

Airport information:

Country: South Africa

City: JOHANNESBURG

Coordinates: S 26 08.0, E028 14.6

Elevation: 5558

Customs: Customs: H24

Fuel: 100, Jet A1

RFF: CAT 9

hours: H24

Runways:

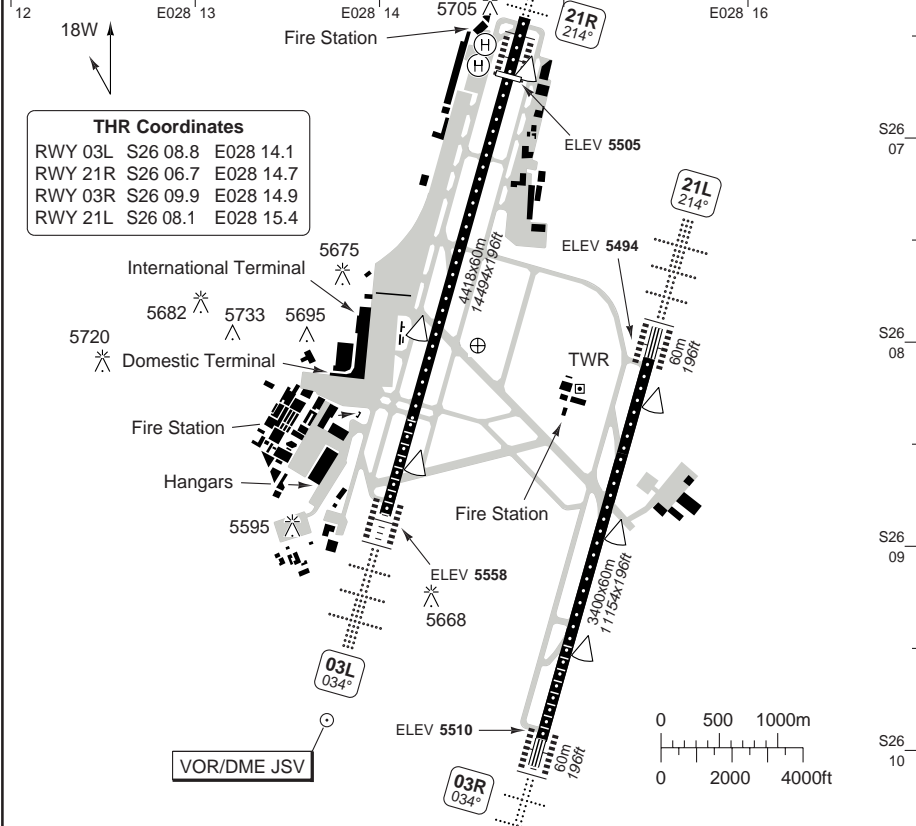
AERODROME

O R Tambo INTL JOHANNESBURG

10 - 1

O R Tambo GND 121.9	APN DEP 123.05	CLR 121.7 121.9	TWR 118.1 West 118.6 East 121.9	ATIS 126.2 131.725 (D) 115.2
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AD Elev **5558** ARP: S26 08.0 E028 14.5 RFF: CAT 9 AD HR: MON-FRI 0515-1715, SAT, SUN 0500-1830



THR Coordinates

RWY 03L	S26 08.8	E028 14.1
RWY 21R	S26 06.7	E028 14.7
RWY 03R	S26 09.9	E028 14.9
RWY 21L	S26 08.1	E028 15.4

RWY	Slope	TORA m/ft	LDA m/ft	ALS	REDL	RCLL	Additional
03L	-0.4	4418 / 14494	4418 / 14494	H-A	H	30m ①	P 3° L/R
21R	+0.4	4418 / 14494	3968 / 13018	H-A	H	-	P 3° L/R
03R	-0.1	3400 / 11154	3400 / 11154	H-A	H	30m ①	P 3° L/R
21L	+0.1	3400 / 11154	3400 / 11154	H-A	H	30m ①	P 3° L/R

① CLL only avbl on CAT-2 OPS.

EU OPS TAKE OFF MINIMA

RWY	Facilities	RVR			
		A	B	C	D
03L, 03R/21L	RCLL + REDL + Multiple RVR	LVTO	150m		200m
	RCLL + REDL	LVTO	200m		250m
	RCL (day only) or RCL + REDL	LVTO	250m		300m
All	RCL (day only) or RCL + REDL		400m		400m
	NIL (day only)		500m		500m

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Change: ICAO code

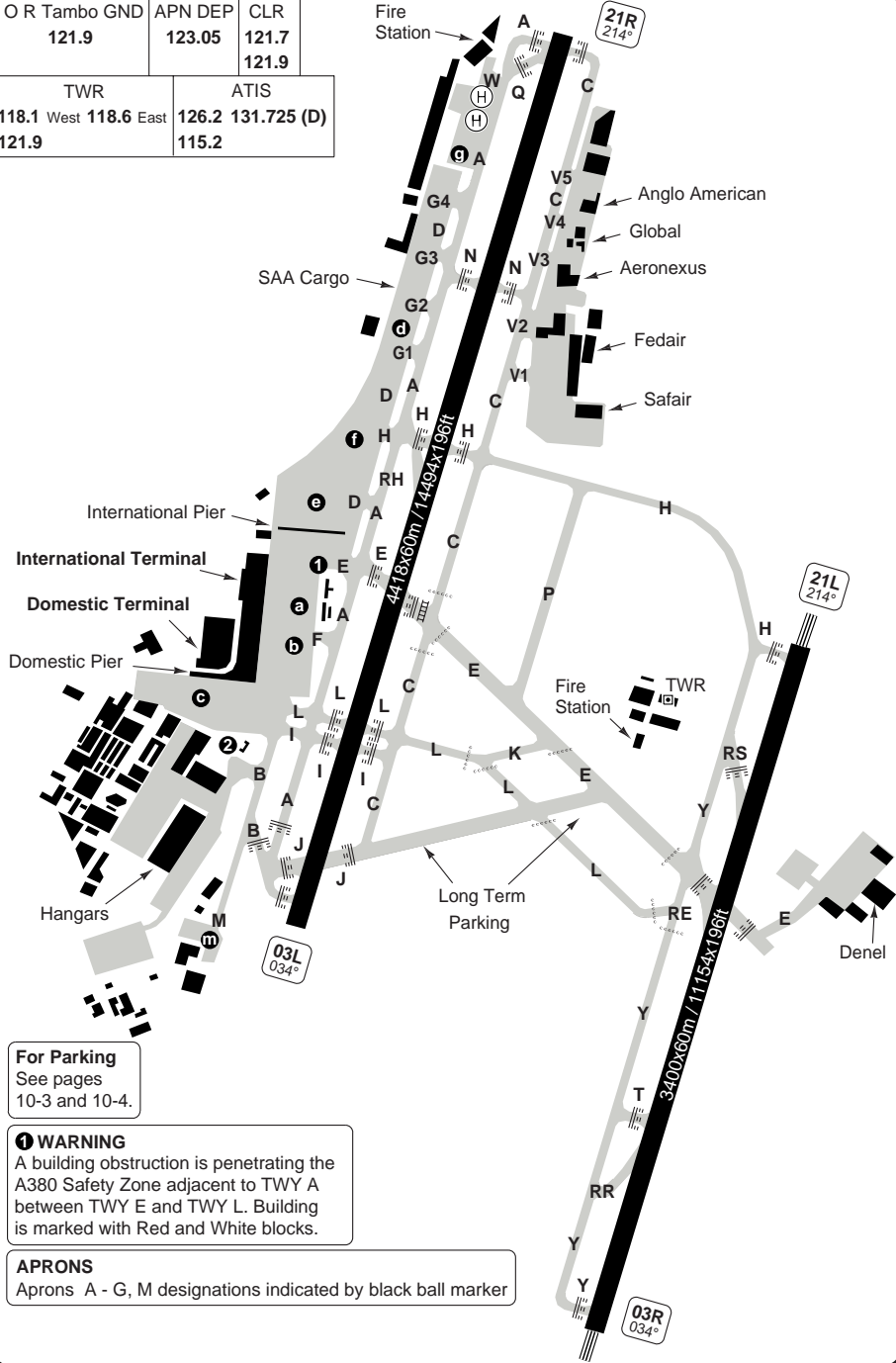
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AERODROME Overview

O R Tambo INTL JOHANNESBURG

10 - 2

O R Tambo GND 121.9	APN DEP 123.05	CLR 121.7 121.9
TWR 118.1 West 118.6 East 121.9	ATIS 126.2 131.725 (D) 115.2	



For Parking
See pages
10-3 and 10-4.

⚠ WARNING
A building obstruction is penetrating the A380 Safety Zone adjacent to TWY A between TWY E and TWY L. Building is marked with Red and White blocks.

APRONS
Aprons A - G, M designations indicated by black ball marker

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GROUND

Passenger Terminal

O R Tambo INTL

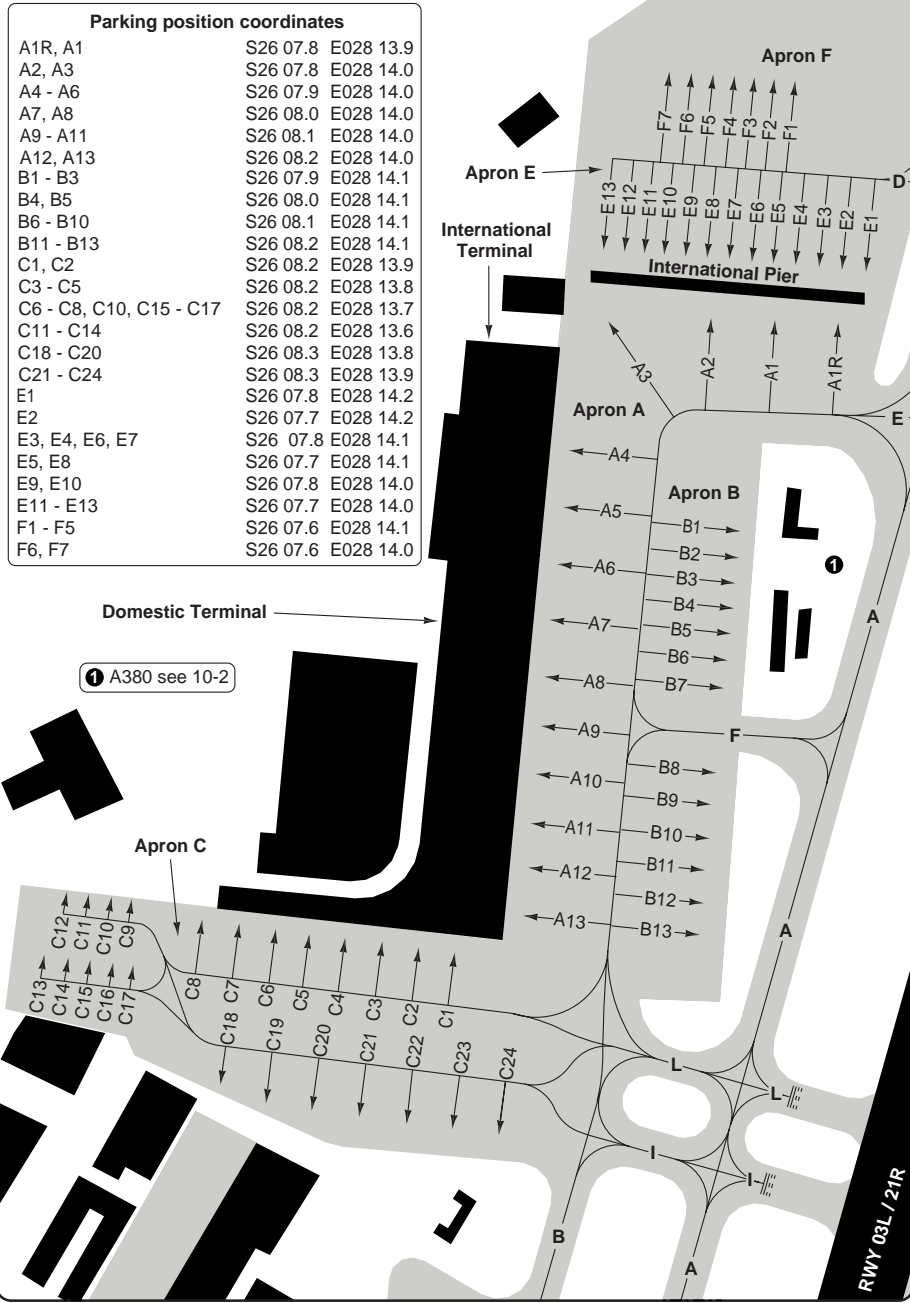
JOHANNESBURG

10 - 3

O R Tambo GND 121.9	APN DEP 123.05	CLR 121.7 121.9	TWR 118.1 West 118.6 East 121.9	ATIS 126.2 131.725 (D) 115.2
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Parking position coordinates

A1R, A1	S26 07.8	E028 13.9
A2, A3	S26 07.8	E028 14.0
A4 - A6	S26 07.9	E028 14.0
A7, A8	S26 08.0	E028 14.0
A9 - A11	S26 08.1	E028 14.0
A12, A13	S26 08.2	E028 14.0
B1 - B3	S26 07.9	E028 14.1
B4, B5	S26 08.0	E028 14.1
B6 - B10	S26 08.1	E028 14.1
B11 - B13	S26 08.2	E028 14.1
C1, C2	S26 08.2	E028 13.9
C3 - C5	S26 08.2	E028 13.8
C6 - C8, C10, C15 - C17	S26 08.2	E028 13.7
C11 - C14	S26 08.2	E028 13.6
C18 - C20	S26 08.3	E028 13.8
C21 - C24	S26 08.3	E028 13.9
E1	S26 07.8	E028 14.2
E2	S26 07.7	E028 14.2
E3, E4, E6, E7	S26 07.8	E028 14.1
E5, E8	S26 07.7	E028 14.1
E9, E10	S26 07.8	E028 14.0
E11 - E13	S26 07.7	E028 14.0
F1 - F5	S26 07.6	E028 14.1
F6, F7	S26 07.6	E028 14.0



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GROUND Parking Apron G/D

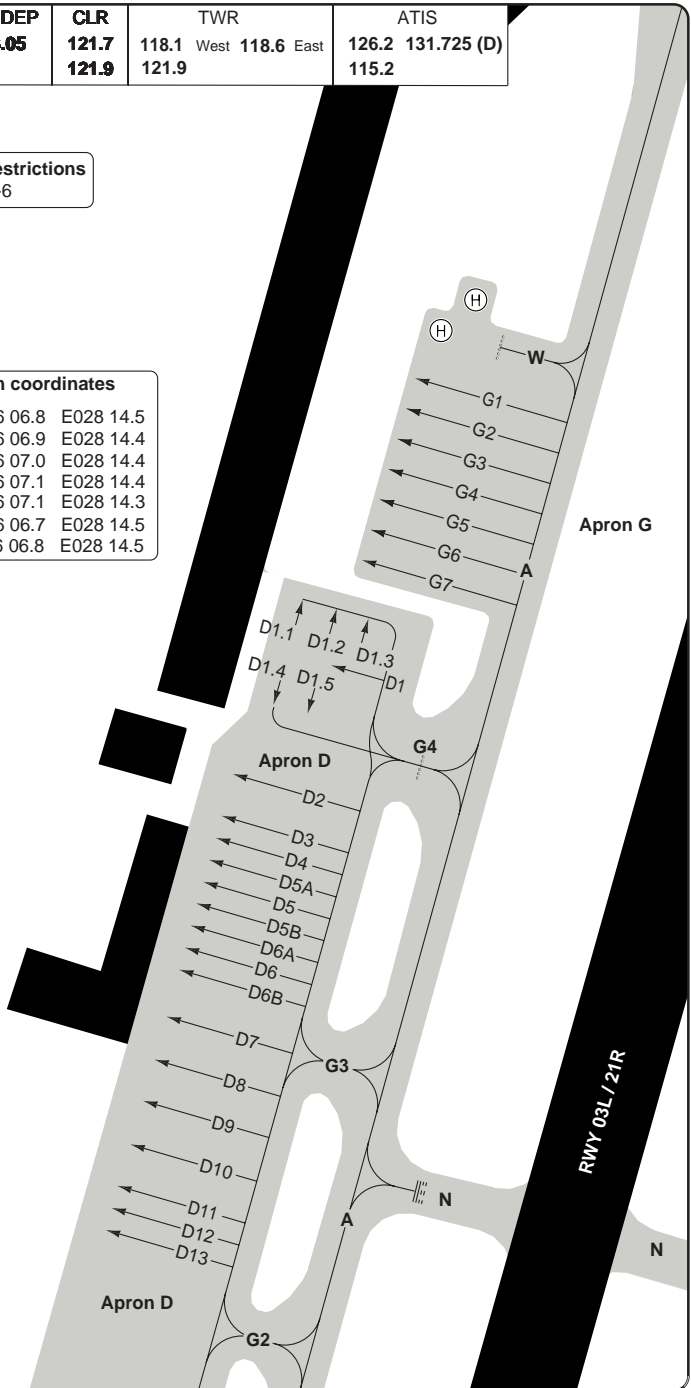
O R Tambo INTL **JOHANNESBURG**

10 - 4

O R Tambo GND 121.9	APN DEP 123.05	CLR 121.7 121.9	TWR 118.1 West 118.6 East 121.9	ATIS 126.2 131.725 (D) 115.2
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Taxi Restrictions
See 10-6

Parking position coordinates		
D1 - D1.5	S26 06.8	E028 14.5
D2 - D4	S26 06.9	E028 14.4
D5 - D8	S26 07.0	E028 14.4
D9 - D11	S26 07.1	E028 14.4
D12 - D13	S26 07.1	E028 14.3
G1 - G4	S26 06.7	E028 14.5
G5 - G7	S26 06.8	E028 14.5



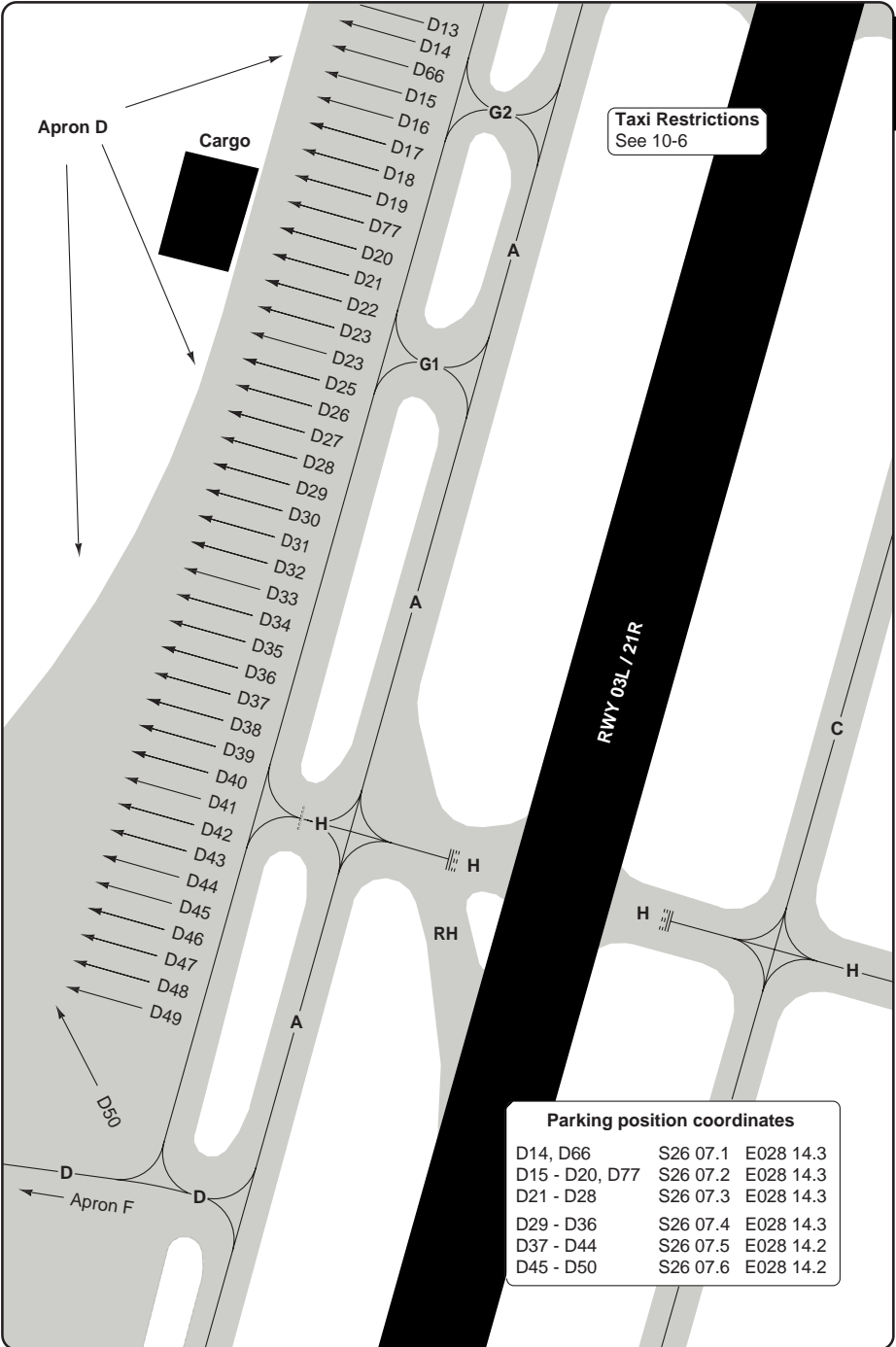
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GROUND Parking Apron D

O R Tambo INTL JOHANNESBURG



Taxi Restrictions
See 10-6

Parking position coordinates		
D14, D66	S26 07.1	E028 14.3
D15 - D20, D77	S26 07.2	E028 14.3
D21 - D28	S26 07.3	E028 14.3
D29 - D36	S26 07.4	E028 14.3
D37 - D44	S26 07.5	E028 14.2
D45 - D50	S26 07.6	E028 14.2

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GENERAL

OR Tambo INTL JOHANNESBURG

10 - 6

GENERAL

1. WARNING

- 1.1 Bird hazard.
- 1.2 Dog and trainer will be present on apron for wildlife control.
- 1.3 Standing water occurs on the RWY after heavy rain.

