10000FT BEYOND END OF SIDS

CHENGDU SHUANGLIU (ZUUU)

PERFORMANCE RESTRICTIONS

All Runways

SIDs NOT APPROVED

LUG SIDs NOT APPROVED for BAV ops

RWY 02L and 20R

T/off RVR

IF REDL AND RCL ONLY RVR BECOMES 300M

IF REDL ONLY RVR BECOMES 400M

NIL LIGHTING RVR BECOMES 500M

RWY 02R and 20L

T/off RVR

IF REDL AND RCL ONLY RVR BECOMES 250M

IF REDL ONLY RVR BECOMES 400M

NIL LIGHTING RVR BECOMES 500M

EMERGENCY TURN PROCEDURES

RWY 02L and 02R

ZYG SIDs

Engine failure BEFORE 4000ft QNH - continue on SID to CTU 10D BEFORE turning RIGHT to CTU. Contact ATC for instructions.

Engine failure AFTER 4000ft QNH - no restrictions provided SID followed and MSA achieved.

ZTG, CZH and DOR SIDs

No restrictions provided SID followed and MSA achieved. NOTE - terrain only analysed to end of SIDs. Ground rises to EAST of JTG and considerably to WEST of CZH and NORTH of DOREX . Ensure adequate terrain clearance BEFORE continuing.

RWY 20L and 20R

DOR9Y and ZYG SIDs.

Engine failure BEFORE 4000ft QNH - continue on SID to CTU 10D BEFORE turning RIGHT to CTU. Contact ATC for instructions.

Engine failure AFTER 4000ft QNH - no restrictions provided SID followed and MSA achieved.

JTG / CZH / DOR8Y SIDs.

No restrictions provided SID followed and MSA achieved. NOTE - terrain only analysed to end of SIDs. Ground rises to EAST of JTG and considerably to WEST of CZH and NORTH of DOREX . Ensure adequate terrain clearance BEFORE continuing.