2. PREFERENTIAL RWY SYSTEM

- 2.1 RWY 03L/21R is for departures.
- 2.2 RWY 03R/21L is for arrivals.

3. SIMULTANEOUS USE OF PARALLEL RWY'S

Aircraft will be informed on ATIS when both RWY's are in use.

4. COMMUNICATION

- 4.1 Pilots landing at OR Tambo airport are to contact Apron Control on 122.65 (callsign "Alpha Charlie") for parking bay allocation prior to top of descent with ACFT reg, ETA, POB and last airport departed.
Parking bay information and ACFT reg is to be transmitted to TWR on 118.6/118.1 on vacation of Rwy,
- 4.2 Pilots departing OR Tambo Airport are to contact Apron Control on 122.65 (callsign "Alpha Charlie") prior to requesting pushback and pass ACFT, reg, ETD, POB and first destination airport.
- 4.3 ACFT registration, parking bay and flight level requested needs to be passed to FAJS CLR delivery on 121.7 when requesting ATC clearance.

5. SPEED

MAX 250kt below FL100.

6. CIRCUITS

RWY 03L/21L Left-hand.
RWY 03R/21R Right-hand.
Circuit Altitude 7000.

7. ARRIVALS

- 7.1 Arriving ACFT to expect clearance for ILS Z unless otherwise directed by ATC.
- 7.2 Circle to land at the discretion of PIC.

8. NOISE ABATEMENT PROCEDURE

Engine run-ups and Jet aircraft intersection departures are prohibited between 2000-0400.

9. WINDSHEAR

In strong NW wind conditions severe windshear can be expected below 300 GND on approach to RWY 03L/R.

10. TRAFFIC NOTES

Turbulence can be experienced to 500 GND at unspecified times due to steel works 5nm SE of aerodrome.

11. CLOSURE OF RWY'S

RWY 03L/21R closed:
TUE 2130-WED 0330 and
SUN BTN 0400-0545.

RWY 03R/21L closed:
MON 2130-TUE 0330 and
SAT BTN 0400-0545.

RWY's are available in case of emergency or weight restricted aircraft with 20mins prior notice.

12. TAXI

- 12.1 Max speed 10kt on TWY and apron when low visibility procedures are in force.
- 12.2 Exercise caution when taxiing on TWY B due to confusion with apron M. Also to exercise caution when taxiing for RWY 21R on TWY A as the centreline for TWY A6 is displaced to the West.
- 12.3 Rapid exit TWY E on RWY 03R at Echo Intersection. Lead in lights and signage will indicate the beginning of the rapid exit TWY.
- 12.4 Instructions to cross RWY's shall be issued by Surface Movement Control. It is important to acknowledge runway crossing instructions.
- 12.5 TWY D can be used by aircraft with a wingspan equal to or less than that of B744.

GENERALOR Tambo INTL **JOHANNESBURG**

10 - 7

12.6 Due to wingtip clearance restrictions, no Code 'E' ACFT allowed on Apron D taxilane when A380 taxiing on Northern portion of TWY A, abeam stands D2-D51.

12.7 No ACFT with wingspan of 52m or greater are to taxi on APN D taxilane when ACFT with a wingspan of 65m or greater are taxiing on northern portion of TWY A past APN D from stands D2 to D50.

13. APRON

13.1 Apron C for aircraft class 'C'.

13.2 For apron A, B and D, aircraft heavier than 12T will be parked nose in.

14. SLOT TIME ALLOCATION SYSTEM

14.1 Slot allocation is negotiated on behalf of the airline by an IATA slot coordinator.

14.2 Excluding VFR flights, the slot time allocation system will be in use 24 hours a day, 7 days a week including public holidays for ARR and DEP ACFT.

14.3 The clock hour is divided into six ten minute slots, with a maximum number of ACFT departing and arriving in that period.

14.4 ATC will depart aircraft in the same slot sector in sequence which will ensure minimum overall delay, having regard for the performance of the aircraft and the routing of the departing aircraft. A missed slot is one where the aircraft fails to arrive at or depart from the terminal within the allocated slot time.

14.5 DEP ACFT must be ready for start-up and pushback in accordance with the allocated airport slot.

GENERAL Comm Failure SID

OR Tambo INTL JOHANNESBURG

10 - 8

- 1. RWY 03L/R**
- 1.1 APDAK 1B (RNAV)/3A:**
Comply with SID, climbing to FL90 or last cleared level, whichever is higher. At APDAK continue as per flight plan.
- Aircraft wishing to return must continue to SID termination point and climb to the last assigned level or MSA, whichever is higher. At APDAK proceed to STV and comply with appropriate STAR communication failure.
- 1.2 EGMEN 1C (RNAV)/2A:**
Comply with SID, climbing to FL90 or last cleared level, whichever is higher. At EGMEN continue as per flight plan.
- Aircraft wishing to return must continue to SID termination point and climb to the last assigned level or MSA, whichever is higher. At EGMEN proceed to OKPIT and comply with OKPIT 4A STAR communication failure.
- 1.3 EXOBI 1A:**
Comply with SID, climbing to FL90 or last cleared level, whichever is higher. At EXOBI continue as per flight plan.
- Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At EXOBI proceed to WIV and comply with WIV 4A STAR communication failure.
- 1.4 GRASMERE 5B:**
Comply with SID, climbing to 8700 or last cleared level, whichever is higher. At GAV continue as per flight plan.
- Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At GAV proceed to NIBEX and comply with NIBEX 2A STAR communication failure.
- 1.5 NESAN 1A:**
Comply with SID, climbing to 8300 or last cleared level, whichever is higher. At NESAN continue as per flight plan.
- Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At NESAN proceed to OKPIT and comply with OKPIT 4A STAR communication failure.
- 1.6 NORVA 2A:**
Comply with SID, climbing to FL90 or last cleared level, whichever is higher. At MEV continue as per flight plan.
- Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At MEV proceed to OKPIT and comply with OKPIT 4A STAR communication failure.
- 1.7 OVALA 1A:**
Comply with SID, climbing to FL90 or last cleared level, whichever is higher. At OVALA continue as per flight plan.
- Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At OVALA proceed to STV and comply with STV 6A STAR communication failure.
- 1.8 RAGUL 3A:**
Comply with SID, climbing to 8700 or last cleared level, whichever is higher. At RAGUL continue as per flight plan.
- Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At RAGUL proceed to NIBEX and comply with NIBEX 2A STAR communication failure.
- 1.9 VASUR 3A:**
Comply with SID, climbing to 8700 or last cleared level, whichever is higher. At VASUR continue as per flight plan.
- Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At VASUR proceed to AVAGO and comply with AVAGO 2A STAR communication failure.

GENERAL Comm Failure SID

OR Tambo INTL JOHANNESBURG

10-9

2. RWY 21L/R**2.1 APDAK 2B/1D (RNAV):**

Comply with SID, climbing to 8300 (8400 for 1D) or last cleared level, whichever is higher. At APDAK continue as per flight plan.

Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At APDAK proceed to STV and comply with STV 5B STAR communication failure.

2.2 EGMEN 1D (RNAV)/2B:

Comply with SID, climbing to 8400 (8300 for 2B) or last assigned level, whichever is highest. At EGMEN continue as per flight plan.

Aircraft wishing to return must continue to the SID termination point and climb to the last assigned level or MSA, whichever is higher. At EGMEN proceed to OKPIT and comply with the OKPIT 4B STAR communication failure.

2.3 EXOBI 3B:

Comply with SID, climbing to 8300 or last cleared level, whichever is higher. At EXOBI continue as per flight plan.

Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At EXOBI proceed to WIV and comply with WIV 3C STAR communication failure.

2.4 GEROX 1C:

Comply with SID, climbing to 8400 or last cleared level, whichever is higher. At GEROX set course as per flight plan.

Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At GEROX proceed to STV and enter STV hold descending to FL240, or if below FL240, hold at last assigned level for minimum 5nm. Comply with the STV 5B STAR communication failure.

2.5 GRASMERE 6C: (21R only)

Comply with SID, climbing to 8300 or last cleared level, whichever is higher. At GAV set course for next fix outside D60 JSV and continue as per flight plan.

Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At GAV proceed to NIBEX and comply with NIBEX 2C STAR communication failure.

2.6 HEIDELBERG 5D:

Comply with SID, climbing to 8300 or last cleared level, whichever is higher. At HGV continue as per flight plan.

Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At HGV proceed to STV and comply with STV 5B STAR communication failure.

2.7 LANSERIA 1C: (21R only)

Comply with SID, climbing to 8300 or last cleared level, whichever is higher. At VASUR continue as per flight plan.

Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At VASUR proceed to AVAGO and comply with AVOGO 2B STAR communication failure.

2.8 OVALA 1B:

Comply with SID, climbing to 8300 or last cleared level, whichever is higher. At OVALA continue as per flight plan.

Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At OVALA proceed to STV and comply with STV 5B STAR communication failure.

GENERAL Comm Failure SID

OR Tambo INTL

JOHANNESBURG

10 - 10

2.9 **RAGUL 3B:**

Comply with SID, climbing to FL100 or last cleared level, whichever is higher. Cross D12 JSV at FL90 or above if cleared. Cross D18 JSV at FL100 or above if cleared. At RAGUL continue as per flight plan.

Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At RAGUL proceed to NIBEX and comply with NIBEX 2C STAR communication failure.

2.10 **VASUR 3B:**

Comply with SID, climbing to 8700 or last cleared level, whichever is higher. At VASUR continue as per flight plan.

Aircraft wishing to return must continue to SID termination point and climb to last assigned level or MSA, whichever is higher. At VASUR proceed to AVAGO and comply with AVAGO 2B STAR communication failure.

GENERAL Comm Failure STAR OR Tambo INTL JOHANNESBURG

10 - 11

1. NOTE FOR COMMS FAIL STAR RWY03

- 1.1 Hold patterns below FL110 will be conducted partially outside controlled airspace.
- 1.2 Aircraft entering TMA at FL110 and below are to hold at last assigned level, and continue on the routeing for the designated STAR.
- 1.3 In the event of a missed approach with the intention of diverting to an alternate aerodrome proceed as follows:
- Diverting to the north and northwest: VASUR 3A.
 - Diverting to the east and northeast: EGMEN 2A (Jet) or EXOBI 1A (Prop).
 - Diverting to the Southeast: APDAK 3A.
 - Diverting to the West and Southwest: RAGUL 3A.

1.4 AVAGO 1C:

Before AVAGO: Proceed to AVAGO and enter hold. Hold at last assigned level for minimum of 5min, then descend to FL130 in hold, or maintain last assigned level if lower. Leave AVAGO on the 'After AVAGO' communication failure procedure.

After AVAGO: Continue routeing for STAR. At JS035 descend to FL090, at JS037 descend to 8000. At JS037 proceed to VEKOP. Complete an RNAV (GNSS) RWY 03R approach to land.

1.5 AVAGO 2A:

Before AVAGO: Proceed via AVAGO and hold at the last assigned level for minimum of 5min, then descend to FL130 in the hold, or maintain last assigned level if lower. Leave AVAGO on the 'After AVAGO' communication failure procedure.

After AVAGO: Continue routeing for STAR. Passing D10 JSV descend to FL090. Passing D35 WKV on R218 turn left 121° and descent to 8000. Crossing R221 JSV turn left 061° to intercept the LOC RWY 03R. Complete a straight-in ILS approach.

1.6 AVILO 1A:

Before AVILO: Proceed to STV and enter the STV hold descending to FL240, or if lower, maintain last assigned level and hold for minimum 5min. Leave STV on the 'After STV' communication failure procedure.

After AVILO: Leave AVILO on 350°/R170 JSV and descend to FL130. At R170/D29 JSV turn left to intercept R310 STV and descend to FL110. On crossing R030 HGV descend to 8000. Crossing R197 JSV turn right 350° to intercept ILS LOC RWY 03R. Complete a straight-in ILS 03R approach.

1.7 AVILO 1B:

Before AVILO: Proceed to STV and enter the STV hold descending to FL240, or if lower, maintain last assigned level and hold for minimum 5min. Leave STV on the "After STV" communication failure procedure.

After AVILO

Continue on the AVILO 1B RNAV (GNSS) STAR. At ETLIG continue on the RNAV (GNSS) RWY 03R approach to JS2F1 and intercept the ILS LOC RWY 03R to land.

1.8 IBKUS 1A:

Before IBKUS: Proceed to STV and enter the STV hold descending to FL240, or if lower, maintain last assigned level and hold for minimum 5min. Leave STV on the 'After STV' communication failure procedure.

After IBKUS: Leave IBKUS on 340°/R160 JSV and descend to FL130. At D37 JSV turn left to intercept R310 STV and descend to FL110. Crossing R030 HGV descend to 8000. Crossing R197 JSV turn right onto 350° to intercept ILS LOC RWY 03R. Complete a straight-in ILS approach.

GENERAL Comm Failure STAR OR Tambo INTL JOHANNESBURG

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1.9 IBKUS 1B:

Before IBKUS: Proceed to STV and enter the STV hold descending to FL240, or if lower, maintain last assigned level and hold for minimum 5min. Leave STV on the 'After STV' communication failure procedure.

After IBKUS: Continue routeing for STAR to ETLIG. At ETLIG continue on the RNAV (GNSS) STAR RWY 03R approach to JS2F1. Intercept the ILS LOC RWY 03R to land.

1.10 NIBEX 1B:

Before NIBEX: Proceed to NIBEX and enter the NIBEX hold. Hold at last assigned level for minimum 5min, then descend to FL130 in the hold, or maintain last assigned level if below. Leave NIBEX on the 'After NIBEX' communication failure procedure.

After NIBEX: Continue routeing for STAR to JS012. At JS012 descend to FL100, at JS013 descend to FL090, at JS014 descend to 9000. At JS015 complete a straight-in ILS RWY 03R approach.

1.11 NIBEX 2A:

Before NIBEX: Proceed to NIBEX and hold at last assigned level for minimum 5min. Descend to FL130 in the hold, or maintain last assigned level if below FL130. Leave NIBEX on the 'After NIBEX' communication failure procedure.

After NIBEX: Leave NIBEX on 055°/R235 JSV. At D30 JSV turn right 121° and descend to FL100. Crossing R221 JSV descend to FL090 and turn left 061° to intercept ILS LOC RWY 03R. Descend to 9000 and complete a straight-in ILS RWY 03R approach.

1.12 OKPIT 4A:

Before OKPIT: Proceed to OKPIT and hold at last assigned level for minimum 5min. Then descend to FL130 in hold, or maintain last assigned level if lower. Leave OKPIT on the 'After OKPIT' communication failure procedure.

After OKPIT: Continue routeing for STAR. Crossing R086 JSV on R031 HGV descend to FL100. Passing D15 JSV on R031 HGV turn right 301° and descend to 8300. Crossing R206 JSV turn right 001° to intercept the LOC RWY 03R. Complete a straight-in ILS RWY 03R approach.

1.13 STANDERTON 1C:

Before STV: Proceed to STV and hold at last assigned level for minimum 5min. Descend to FL130 in the hold or maintain last assigned level if lower. Leave STV on the 'After STV' communication failure procedure.

After STV: continue routeing for STAR to JS017 and descend to FL130. Passing JS017 descend to 8000. At ETLIG continue on the RNAV (GNSS) RWY 03R approach to JS2F1. Intercept the ILS LOC RWY 30R.

1.14 STANDERTON 6A:

Before STV: Proceed to STV and hold at last assigned level for minimum 5min, then descend to FL130 in hold, or maintain last assigned level if lower. Leave STV on the 'After STV' communication failure procedure.

After STV: Leave STV on R310 STV and descend to FL130. Crossing R197 JSV turn right 350° and descend to 8000 to intercept the LOC RWY 03R. Complete a straight-in ILS RWY 03R approach.

1.15 WITBANK 4A:

Before WITBANK: Proceed to WIV and hold at last assigned level for minimum 5min. Descend to FL130 in the hold or maintain last assigned level if below FL130. Leave WIV on the 'After WIV' communication failure procedure.

After WITBANK: Continue routeing for STAR. Crossing R141 JSV while established on R031 HGV, descend to FL090. Passing D15 JSV on R031 HGV, turn right 301° and descend to 8300. Crossing R206 JSV turn right 001° to intercept the LOC RWY 03R. Complete a straight-in ILS RWY 03R approach.

GENERAL Comm Failure STAR OR Tambo INTL JOHANNESBURG

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2. NOTE FOR COMMS FAIL STAR RWY21L/R

- 2.1 Hold patterns below FL110 will be conducted partially outside controlled airspace.
- 2.2 Aircraft entering TMA at FL110 and below are to hold at last assigned level, and continue on the routeing for the designated STAR.
- 2.3 In the event of a missed approach with the intention of diverting to an alternate aerodrome proceed as follows:
- Diverting to the north and northwest: VASUR 3B.
 - Diverting to the northeast: EGMEN 2B (Jet) or EXOBI 3B (Prop),
 - Diverting to the southeast: APDAK 1C.
 - Diverting to the south and southwest: RAGUL 3B.

2.4 AVAGO 1D:

Before AVAGO: Proceed to AVAGO and hold at last assigned level for a minimum 5min. Descend to FL130 in hold or maintain last assigned level if lower. Leave AVAGO on the 'After AVAGO' communication failure procedure.

After AVAGO: Continue routeing for STAR. At JS034 proceed to UVLOG and continue on the RNAV (GNSS) RWY 21L approach and intercept the ILS LOC RWY 21L.

2.5 AVAGO 2B:

Before AVAGO: Proceed to AVAGO and hold at last assigned level for minimum 5min. Descend to FL130 in hold, or maintain last assigned level if lower. Leave AVAGO on the 'After AVAGO' communication failure procedure.

After AVAGO: Continue routeing for STAR. Passing D13 JSV descend to FL090. Passing D15 JSV on 034° turn right 121° and descend to 8000. Crossing R026 JSV turn right 191° to intercept the LOC RWY 21L. Complete a straight-in ILS RWY 21L approach.

2.6 NIBEX 1D:

Before NIBEX: Proceed to NIBEX and hold at last assigned level for minimum 5min. Descend to FL130 in the hold, or maintain last assigned level if lower. Leave NIBEX on the 'After NIBEX' communication failure procedure.

After NIBEX: Continue routeing for STAR. At JS023 descend to FL090, at UVLOG descend to 8000 and continue on the RNAV (GNSS) RWY21L approach to JS3F2 and intercept the ILS RWY 21L.

2.7 NIBEX 2C:

Before NIBEX and hold at last assigned level for minimum 5min. Descend to FL130 in hold, or maintain last assigned level if lower. Leave NIBEX on the "After NIBEX" communication failure procedure.

After NIBEX: Continue routeing for STAR. Crossing R281 JSV established on 037°/ R217 WKV, descend to FL090. Passing D14.7 JSV on R217 WKV turn right 121° and descend to 8000. Crossing R025 JSV turn right 191° to intercept ILS LOC RWY 21L approach.

2.8 OKPIT 4B:

Before OKPIT: Proceed to OKPIT and hold at last assigned level for minimum 5min, then descend to FL130 in hold, or maintain last assigned level if lower. Leave OKPIT on the 'After OKPIT' communication failure procedure.

After OKPIT: Continue routeing for STAR. Passing D18 JSV INBD descend to FL090. Passing D15 JSV (OUBD) on track 034° turn left 301° and descend to 8000. Crossing R041 JSV turn left onto track 241° to intercept the LOC RWY 21L. Complete a straight-in ILS RWY 21L approach.

GENERAL Comm Failure STAR OR Tambo INTL JOHANNESBURG

10 - 14

2.9 **STANDERTON 1D:**

Before STV: Proceed to STV and hold at last assigned level for minimum 5min. Descend to FL130 in the hold, or maintain last assigned level if lower. Leave STV on the 'After STV' communication failure procedure.

After STV: Continue routeing for STAR. At STV descend to FL130. AT JS025 descend to FL090. AT ETGAV descend to 8000 and continue on the RNAV (GNSS) RWY 21L approach to JS3F2. Intercept the ILS RWY 21L.

2.10 **STANDERTON 5B:**

Before STV: Proceed to STV and hold at last assigned level for minimum 5min. Descend to FL130 in the hold, or maintain last assigned level if lower. Leave STV on the 'After STV' communication failure procedure.

After STV: Continue routeing for STAR. Established on 332°/R152 JSV and on passing D18 JSV descend to FL090. Established on R031 HGV and passing D15 JSV turn left 301° and descend to 8000. Crossing R041 JSV turn left 241° to intercept LOC RWY 21L. Complete a straight-in ILS approach and land RWY 21L.

2.11 **WITBANK 3C:**

Before WITBANK: Proceed to WIV and hold at last assigned level for minimum 5min. Descend to FL130 in hold or maintain last assigned level if lower. Leave WIV on the 'After WITBANK' communication failure procedure.

After WITBANK: Continue routeing for STAR. Passing D18 JSV descend to FL090. Passing D15 JSV on R031 HGV turn left 301° and descend to 8000. Crossing R041 JSV turn left 241° to intercept LOC RWY 21L. Complete a straight-in ILS RWY 21L approach .

GENERAL Comm failure MISAP OR Tambo INTL JOHANNESBURG

COMMUNICATION FAILURE MISSED APPROACH PROCEDURE.

1. RWY 03L

1.1 ILS Y

Climb on 034° to 9000, at D3.5 JSI turn left (Max 220kt) HDG 300°. Crossing R210 WKV turn left HDG 250° to intercept R220 WKV. At D35 WKV turn left (Max 220kt) HDG 120° and descend to 8300. Crossing R220 JSV turn left HDG 065° to intercept the localiser RWY 03L. At D13 JSI descend to 8000 and complete a straight-in ILS APCH, and land RWY03L.

Note: MISAP Climb gradient of 3.5% required to cross CTR boundary 7600 or above.

2. RWY 03R

2.1 ILS X / ILS W

Climb on 034° to 8000, at D7.3 JN/JSV turn right (Max 240kt) on 130°. Crossing R027 HG V turn right 180° to intercept 210°/R030 HG V (at normal MISAP speed). Passing D15 JSV turn right 300° crossing R200 JSV turn right 360° to intercept localiser RWY 03R. Complete a straight-in ILS APCH and land RWY 03R.

Note: MISAP Climb gradient of 5.8% required to cross CTR boundary 8000 or above.

3. RWY 21L

3.1 ILS X

Climb on 214° to 7000, at D3.5 JAI turn left (Max 240kt) HDG 125°. When established on HDG 125° climb to 8000. Crossing R222 MEV turn left HDG 070° to intercept 037°/R217. MEV (at normal MISAP climb gradient). At D7.5 MEV turn left (Max 240kt) HDG 300°. Crossing R048 JSV turn left HDG 255° to intercept the localiser for a straight in ILS APCH and land RWY 21L.

Note: MISAP Climb gradient of 4.6% required to cross CTR boundary at 8000 or above.

4. RWY 21R

4.1 ILS

Climb on 214° to 8000, at D6.8 JBI and at MNM 7000 turn right HDG 350° (MAX250 KT). Crossing R255 WKV turn right to intercept 050/R230 WKV (reduce speed to 220kt when established on radial). At D3 WKV turn right HDG 120°, crossing R027 JSV turn right HDG 184° to intercept localiser RWY 21R. Complete a straight-in ILS APCH and land RWY 21R.

Note: MISAP Climb gradient of 3.7% required to 7000.

4.2 VOR Y

Climb on 214° to 8000, Overhead JSV turn right (Max 240kt) HDG 320°. Crossing R214 WKV turn right HDG 012° to intercept 042°/R222 WKV to WKV. Overhead WKV turn right (Max 185kt) HDG 125°, crossing R027 JSV turn right HDG 185° to intercept 214°/R034 JSV by D16 JSV, establish on final approach by D11 JSV.

Note: MISAP Climb gradient of 5.1% required to cross CTR boundary 8000 or above.

5. MISSED APPROACH TO ALTERNATE AIRPORT.

In the event of a missed approach with the intention of diverting to an alternate aerodrome proceed as follows:

5.1 To the North/Northwest.

Follow the routing for the; RWY03L/R VASUR 1A SID, RWY 21L/R VASUR 1B SID.

5.2 To the East/Northwest.

Follow the routing for the; RWY03L/R NOPIP 2A SID (Jets) or EXOBI 1A SID (Props). RWY21L/R NOPIP 1B SID (Jets) or EXOBI 1B SID (Props).

5.3 To the Southeast.

Follow the routing for the ; RWY 03L/R APDAK 1A SID, RWY21L/R APDAK 1B SID.

5.4 To the West/Southeast.

Follow the routing for the; RWY 03L/R RAGUL 1A SID, RWY21L/R RAGUL 1B SID.

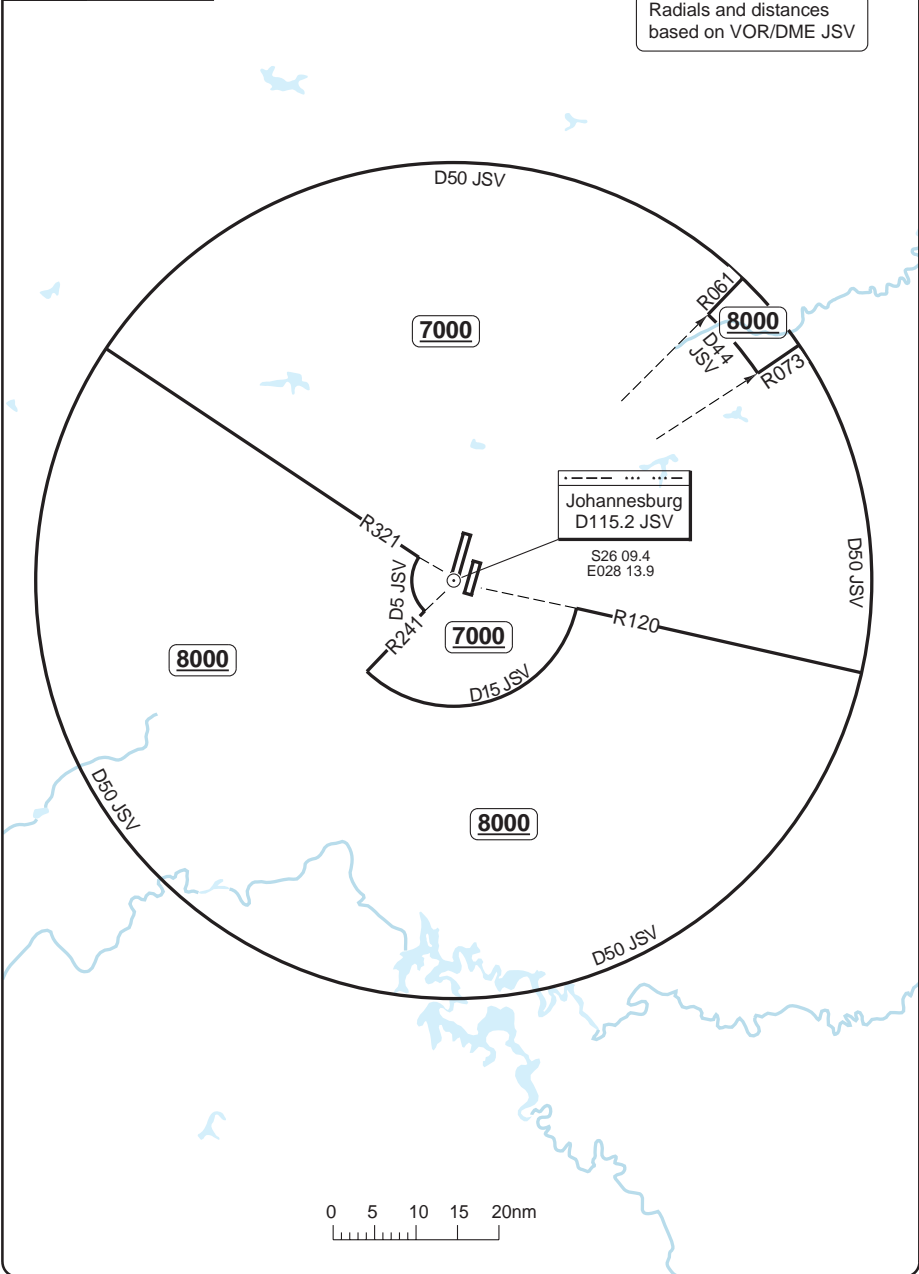
RADAR Minimum Altitudes

O R Tambo INTL JOHANNESBURG

Johannesburg APP 123.7 W 124.5 S/E 134.4 N	O R Tambo DIR 121.4	TWR 118.1 W 118.6 E 121.9	GND 121.9	APN ARR 122.65	CLR 121.7 121.9	ATIS 126.2 131.725 (D) 115.2
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TL ATC AD Elev 5558

Radials and distances based on VOR/DME JSV



20 - 1

Change: ICAO code

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Additional Landing Minima

O R Tambo INTL JOHANNESBURG

ILS Y RWY 03L

ACFT	Circling a	Circling b
EU OPS	A 6280 (715) 1.5km	6280 (715) 1.5km
	B 6290 (726) 1.6km	6290 (726) 1.6km
	C 6300 (738) 2.4km	6410 (852) 2.4km
	D 6320 (759) 3.6km	6410 (852) 3.6km

ILS+DME 2.5% only.

a East of AD.**b** West of AD.

ILS X RWY 03R

ACFT	Circling
EU OPS	A 6830 (1272) 5.0km
	B 6850 (1285) 5.0km
	C 6860 (1295) 5.0km
	D 6870 (1305) 5.0km

ILS+DME 2.5% only.

ILS W RWY 03R

ACFT	Circling
EU OPS	A 6830 (1272) 5.0km
	B 6850 (1285) 5.0km
	C 6860 (1295) 5.0km
	D 6870 (1305) 5.0km

ILS+DME 2.5% only.

ILS X RWY 21L

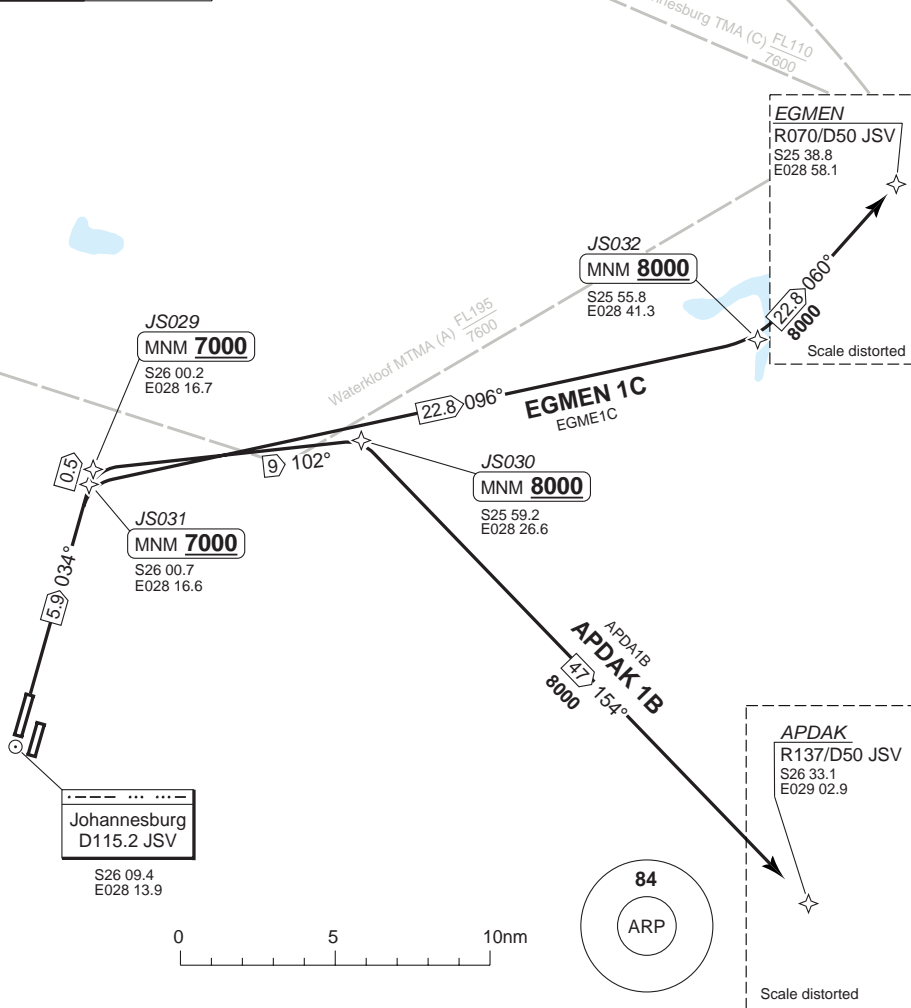
ACFT	Circling
EU OPS	A 6700 (1140) 1.5km
	B 6710 (1151) 1.6km
	C 6720 (1161) 2.4km
	D 6740 (1175) 3.6km

ILS+DME 2.5% only.

SID RWY 03L **RNAV** GNSS East O R Tambo INTL JOHANNESBURG

O R Tambo CLR 121.7 121.9	GND 121.9	TWR 118.1 W 118.6 E 121.9	Johannesburg APP 123.7 W 124.5 S/E 134.4 N	O R Tambo ATIS 126.2 131.725 (D) 115.2
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TA 8000 AD Elev 5558



30 - 1

NOTE: Cross CTR boundary at MNM 8000.
COM: At 6500 contact Johannesburg APP.
ALT RESTRICTION: Climb to **FL90**.

SID	MNM Climb	Routeing	Altitudes
APDAK 1B	4.1% to FL90	Climb on 034° - JS029 - JS030 - APDAK.	JS029 MNM 7000 JS030 MNM 8000
EGMEN 1C	4.1% to CTR bdry	Climb on 034° - JS031 - JS032 - EGMEN.	JS031 MNM 7000 JS032 MNM 8000

COM FAIL: See pages 10 - 8 to 10 - 10

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Change: ICAO code

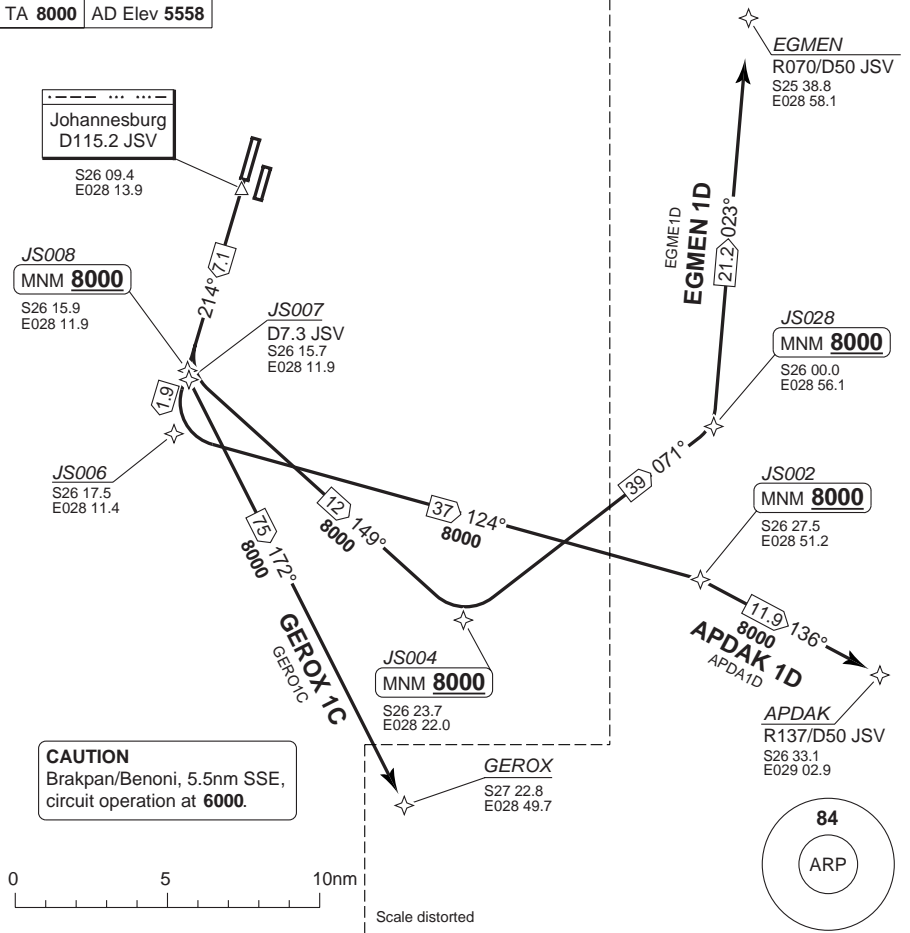
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SID RWY 21R **RNAV** GNSS East O R Tambo INTL JOHANNESBURG

O R Tambo CLR 121.7 121.9	GND 121.9	TWR 118.1 W 118.6 E 121.9	Johannesburg APP 123.7 W 124.5 S/E 134.4 N	O R Tambo ATIS 126.2 131.725 (D) 115.2
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TA **8000** AD Elev **5558**

30 - 2



NOTE: MNM Climb gradient is to CTR boundary. Cross bdry MNM 8000.

COM: At 6500 contact Johannesburg APP.

ALT RESTRICTION: EGME1D: Climb to **FL90**.

APDAK 1D, GEROX 1C: Climb to **8000**.

SID	MNM CLIMB	Routeing	Altitudes
APDAK 1D	3.8%	Climb on 214° - JS006 - JS002 - APDAK.	JS002 MNM 8000
EGME1D	3.8%	Climb on 214° - JS008 - JS004 - JS028 - EGME1D.	JS008 MNM 8000 JS004 MNM 8000 JS028 MNM 8000
GEROX 1C	4.2%	Climb on 214° - JS007 - GEROX.	

COM FAIL: See pages 10 - 8 to 10 - 10

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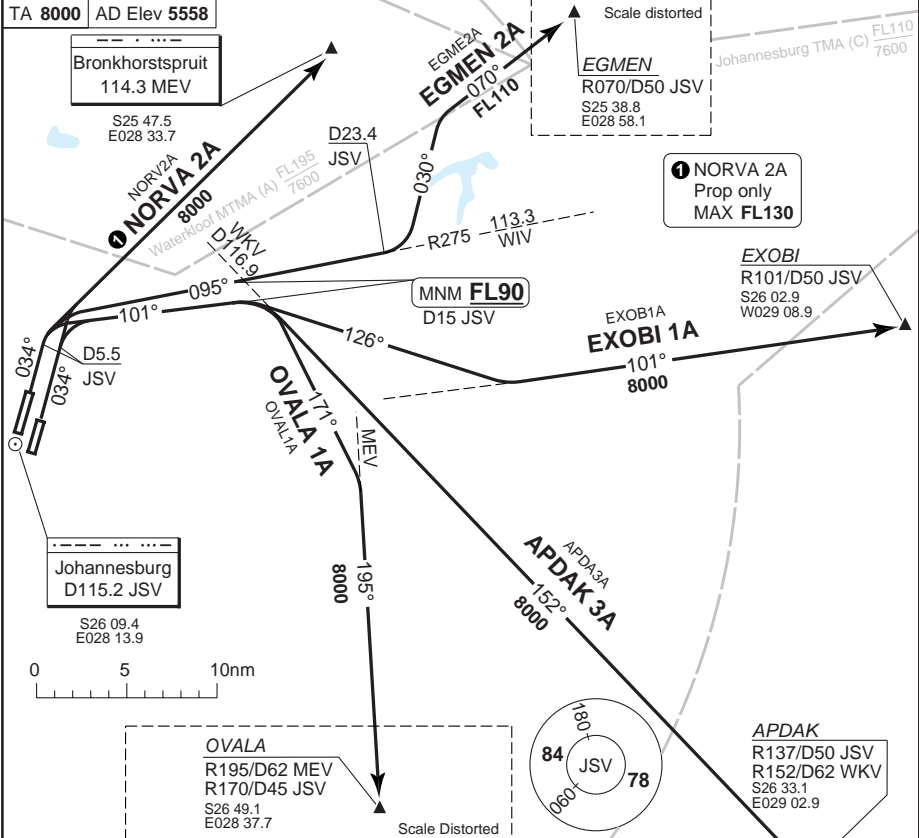
Change: ICAO code

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SID RWY 03L/R East

O R Tambo INTL JOHANNESBURG

O R Tambo CLR 121.7 121.9	GND 121.9	TWR 118.1 W 118.6 E 121.9	Johannesburg APP 123.7 W 124.5 S/E 134.4 N	O R Tambo ATIS 126.2 131.725 (D) 115.2
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30 - 3

NOTE: MNM Climb gradient is to CTR Boundary. Cross bdry MNM 8000.
COM: At 6500 contact Johannesburg APP.
ALT RESTRICTION: Climb to **FL90**.

SID	RWY	MNM Climb	Routeing	Altitudes
(INITIAL CLIMB)				
APDAK 3A	03L	4.5%	Turn right 101° - intcp R152 WKV - APDAK.	CTR bdry MNM 8000 D15 JSV MNM FL90
EGMEN 2A	03L	4.5%	Turn right - intcp R275 WIV - at D23.4 JSV - turn left - 030° - intcp R070 JSV - EGMEN	
EXOBI 1A	03L/R	4.2%	Turn right to 101° - D15 JSV turn right - 126° - intcp R101 JSV - EXOBI.	
NORVA 2A	03L/R	4.2%	Turn right - MEV	CTR bdry MNM 8000
OVALA 1A	03L/R	4.1%	Turn right - 101° - at D15 JSV turn right - 171° - intcp R195 MEV - OVALA.	CTR bdry MNM 8000 D15 JSV MNM FL90

COM FAIL: See pages 10 - 8 to 10 - 10

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SID RWY 03L/R West

O R Tambo INTL JOHANNESBURG

O R Tambo CLR 121.7 121.9	GND 121.9	TWR 118.1 W 118.6 E 121.9	Johannesburg APP 123.7 W 124.5 S/E 134.4 N	O R Tambo ATIS 126.2 131.725 (D) 115.2
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TA 8000 AD Elev 5558

1 NESAN 1A
RNAV required

VASUR
R351/D40 JSV
S25 33.8
E027 53.6

NESAN
R010/D40 JSV
S25 29.8
E028 07.1

Lanseria TMA (C) 7600
7000

VASU3A
351°
8000

NESAN 1A
8000

Waterloof
D116.9 WKV
S25 50.0
E028 13.2

30 - 4



Scale Distorted

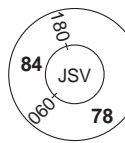
RAGUL
R241/D50 WKV
S26 26.9
E027 34.7

RAGU3A
241°
8000

Grasmere
D115.5 GAV
S26 30.9
E027 40.6

P68
Modderfontein
1000 GND
8000

At 6000
or D3 JSV
whichever later



Johannesburg
D115.2 JSV
S26 09.4
E028 13.9

NOTE: MNM Climb gradient is to CTR Boundary. Cross bdry MNM 8000.

COM: At 6500 contact Johannesburg APP.

NOISE ABATEMENT: NESAN 1A available 20-04.

ALT RESTRICTION: Climb to **8000**.

SID	MNM CLIMB	Routeing	Altitudes
(INITIAL CLIMB)		Climb on 034° - follow SID.	
GRASMERE 5B	5%	At D3 JSV or 6100, whichever is later, turn left - 261° - at D13 JSV turn left - GAV.	CTR bdry MNM 8000
NESAN 1A	4.2%	At D8 JSV - turn left - dct NESAN.	
RAGUL 3A	4.4%	At D5.5 JSV - turn left 281° - intcp R241 WKV - RAGUL.	
VASUR 3A	4.2%	At D5.5 JSV - turn left 311° - intcp R351 JSV - VASUR.	

COM FAIL: See pages 10 - 8 to 10 - 10

Change: ICAO code

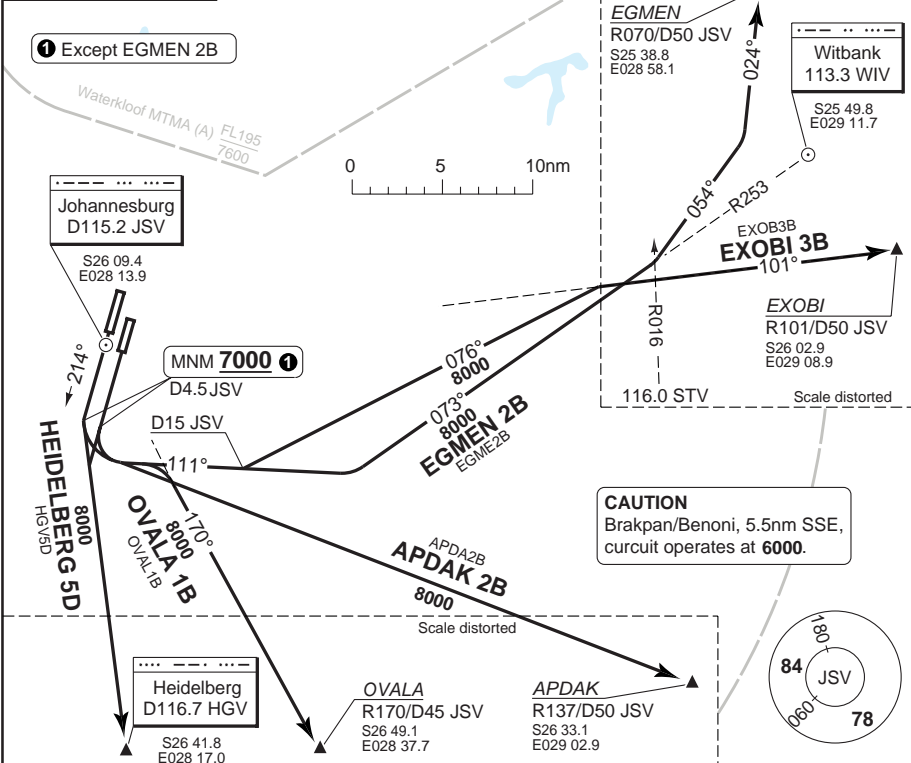
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SID RWY 21L/R EAST

O R Tambo INTL JOHANNESBURG

O R Tambo CLR 121.7 121.9	GND 121.9	TWR 118.1 W 118.6 E 121.9	Johannesburg APP 123.7 W 124.5 S/E 134.4 N	O R Tambo ATIS 126.2 131.725 (D) 115.2
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TA 8000 | AD Elev 5558



NOTE: MNM Climb gradient is to CLR Boundary. Cross bdry MNM 8000.

COM: At 6500 contact Johannesburg APP.

ALT RESTRICTION: Climb to **8000**.

SID	RWY	MNM Climb	Routeing	Altitudes
(INITIAL CLIMB) Except APDAK 1C			Climb on 214° - at D4.5 JSV - follow SID.	
APDAK 2B	21R	4.2%	Climb on 214° - at D4.5 JSV turn left - APDAK.	D4.5 JSV MNM 7000 CTR bdry MNM 8000
EG MEN 2B	21R	4.3%	Turn left to 111° - intcp R253 WIV - at crossing R016 STV turn left - 054° - intcp R024 STV - EG MEN.	CTR bdry MNM 8000
EXOBI 3B	21L/R	4.2%	Turn left to 111° - at D15 JSV turn left - 076° - intcp R101 JSV - EXOBI.	D4.5 JSV MNM 7000 CTR bdry MNM 8000
HEIDELBERG 5D	21L/R	4.2%	Turn left - HGV.	
OVALA 1B	21L/R	4.2%	Turn left 111° - intcp R170 JSV - OVALA.	

COM FAIL: See pages 10 - 8 to 10 - 10

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30 - 5

SID RWY 21L/R WEST

O R Tambo INTL JOHANNESBURG

O R Tambo CLR 121.7 121.9	GND 121.9	TWR 118.1 W 118.6 E 121.9	Johannesburg APP 123.7 W 124.5 S/E 134.4 N	O R Tambo ATIS 126.2 131.725 (D) 115.2
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TA 8000 AD Elev 5558

① GAV6C, LIV1C
Turboprop only

Lanseria
D117.4 LIV
S25 56.9
E027 54.8

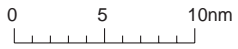
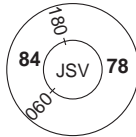
VASUR
R015/D23 LIV
S25 33.8
E027 53.6

Johannesburg
D115.2 JSV
S26 09.4
E028 13.9

Grasmere
115.5 GAV
S26 30.9
E027 40.6

RAGUL
R262/D40 JSV
S26 26.9
E027 34.7

CAUTION
ACFT must remain well
clear of OBST west of AD



NOTE: MNM Climb gradient is to CTR Boundary. Cross bndy MNM 8000.

COM: At 6500 contact Johannesburg APP.

ALT RESTRICTION: Climb to **8000**.

SID	RWY	MNM CLIMB	Routeing	Altitude
(INITIAL CLIMB)	RWY 21L: Climb on 214° - follow SID. RWY 21R: Ahead to JSV - follow SID			
GRASMERE 6C	21R	5.3%	JSV - turn right 301° (turn within D2.5 JSV) - at D13 JSV turn left - GAV.	CTR bdry MNM 8000
LANSERIA 1C	21R	5.3%	JSV - turn right 301° (turn within D2.5 JSV) - at D13 JSV turn right direct - LIV - intop R015 LIV - VASUR.	
RAGUL 3B	21L/R	4.4%	At D9 turn right 291° - turn left - intop R262 JSV - RAGUL.	
VASUR 3B	21L/R	4.2%	At D9 JSV turn right - 291° - at D15 JSV turn right - 351° - intop R198 LIV - LIV - R015 LIV - VASUR.	

COM FAIL: See pages 10 - 8 to 10 - 10

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30 - 6

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STAR RWY 03R **RNAV** GNSS East O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

TL ATC AD Elev 5558

Waterloof MTMA (A) FL195 / 7600

NOTE
 If unable to comply with STAR, notify ATC.
 STAR must be announced in operation on ATIS.
 Radar required.

SPEED
 On LOC maintain 180kt until D10 JSV.
 MAX 150kt while passing OM.

COM FAIL
 See page 10-11 and 10-12

40 - 1

Johannesburg
 D115.2 JSV
 S26 09.4
 E028 13.9

JS017
 MAX 210kt
MNM 8000
 S26 30.9
 E028 20.0

JS016
MNM 8000
 S26 36.2
 E028 35.4

MAX 250kt
 R152/D47 JSV
 Standerton
 116.0 STV
 S26 41.8
 E028 52.0

JS018
 S26 33.7
 E028 28.2

ETLIG
 S26 41.8
 E028 17.0

Johannesburg TMA (C) FL110 / 7600

MAX FL290
 FL90
 351°
 13nm

STANDERTON 1C
 8000
 STV1C
 309°

IBKUS 1B
 8000
 342°

AVILO 1B
 8000
 350°

IBKUS
 MAX 250kt
 R162/D57 JSV
 S26 55.7
 E028 51.3

AVILO
 MAX 250kt
 S26 58.9
 E028 43.3



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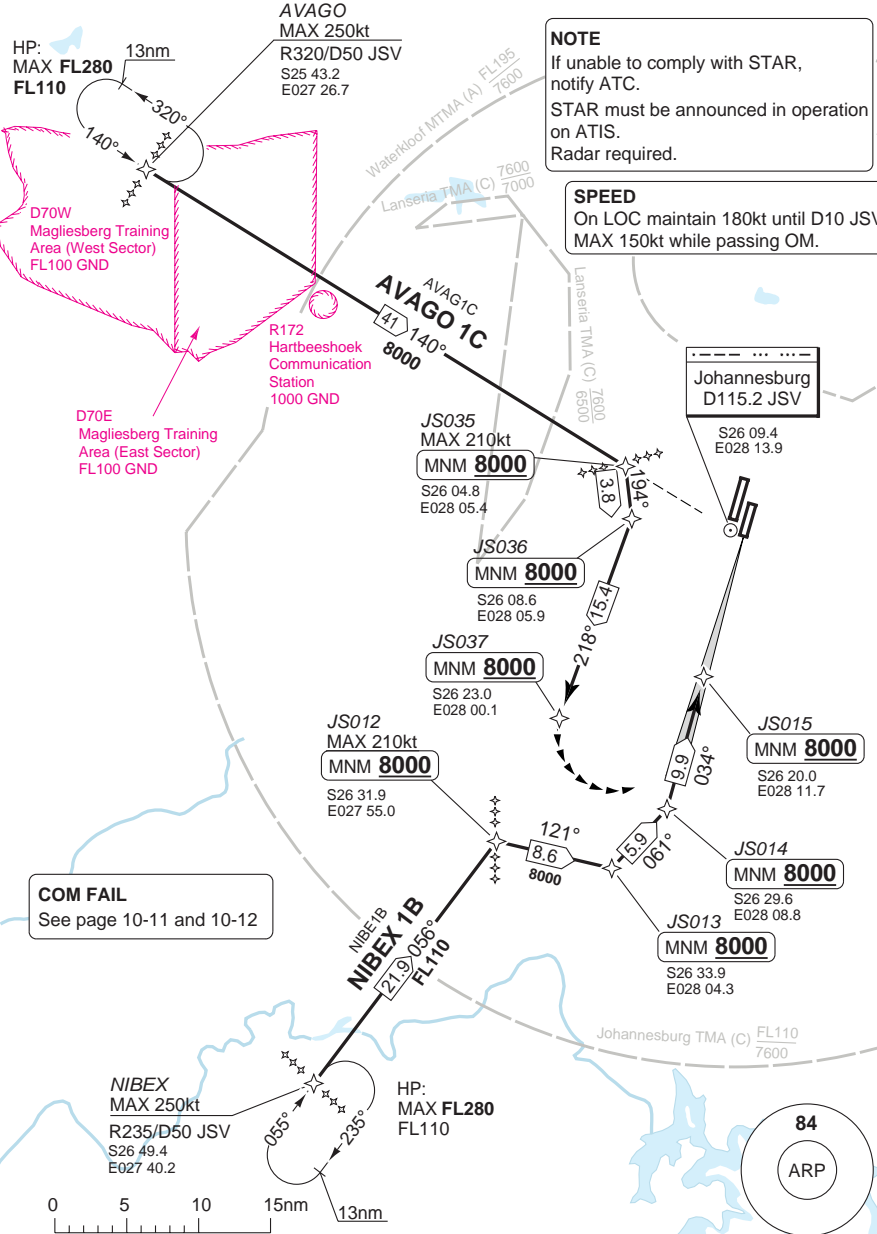
Change: ICAO code

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STAR RWY 03R **RNAV** GNSS West O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

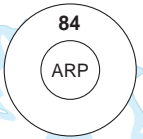
TL ATC | AD Elev 5558



NOTE
 If unable to comply with STAR, notify ATC.
 STAR must be announced in operation on ATIS.
 Radar required.

SPEED
 On LOC maintain 180kt until D10 JSV.
 MAX 150kt while passing OM.

COM FAIL
 See page 10-11 and 10-12



40 - 2

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Change: ICAO code

THIS CHART IS A PART OF NAVIGRAPH NDAC AND IS INTENDED FOR FLIGHT SIMULATION USE ONLY

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9					115.2

TL ATC AD Elev 5558

AVAGO 1
MAX 250kt
R320/D50 JSV
S25 43.2
E027 26.7

D70W
Magliesberg Training Area (West Sector)
FL100 GND

D70E
Magliesberg Training Area (East Sector)
FL100 GND

R172
Hartbeeshoek Communication Station
1000 GND

AVAGO 1D
MAX 210kt
MNM 8000
S25 57.3
E028 06.4

JS034
MAX 210kt
MNM 8000
S25 53.3
E028 11.3

UVLOG
MNM 8000

NOTE
If unable to comply with STAR, notify ATC.
STAR must be announced in operation on ATIS.
RADAR required.

SPEED
On LOC maintain 180kt until D10 JSV
MAX 150kt while passing OM.

ETGAV
MNM 8000
S25 57.4
E028 27.4

JS033
MAX 210kt
MNM 8000
S26 04.1
E028 04.3

P68
Modderfontein
1000 GND

Johannesburg
D115.2 JSV
S26 18.7
E028 24.7

JS025
MAX 210kt
MNM 8000
S26 18.7
E028 24.7

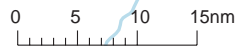
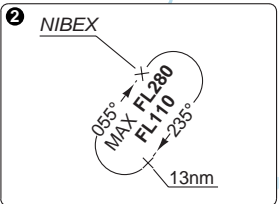
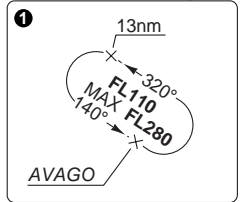
JS023
MAX 210kt
MNM 8000
S26 21.8
E028 30.6

NIBEX 1D
MAX 210kt
MNM 8000
S26 09.4
E028 13.9

STANDERTON 1D
MAX 250kt
R152/D47 JSV
S26 41.8
E028 52.0

NIBEX 2
MAX 250kt
R235/D50 JSV
S26 49.4
E027 40.2

Standerton
116.0 STV
S26 41.8
E028 52.0



STAR RWY 03R West

O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

TL ATC AD Elev 5558

Lanseria TMA (C) 7600
6500

Johannesburg
D115.2 JSV

S26 09.4
E028 13.9

NOTE

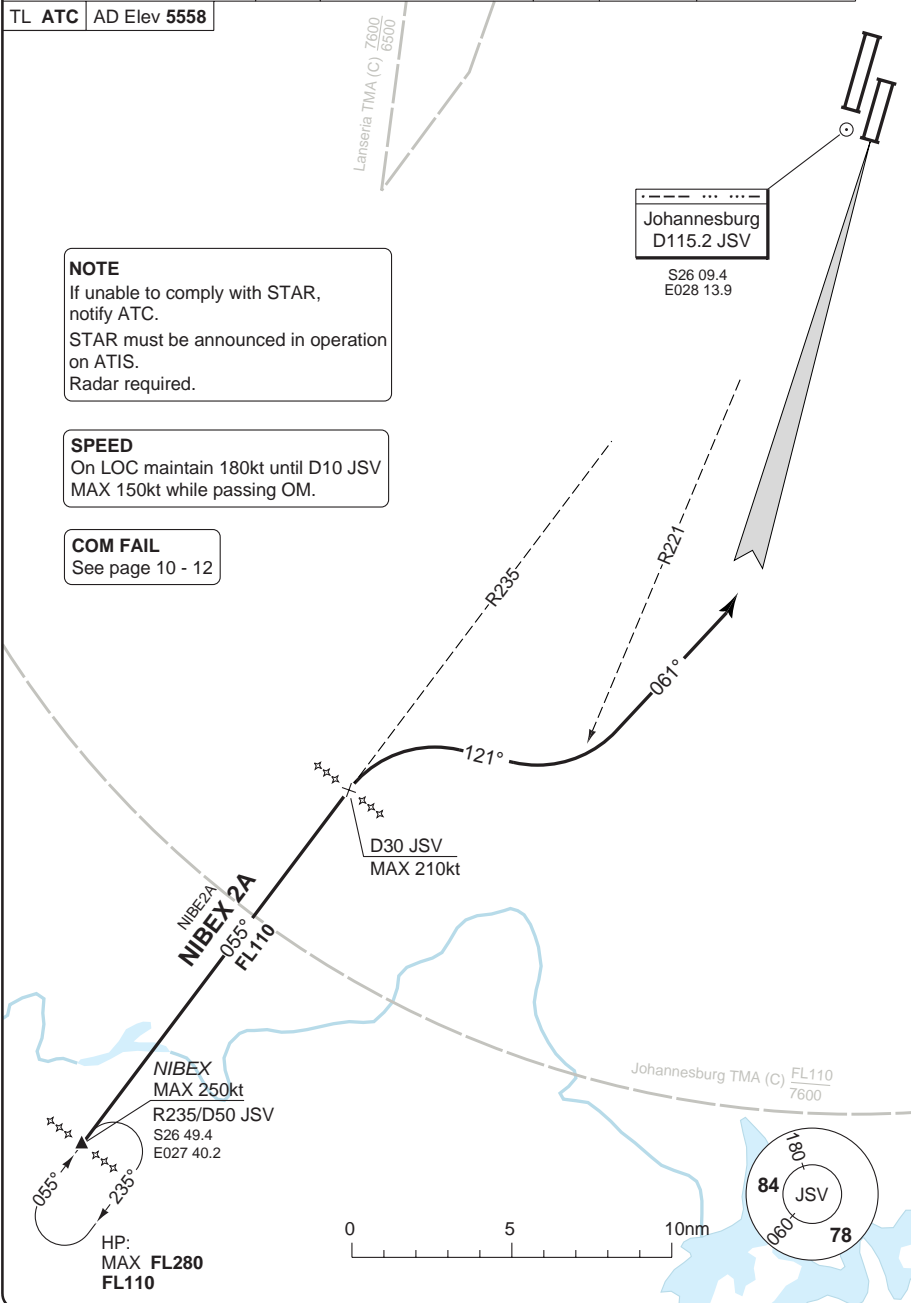
If unable to comply with STAR, notify ATC.
STAR must be announced in operation on ATIS.
Radar required.

SPEED

On LOC maintain 180kt until D10 JSV
MAX 150kt while passing OM.

COM FAIL

See page 10 - 12



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40 - 5

Change: ICAO code

THIS CHART IS A PART OF NAVIGRAPH NDAC AND IS INTENDED FOR FLIGHT SIMULATION USE ONLY

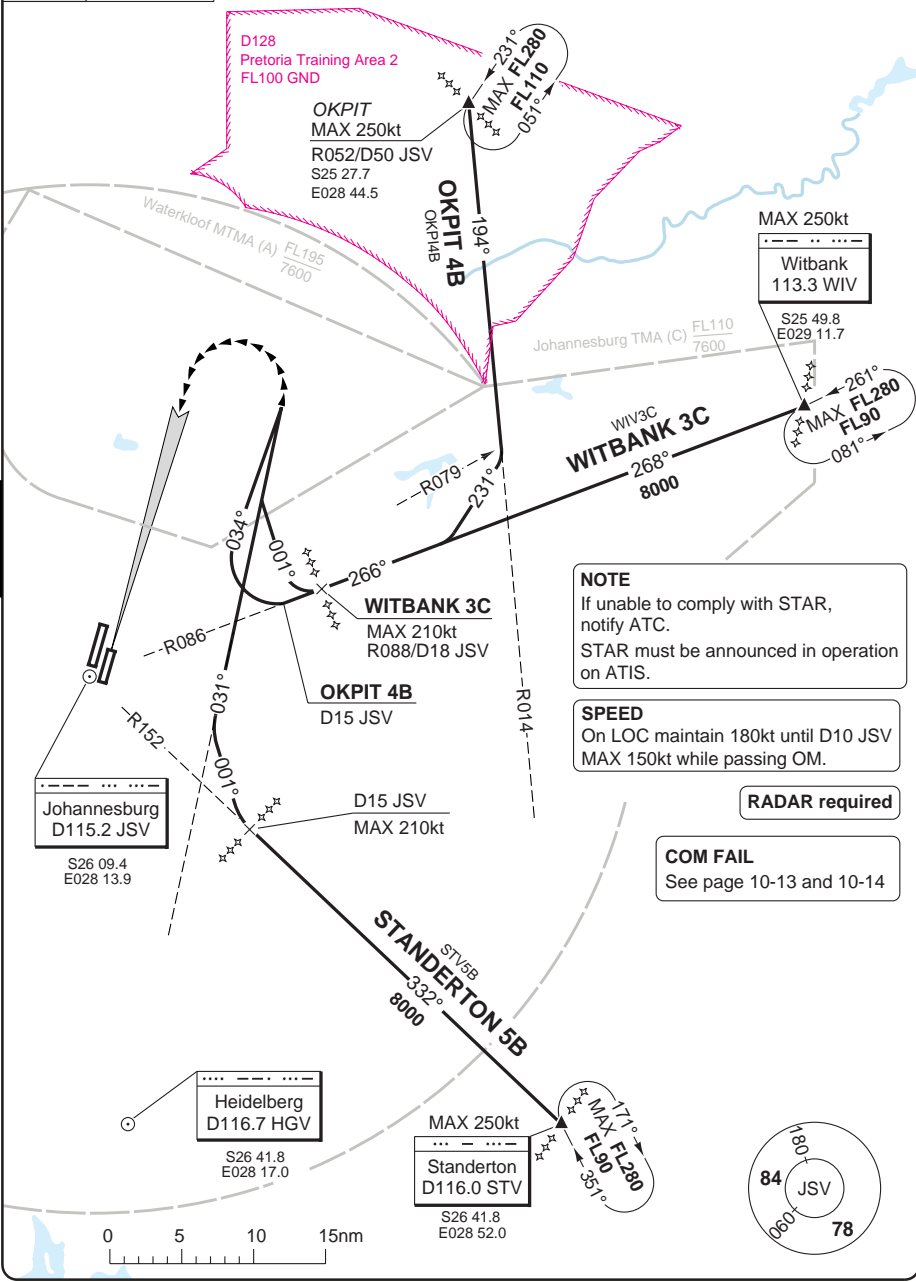
STAR RWY 21L East

O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

TL ATC | AD Elev 5558

40 - 6



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Change: ICAO code

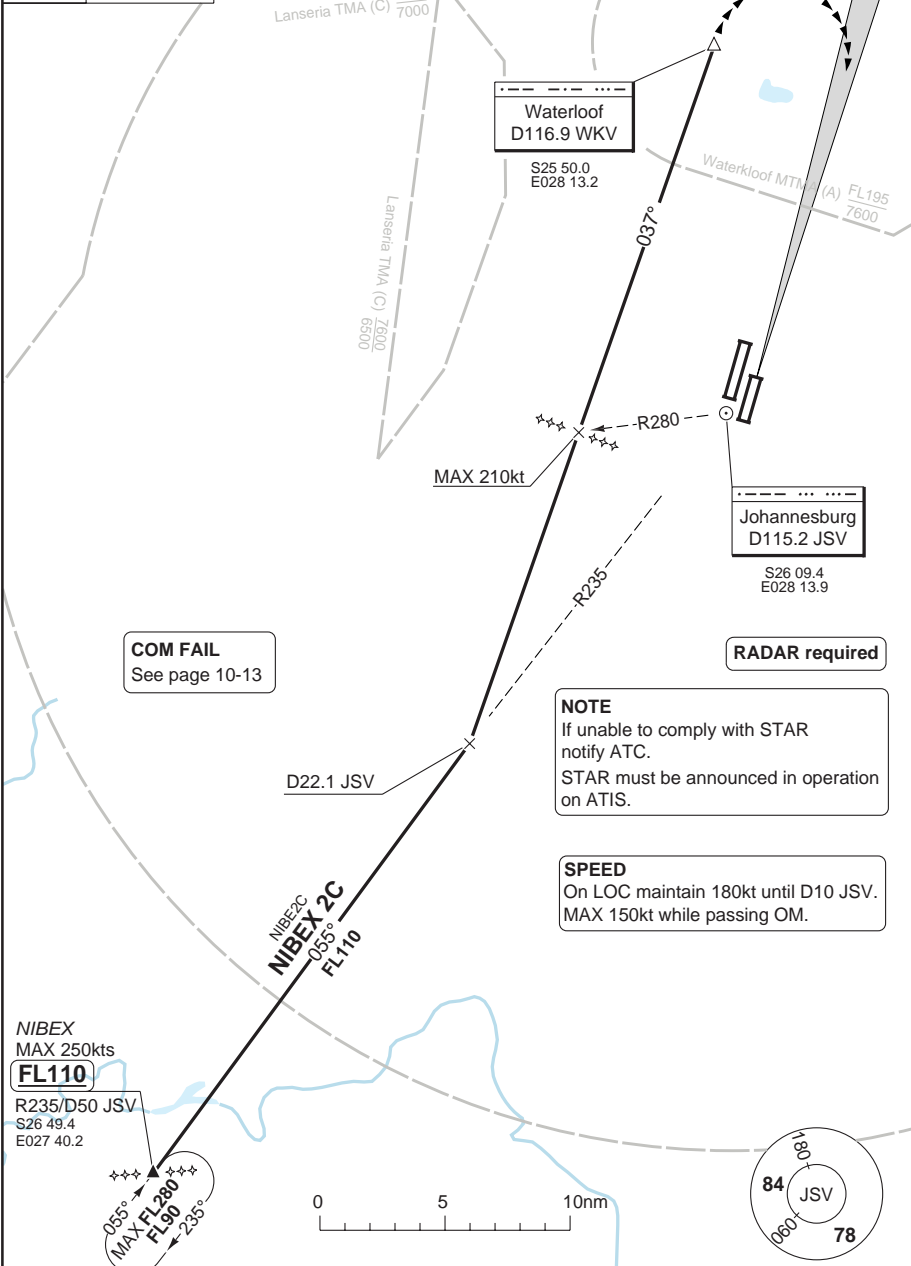
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STAR RWY 21L West

O R Tambo INTL JOHANNESBURG

Johannesburg APP 123.7 West 124.5 South/East		DIR 121.4	TWR 118.1 West 118.6 East 121.9	GND 121.9	APN ARR 122.65	ATIS 126.2 131.725 (D) 115.2
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TL ATC AD Elev 5558



COM FAIL
See page 10-13

RADAR required

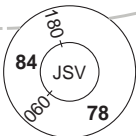
NOTE
If unable to comply with STAR
notify ATC.
STAR must be announced in operation
on ATIS.

SPEED
On LOC maintain 180kt until D10 JSV.
MAX 150kt while passing OM.

40 - 7

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NIBEX
MAX 250kts
FL110
R235/D50 JSV
S26 49.4
E027 40.2



STAR RWY 03 L/R

O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR	GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West 118.6 East 121.9	121.9	122.65	126.2	131.725 (D) 115.2

TL ATC | AD Elev 5558

NOTE

If unable to comply with STAR, notify ATC.
 STAR must be announced in operation on ATIS.
 Radar required.

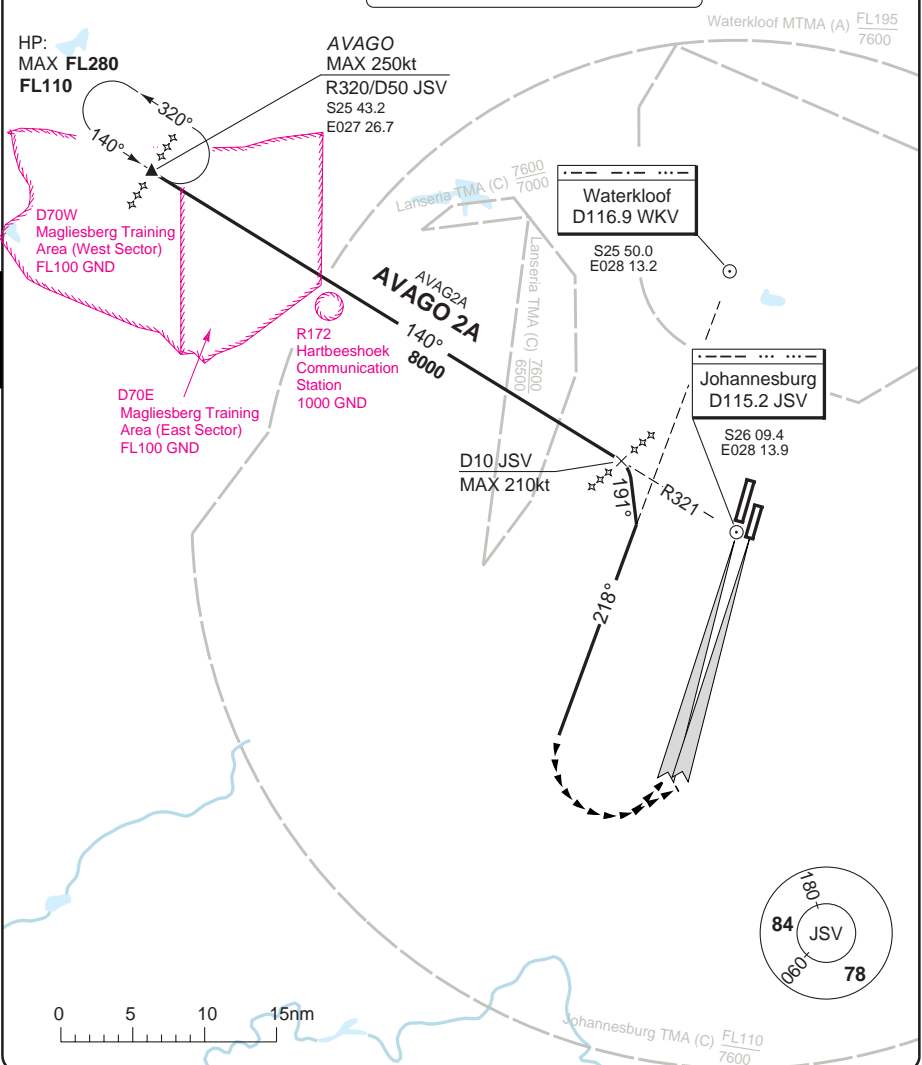
COM FAIL

See page 10-11 and 10-12

SPEED

On LOC maintain 180kt until D10 JSV.
 MAX 150kt while passing OM.

40 - 8



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Change: ICAO code

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STAR RWY 21 L/R

O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

TL ATC | AD Elev 5558

COM FAIL
See page 10 - 13

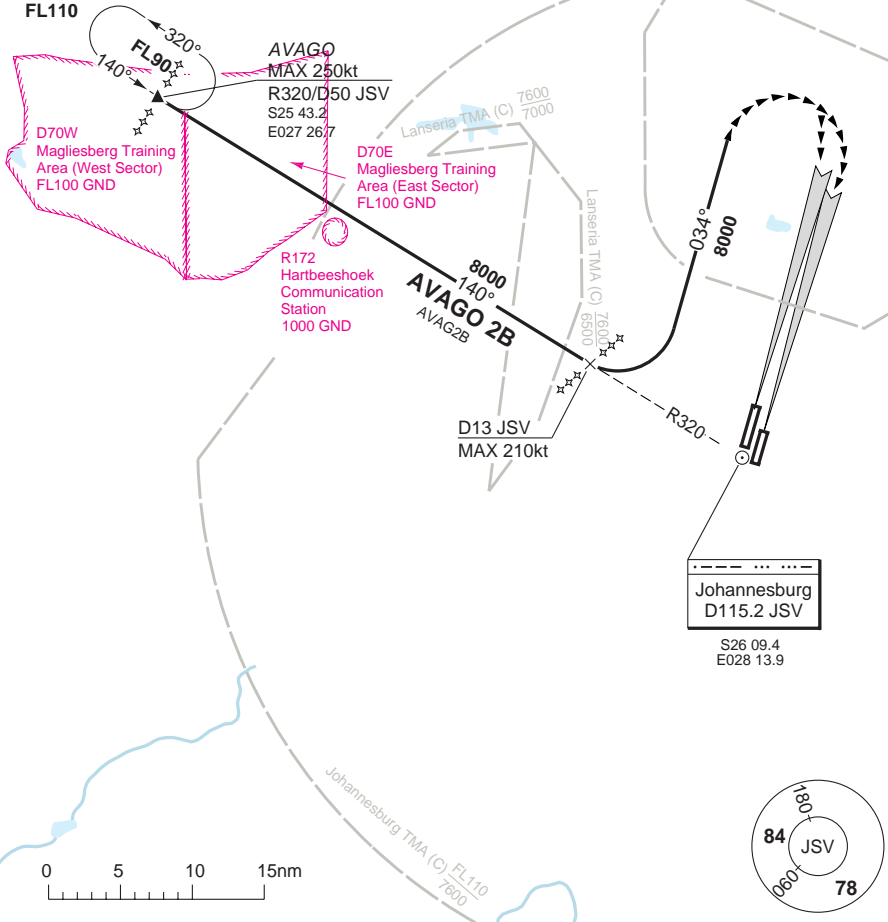
NOTE

If unable to comply with STAR, notify ATC.
 STAR must be announced in operation on ATIS.
 Radar required.

SPEED

On LOC maintain 180kt until D10 JSV.
 MAX 150kt while passing OM.

HP:
 MAX FL280
 FL110



40 - 9

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Reverse side blank

Change: ICAO code

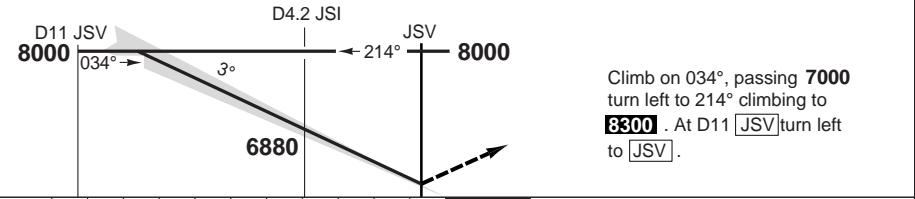
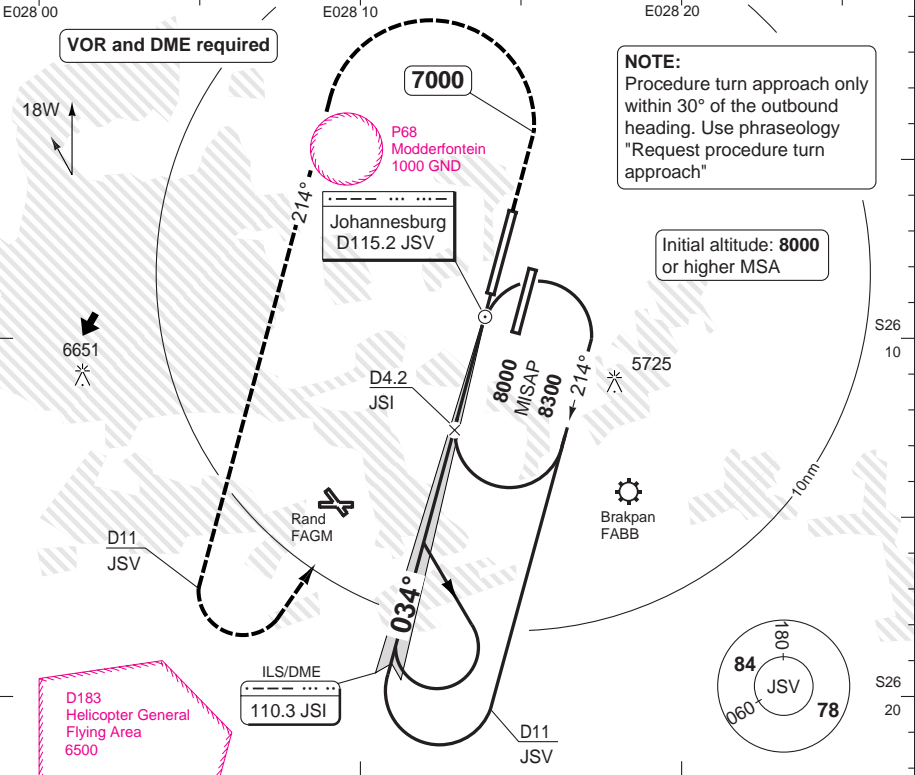
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ILS Z RWY 03L

O R Tambo INTL JOHANNESBURG

Johannesburg APP 123.7 West 124.5 South/East		DIR 121.4	TWR 118.1 West 118.6 East 121.9	GND 121.9	APN ARR 122.65	ATIS 126.2 131.725 (D) 115.2	
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ILS/DME 110.3 JSI	FAT 034°	THR Elev 5558	AD Elev 5558	TL ATC	TA 8000
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nm	11	10	9	8	7	6	5	4	3	2	1	0	TCH 54
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ACFT	CAT II	ILS+DME	Circling a	Circling b	a East of AD.	b West of AD.	LDA 4418x60 14494x197ft P 3°
A	RA 87 300m	5760 (200) 550m	6050 (492) 1.5km	6070 (512) 1.5km			 FALS
B			6060 (500) 1.6km	6070 (512) 1.6km			
C			6250 (692) 2.4km	6410 (852) 2.4km			
D			6260 (700) 3.6km	6410 (852) 3.6km			

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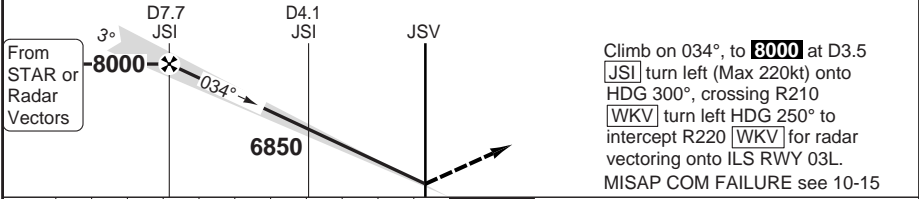
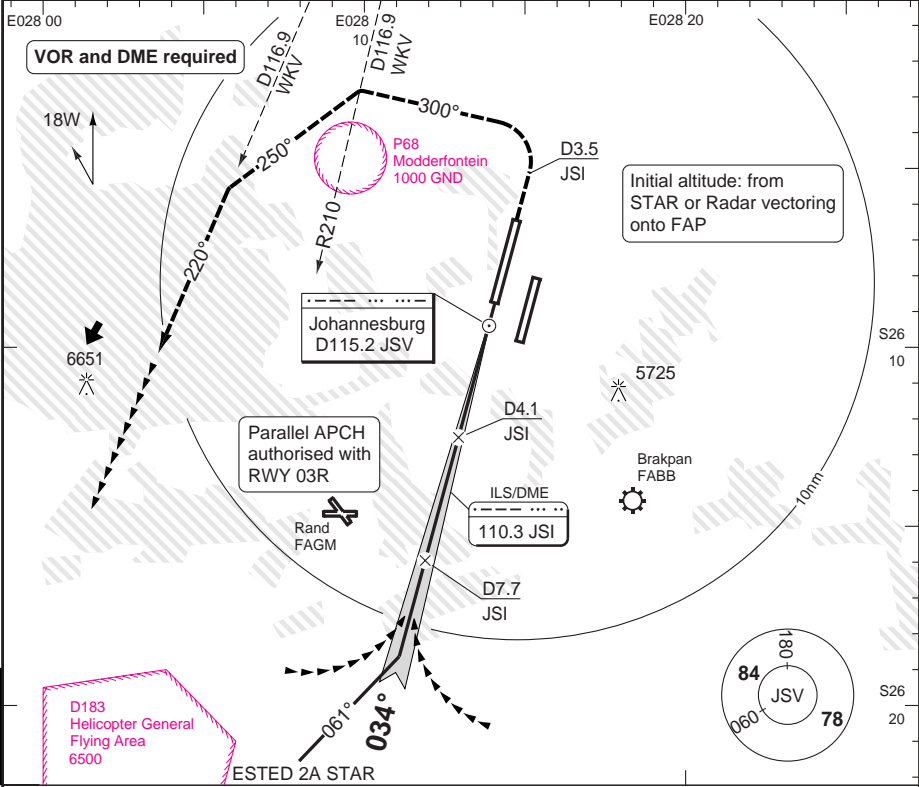
50 - 1

ILS Y RWY 03L

O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

ILS/DME	110.3 JSI	FAT 034°	THR Elev	5558	AD Elev	5558	TL ATC	TA	8000
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nm	11	10	9	8	7	6	5	4	3	2	1	0	TCH 54
ACFT	CAT II 3.5%		ILS+DME 3.5%		ILS+DME 2.5%		Circling a c		Circling b c				LDA 4418x60 14494x197ft P 3° L/R
A	RA 87 300m		5760 (200) 550m		6280 (715) 1500m		6050 (492) 1.5km		6070 (512) 1.5km				
B	RA 87 300m		5760 (200) 550m		6290 (726) 1500m		6060 (500) 1.6km		6070 (512) 1.6km				
C	RA 86 300m		5760 (201) 550m		6300 (738) 2400m		6250 (692) 2.4km		6410 (852) 2.4km				
D/DL	RA 86 300m		5760 (201) 550m		6320 (759) 2400m		6260 (700) 3.6km		6410 (852) 3.6km				

- a** East of AD.
- b** West of AD.
- c** ILS+DME 2.5% circling see 51-1.

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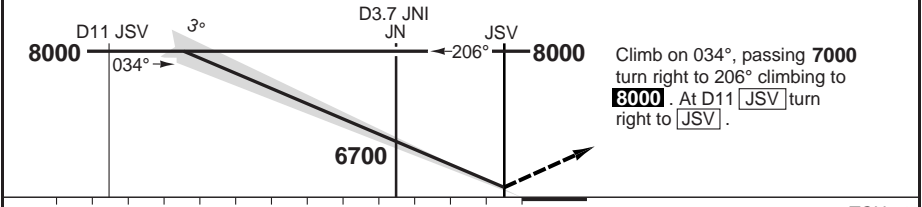
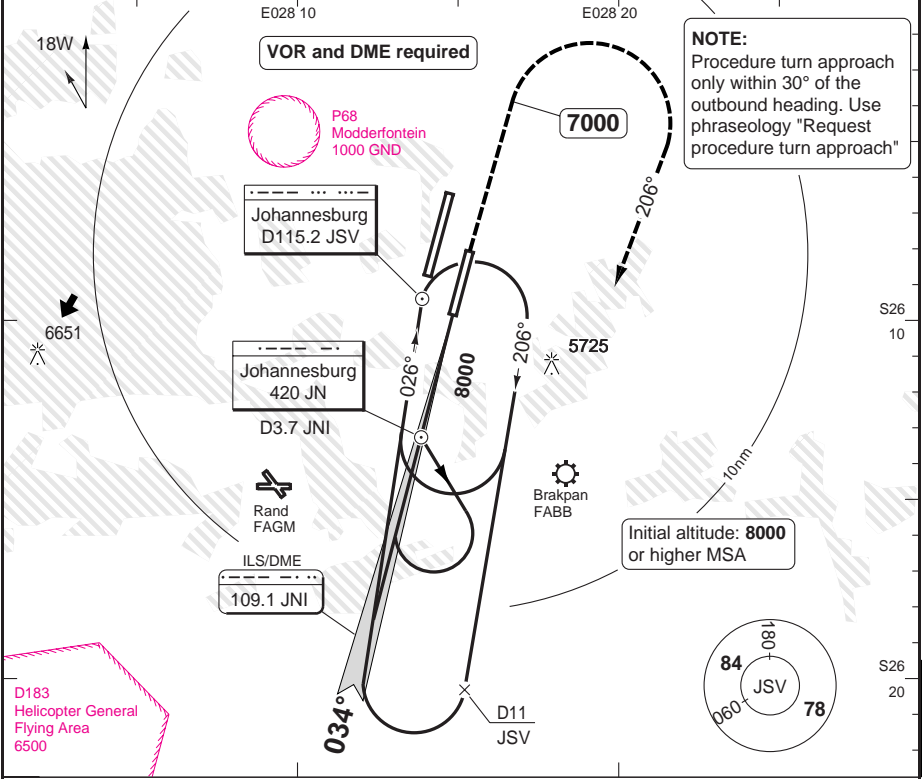
FALS

ILS Z RWY 03R

O R Tambo INTL JOHANNESBURG

Johannesburg APP 123.7 West 124.5 South/East		DIR 121.4	TWR 118.1 West 118.6 East 121.9	GND 121.9	APN ARR 122.65	ATIS 126.2 131.725 (D) 115.2
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ILS/DME 109.1 JN1	FAT 034°	THR Elev 5510	AD Elev 5558	TL ATC	TA 8000
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				TCH 59										
nm	13	12	11	10	9	8	7	6	5	4	3	2	1	0
ACFT	CAT II	ILS+DME	Circling a	Circling b	a East of AD. b West of AD.		LDA 3400x60 11154x196ft P 3° L/R							
A	RA 97 300m	5710 (200) 550m	6050 (492) 1.5km	6070 (512) 1.5km										
B			6060 (500) 1.6km	6070 (512) 1.6km										
C			6250 (692) 2.4km	6410 (852) 2.4km										
D			6260 (700) 3.6km	6410 (852) 3.6km										

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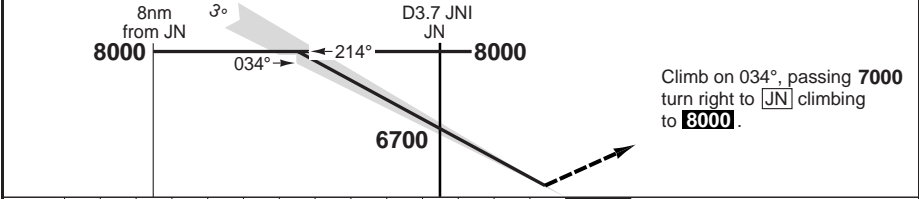
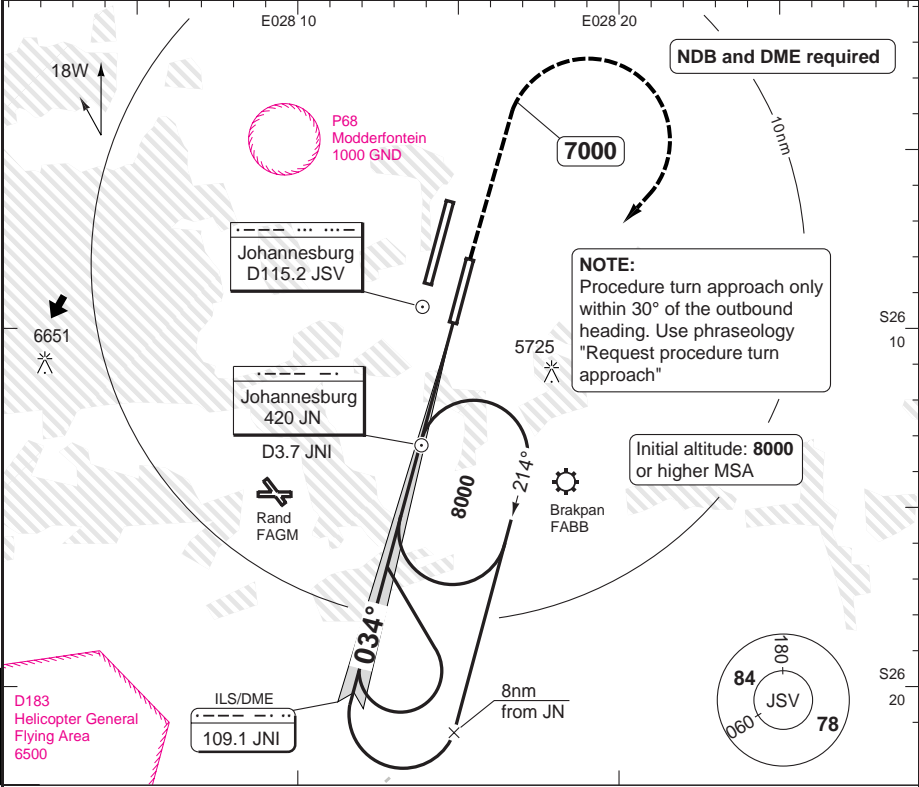
50 - 3

ILS Y RWY 03R

O R Tambo INTL JOHANNESBURG

Johannesburg APP 123.7 West 124.5 South/East		DIR 121.4	TWR 118.1 West 118.6 East 121.9	GND 121.9	APN ARR 122.65	ATIS 126.2 131.725 (D) 115.2
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ILS/DME 109.1 JNB	FAT 034°	THR Elev 5510	AD Elev 5558	TL ATC	TA 8000
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nm	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	TCH 59
ACFT	CAT II		ILS+DME		Circling a		Circling b		a East of AD.		b West of AD.		LDA 3400x60 11154x196ft P 3° L/R			
A	RA 97 300m		5710 (200) 550m		6050 (492) 1.5km		6070 (512) 1.5km									
B					6060 (500) 1.6km		6070 (512) 1.6km									
C					6250 (692) 2.4km		6410 (852) 2.4km									
D					6260 (700) 3.6km		6410 (852) 3.6km									

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Change: ICAO code, minima

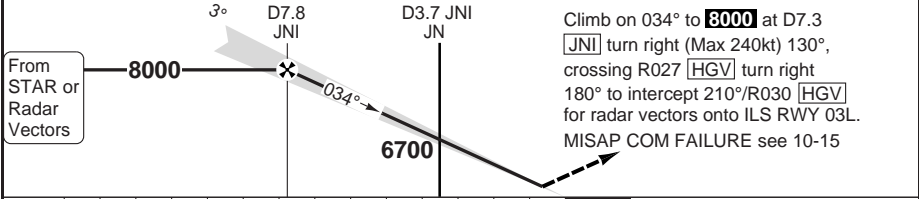
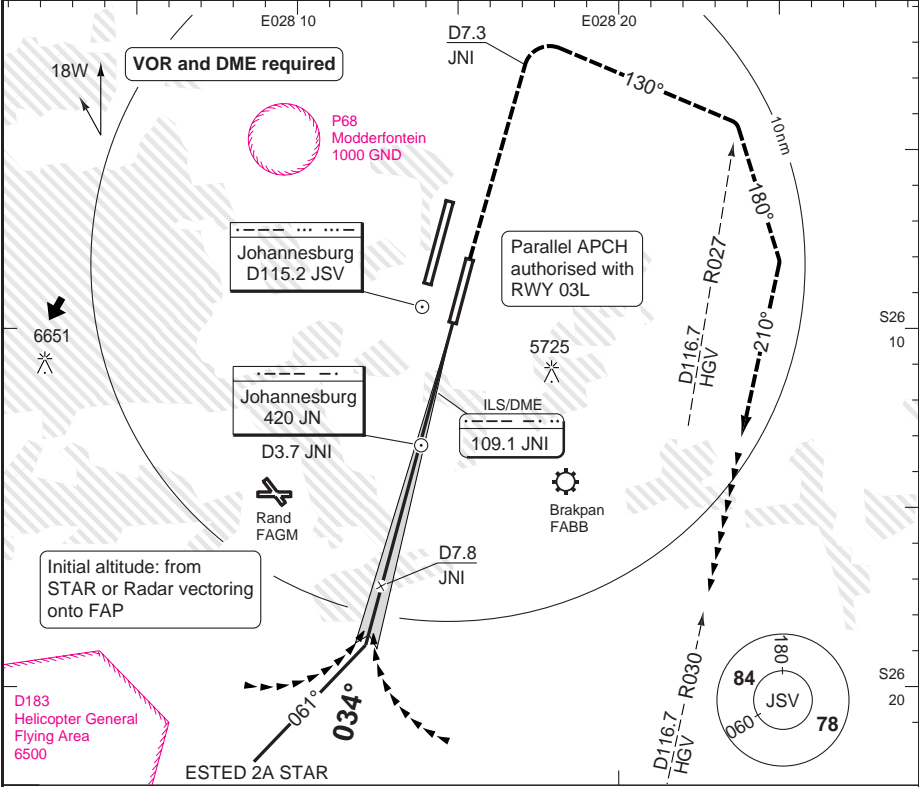
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ILS X RWY 03R

O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

ILS/DME	109.1 JN1	FAT 034°	THR Elev 5510	AD Elev 5558	TL ATC	TA 8000
---------	-----------	----------	---------------	--------------	--------	---------



nm	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	TCH 59
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ACFT	CAT II 5.8%	ILS+DME 5.8%	ILS+DME 2.5%	Circling a c	Circling b c	LDA 3400x60 11154x197ft P 3° L/R
A	RA 97 300m	5710 (200) 550m	6790 (1272) 5000m	6050 (492) 1.5km	6070 (512) 1.5km	
B			6800 (1285) 5000m	6060 (500) 1.6km	6070 (512) 1.6km	
C			6810 (1295) 5000m	6250 (692) 2.4km	6410 (852) 2.4km	
D/DL	RA 94 300m	5720 (201) 550m	6820 (1305) 5000m	6260 (700) 3.6km	6410 (852) 3.6km	

- a East of AD
- b West of AD
- c ILS 2.5% circling see 51-1

Change: ICAO code, minima

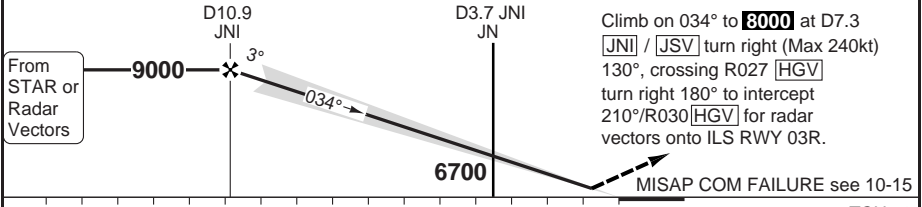
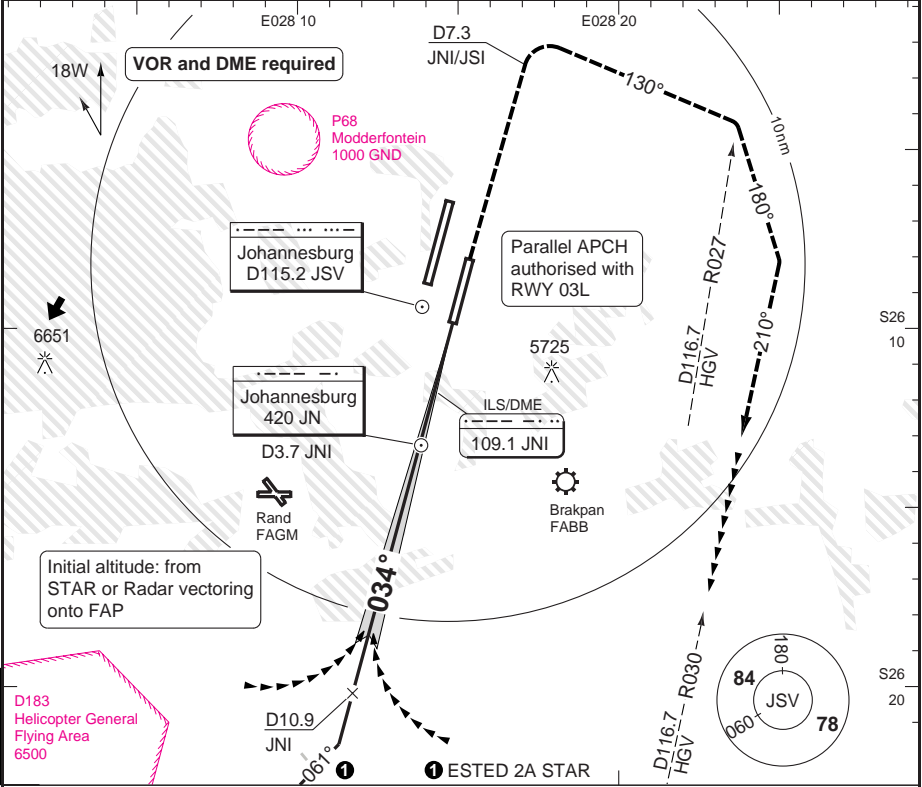
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ILS W RWY 03R

O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

ILS/DME	109.1 JNI	FAT 034°	THR Elev 5510	AD Elev 5558	TL ATC	TA 8000	
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nm	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	TCH 59
ACFT	CAT II 5.8%		ILS+DME 5.8%		ILS+DME 2.5%		Circling a c		Circling b c		LDA 3400x60 11154x197ft P 3° L/R							
A	RA 97 300m		5710 (200) 550m		6790 (1272) 5000m		6050 (492) 1.5km		6070 (512) 1.5km									
B	RA 97 300m		5710 (200) 550m		6800 (1285) 5000m		6060 (500) 1.6km		6070 (512) 1.6km									
C	RA 94 300m		5720 (201) 550m		6810 (1295) 5000m		6250 (692) 2.4km		6410 (852) 2.4km									
D/DL	RA 94 300m		5720 (201) 550m		6820 (1305) 5000m		6260 (700) 3.6km		6410 (852) 3.6km									

- a** East of AD
- b** West of AD
- c** ILS+DME 2.5% circling see 51-1

FALS

50 - 6

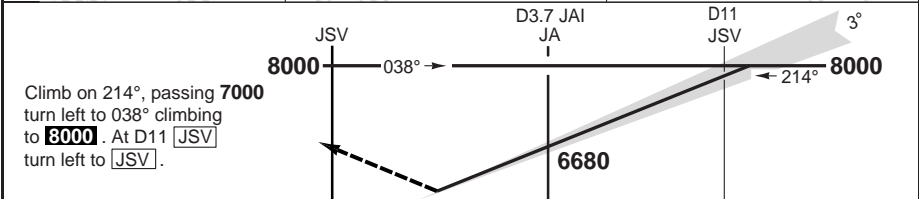
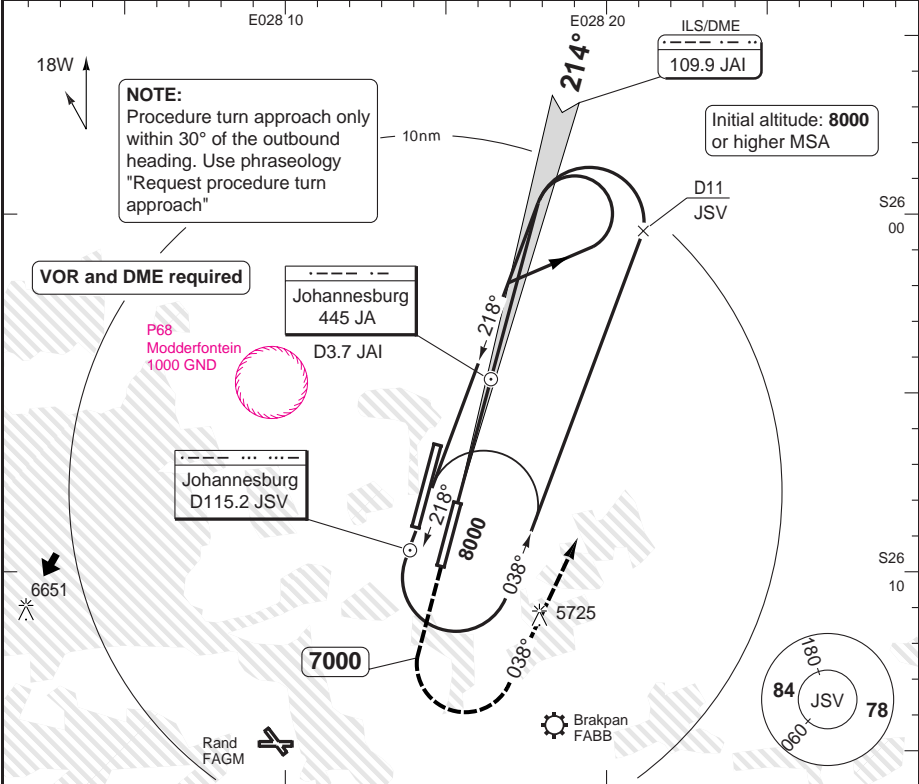
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ILS Z RWY 21L

O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

ILS/DME	109.9 JAI	FAT 214°	THR Elev 5494	AD Elev 5558	TL ATC	TA 8000
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TCH 53

ACFT	CAT II	ILS+DME	Circling a	Circling b	a East of AD.	b West of AD.	LDA 3400x60 11154x196ft P 3° L/R
A	RA 102 300m	5700 (200) 550m	6050 (492) 1.5km	6070 (512) 1.5km	a East of AD.	b West of AD.	
B			6060 (500) 1.6km	6070 (512) 1.6km			
C			6250 (692) 2.4km	6410 (852) 2.4km			
D			6260 (700) 3.6km	6410 (852) 3.6km			



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50 - 7

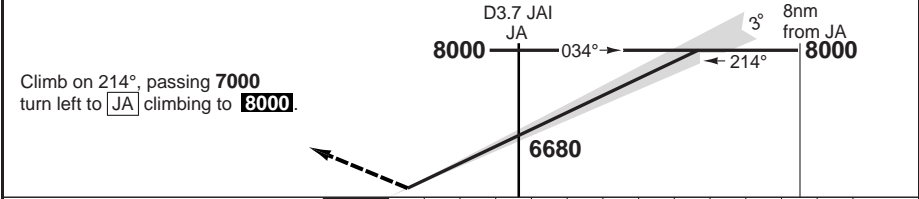
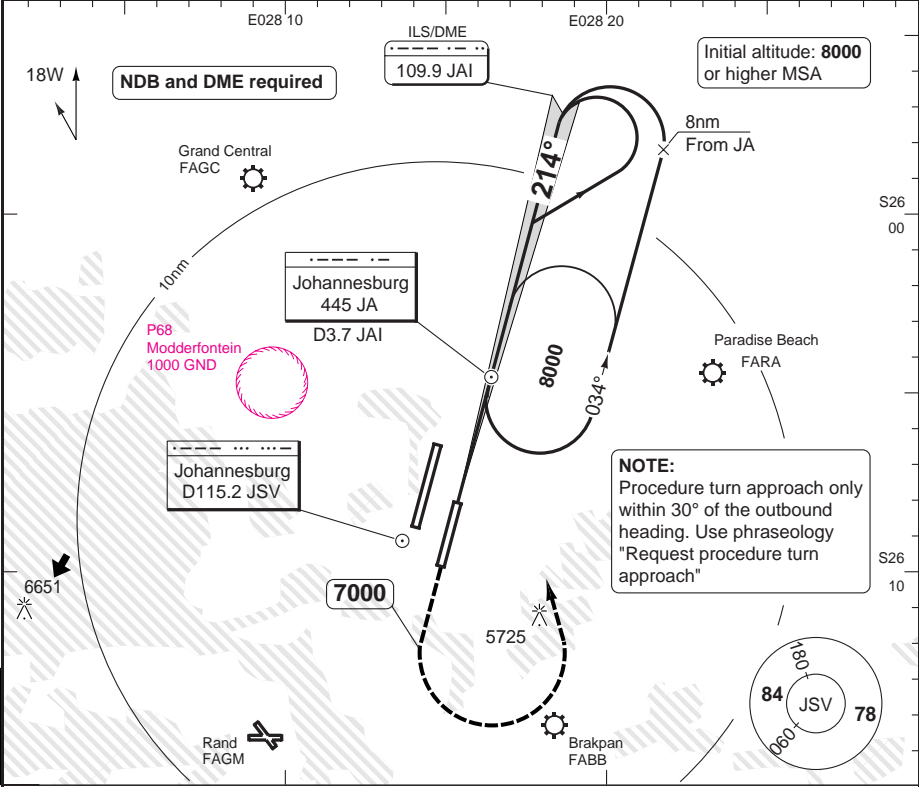
Change: ICAO code, minima

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ILS Y RWY 21L

O R Tambo INTL JOHANNESBURG

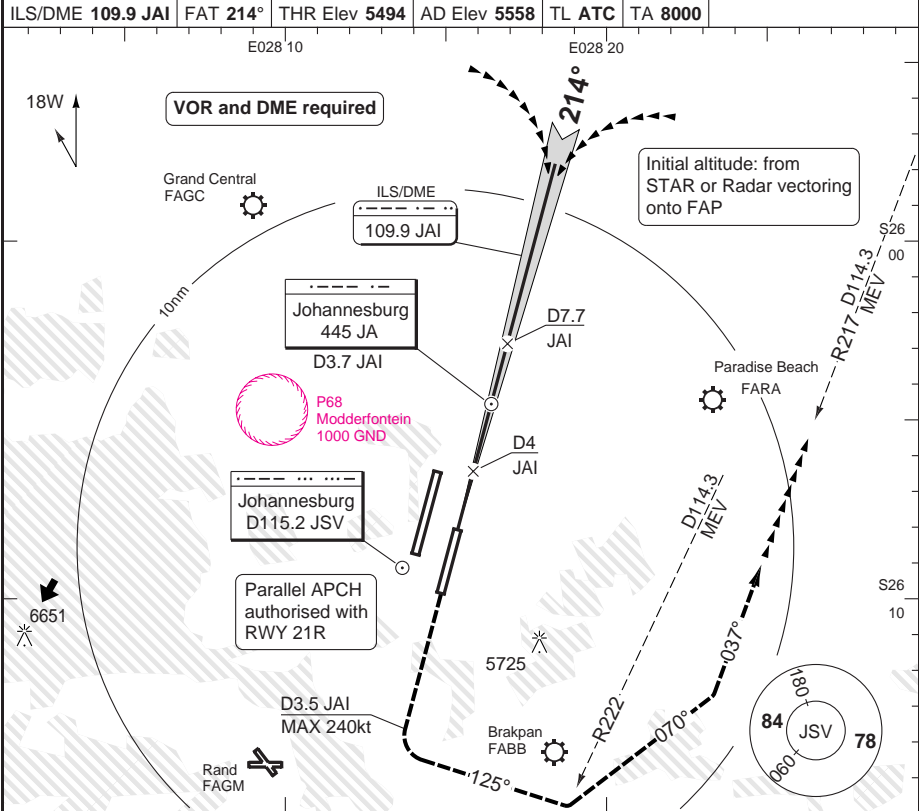
Johannesburg APP 123.7 West 124.5 South/East		DIR 121.4	TWR 118.1 West 118.6 East 121.9		GND 121.9	APN ARR 122.65	ATIS 126.2 131.725 (D) 115.2	
ILS/DME 109.9 JAI	FAT 214°	THR Elev 5494	AD Elev 5558	TL ATC	TA 8000			



ILS X RWY 21L

O R Tambo INTL JOHANNESBURG

Johannesburg APP 123.7 West 124.5 South/East		DIR 121.4	TWR 118.1 West 118.6 East 121.9		GND 121.9	APN ARR 122.65	ATIS 126.2 131.725 (D) 115.2	
ILS/DME 109.9 JAI		FAT 214°	THR Elev 5494	AD Elev 5558	TL ATC	TA 8000		



Climb on 214° to **7000**. At D3.5 JAI turn left (Max 240kt) onto HDG 125° and once established climb to **8000**. Crossing R222 MEV turn left HDG 070 to intercept 037°/R217 MEV for radar vectors onto ILS RWY 21L.
MISAP COM FAILURE see 10-15

TCH 53	0	1	2	3	4	5	6	7	8	9	10	11	12	13	nm
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ACFT	CAT II 4.6%	ILS+DME 4.6%	ILS+DME 2.5%	Circling a c	Circling b c	LDA 3400x60 11154x196ft P 3° L/R
A	RA 102 300m	5700 (200) 550m	6640 (1140) 1500m	6050 (492) 1.5km	6070 (512) 1.5km	
B			6650 (1151) 1500m	6060 (500) 1.6km	6070 (512) 1.6km	
C			6660 (1161) 2400m	6250 (692) 2.4km	6410 (852) 2.4km	
D/DL			6670 (1175) 2400m	6260 (700) 3.6km	6410 (852) 3.6km	

- a** East of AD
- b** West of AD
- c** ILS+DME 2.5% circling see 51-1

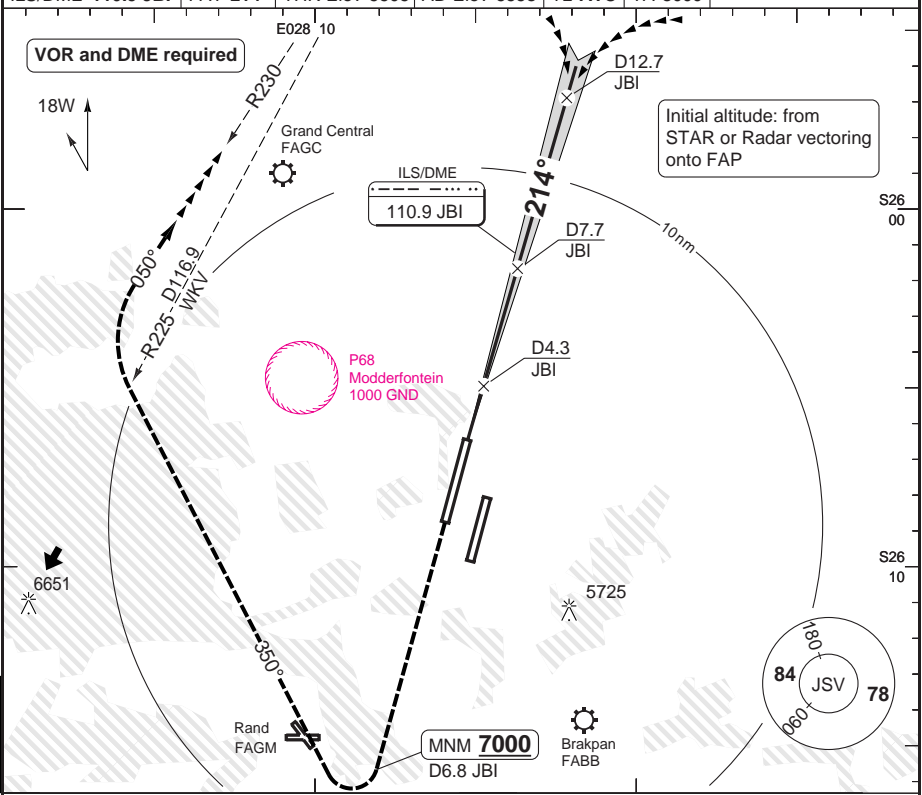
50 - 10 | 25 JUL 12

South Africa - FAJS / JNB

ILS RWY 21R

O R Tambo INTL JOHANNESBURG

Johannesburg APP 123.7 West 124.5 South/East		DIR 121.4	TWR 118.1 West 118.6 East 121.9		GND 121.9	APN ARR 122.65	ATIS 126.2 131.725 (D) 115.2	
ILS/DME 110.9 JBI	FAT 214°	THR Elev 5505	AD Elev 5558	TL ATC	TA 8000			



Climb on 214° to **3000** at D6.8 JBI turn right (MAX 250kt) on HDG 350°. Crossing R225 WKV turn right to intcp R230 WKV for radar vectors onto ILS RWY 21R. MISAP COM FAILURE see 10-15

From STAR or Radar Vectors → 214°-8000 → 3° → 6880

RDH 53

ACFT	CAT II 3.7%	ILS+DME 3.7 %	ILS+DME 2.5%	Circling b	Circling c	LDA 3968x60 13018x197ft P 3° L/R
A	RA 97 300m	5710 (200) 750m	6090 (579) 1500m	6110 (545) 1.5km a	6130 (565) 1.5km a	
B			6100 (586) 1500m	6110 (545) 1.6km a	6130 (565) 1.6km a	
C			6110 (599) 2300m	6310 (745) 2.4km	6470 (905) 2.4km	
D/DL			6120 (606) 2400m	6310 (745) 3.6km	6470 (905) 3.6km	

- a After ILS+DME 2.5%:
Cat A 6140 (579) 1.5km
Cat B 6150 (586) 1.6km
- b East of AD.
- c West of AD.



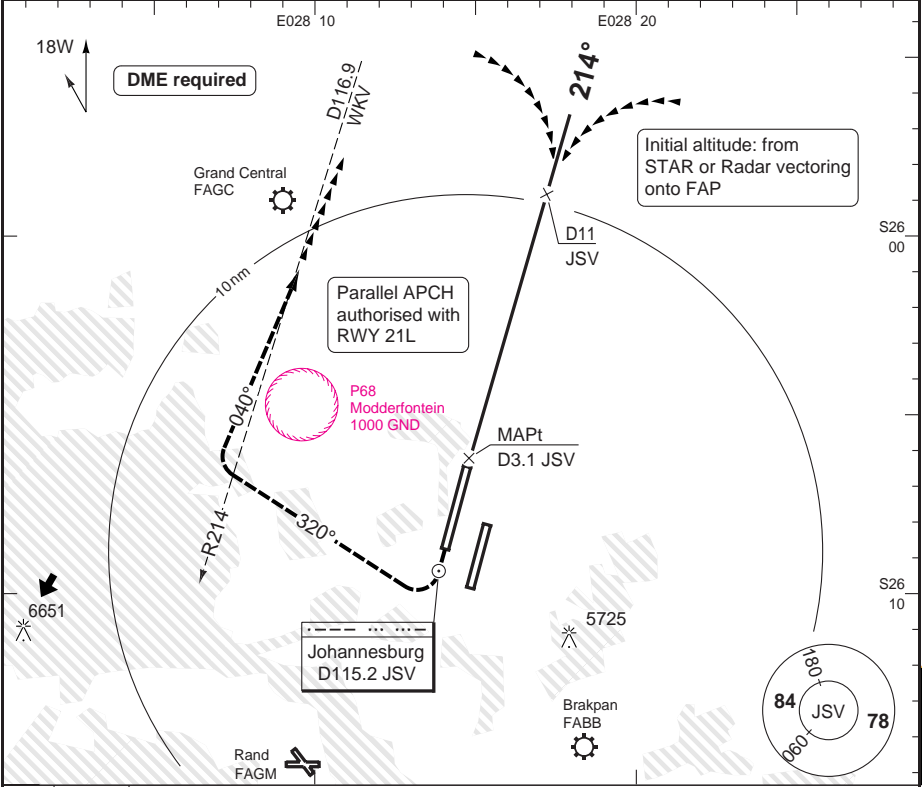
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VOR Y RWY 21R

O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

VOR/DME	115.2 JSV	FAT	214°	THR Elev	5505	AD Elev	5558	TL ATC	TA	8000
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MAPt D3.1 JSV

Climb on 214° to **8000** at **JSV** turn right (Max 240kt) HDG 320° Crossing R214 **WKV** turn right HDG 040° for radar vectors. MISAP COM FAILURE see 10-15

From STAR or Radar Vectors → 8000 → 214° → 2.8° → JSV

ACFT	VOR+DME a	VOR+DME b	Circling a c	Circling a d	Circling b	DME JSV	2.9° ALT	LDA 3968x60 13018x197ft P 3° L/R
A	5980 (475)	7030 (1525) 5000m	6110 (545) 1.5km	6130 (565) 1.5km	7090 (1525) 5.0km	11	8000	IALS
B	1500m		6110 (545) 1.6km	6130 (565) 1.6km		9	7390	
C	5980 (475)	6310 (745) 2.4km	6470 (905) 2.4km	7	7030			
D	1800m	6310 (745) 3.6km	6470 (905) 3.6km	6	6770			
				5	6150			
GS	80	100	120	140	160	4.5	5980	

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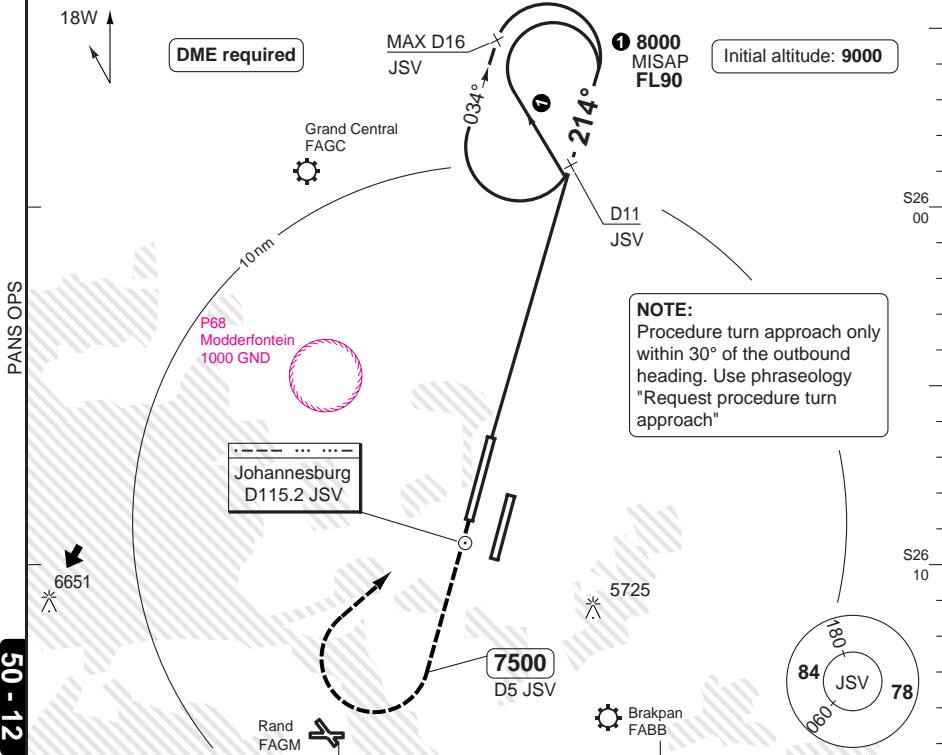
50 - 11

VOR Z RWY 21R

O R Tambo INTL JOHANNESBURG

Johannesburg APP		DIR	TWR		GND	APN ARR	ATIS	
123.7 West	124.5 South/East	121.4	118.1 West	118.6 East	121.9	122.65	126.2	131.725 (D)
			121.9				115.2	

VOR/DME	115.2 JSV	FAT	214°	THR Elev	5505	AD Elev	5558	TL ATC	TA	8000
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50 - 12

MAPt D3 JSV

Climb on R214 [JSV] to **7500** or D5 after [JSV], whichever later. Turn right to [JSV] climbing to **FL90**. Enter holding at D11/R034 [JSV].

9000 034° 8000
214° 2.8°

ACFT	VOR+DME	Circling a	Circling b	a East of AD.	b West of AD.	DME JSV	2.9° ALT	LDA 3968x60 13018x197ft P 3° L/R
A	6120 (615)	6180 (615) 1.5km	6180 (615) 1.5km			11	8000	
B	1500m	6180 (615) 1.6km	6180 (615) 1.6km			10	7700	
C	6120 (615)	6310 (745) 2.4km	6470 (905) 2.4km			9	7390	
D	2400m	6310 (745) 3.6km	6470 (905) 3.6km			8	7080	
						7	6770	
						6	6460	
						4.7	6060	

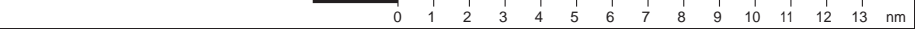
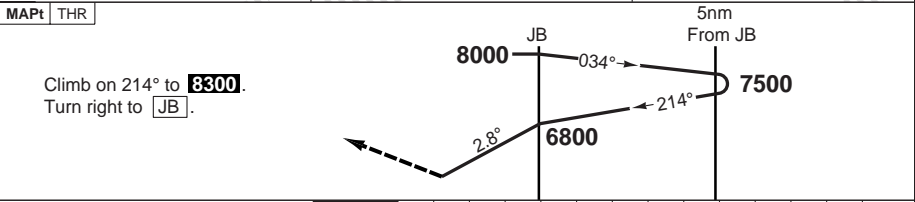
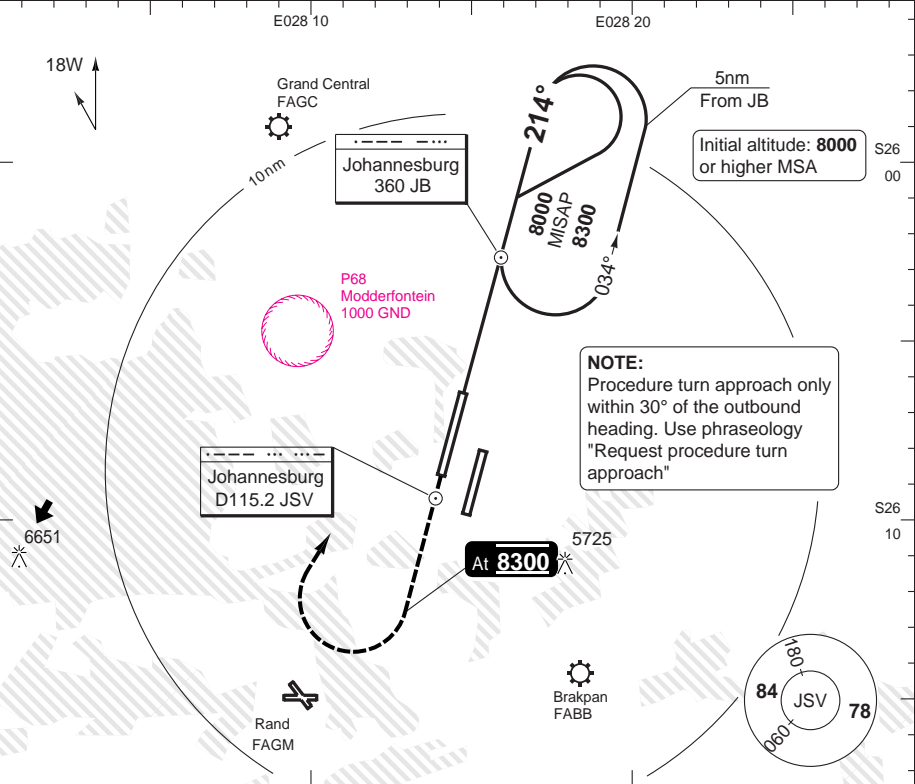
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NDB RWY 21R

O R Tambo INTL JOHANNESBURG

Johannesburg APP 123.7 West 124.5 South/East		DIR 121.4	TWR 118.1 West 118.6 East 121.9		GND 121.9	APN ARR 122.65	ATIS 126.2 131.725 (D) 115.2	
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NDB 360 JB	FAT 214°	THR Elev 5505	AD Elev 5558	TL ATC	TA 8000
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ACFT	NDB	Circling a	Circling b	GS	80	100	120	140	160	LDA 3400x60 11154x197ft P 3° L/R
A	5910 (405) 1500m	6110 (545) 1.5km	6130 (565) 1.5km	ROD 3.0°	430	540	650	750	860	IALS
B		6110 (545) 1.6km	6130 (565) 1.6km	JB +20s	6670	6630	6590	6560	6520	
C		6310 (745) 2.4km	6470 (905) 2.4km	+40s	6520	6450	6380	6310	6240	
D		6310 (745) 3.6km	6470 (905) 3.6km	+60s	6380	6270	6170	6060	5950	
				JB-5910	2:05	1:40	1:23	1:11	1:02	

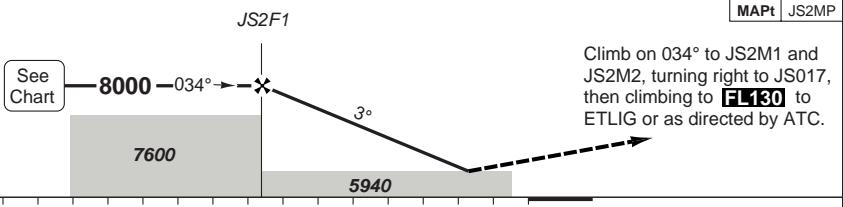
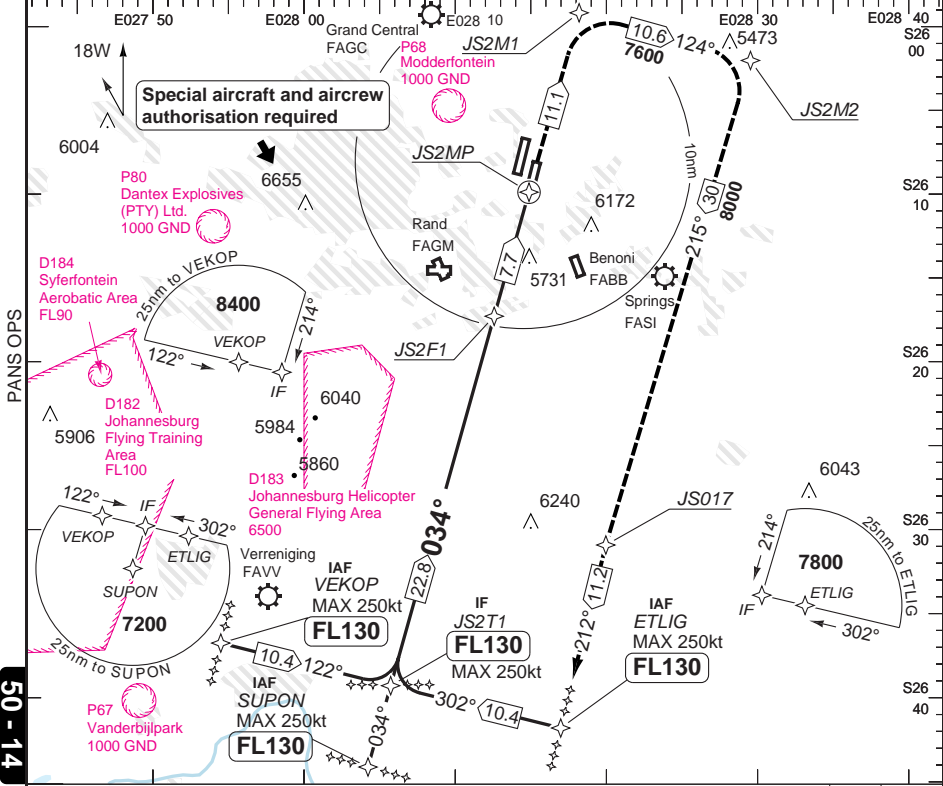
a East of AD.
b West of AD.

RNAV (GNSS) RWY 03R

O R Tambo INTL JOHANNESBURG

Johannesburg APP 123.7 West 124.5 South/East		DIR 121.4	TWR 118.1 West 118.6 East 121.9	GND 121.9	APN ARR 122.65	ATIS 126.2 131.725 (D) 115.2
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RNAV	FAT 034°	THR Elev 5510	AD Elev 5558	TL ATC	TA 8000
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nm	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
ACFT	LNAV 3.8%		LNAV 2.5%		Circling a		Circling b		Circling c		LDA 3400x60 11154x196ft P3° L/R						
A	5940 (430) 1300m		6510 (1000) 1500m		6050 (492) 1.5km		6070 (512) 1.5km		6560 (1000) 1.5km		 FALS						
B					6060 (500) 1.6km		6070 (512) 1.6km		6560 (1000) 1.6km								
C	5940 (430) 1400m		6510 (1000) 2400m		6250 (692) 2.4km		6410 (852) 2.4km		6560 (1000) 2.4km								
D					6260 (700) 3.6km		6410 (852) 3.6km		6560 (1000) 3.6km								

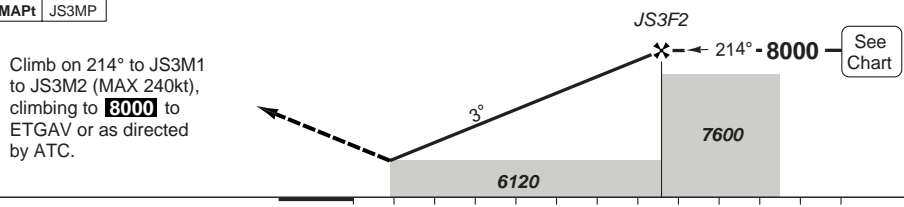
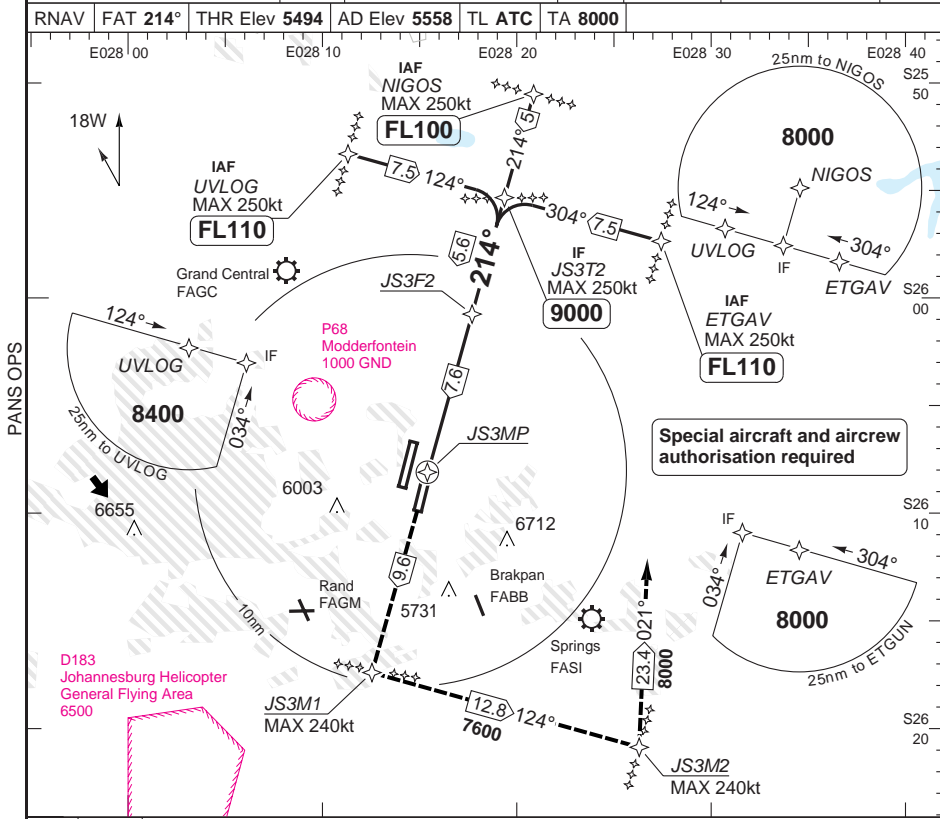
- a** East of AD.
- b** West of AD.
- c** After LNAV 2.5% procedure.

Change: ICAO code

THIS CHART IS A PART OF NAVIGRAPH NDAC AND IS INTENDED FOR FLIGHT SIMULATION USE ONLY

RNAV (GNSS) RWY 21L O R Tambo INTL JOHANNESBURG

Johannesburg APP 123.7 West 124.5 South/East		DIR 121.4	TWR 118.1 West 118.6 East 121.9		GND 121.9	APN ARR 122.65	ATIS 126.2 131.725 (D) 115.2	
RNAV	FAT 214°	THR Elev 5494	AD Elev 5558	TL ATC	TA 8000			



ACFT	LNAV 3.5%	LNAV 2.5%	Circling a	Circling b	Circling c
A	6120 (626) 1500m	6530 (1036) 1500m	6190 (626) 1.5km	6190 (626) 1.5km	6600 (1036) 1.5km
B			6190 (626) 1.6km	6190 (626) 1.6km	6600 (1036) 1.6km
C	6120 (626) 2200m	6530 (1036) 2400m	6250 (692) 2.4km	6410 (852) 2.4km	6600 (1036) 2.4km
D			6260 (700) 3.6km	6410 (852) 3.6km	6600 (1036) 3.6km

LDA 3400x60
11154x196ft
P 3° L/R

FALS

- a East of AD.
- b West of AD.
- c After LNAV 2.5% procedure.

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JAR-OPS Landing Minima O.R Tambo INTL JOHANNESBURG

The following Minima is for Public Transport aircraft and conforms to JAR-OPS1 regulations.

STRAIGHT-IN APPROACH		C				D			
R/W	Procedure	DA/ MDA QNH ft	DH/ MDH QFE ft	RVR m	RVR No ALS m	DA/ MDA QNH ft	DH/ MDH QFE ft	RVR m	RVR No ALS m
03L	ILS/DME Y (M/App 2.5%)(1)	6300	740	800	1200	6320	760	800	1200
03L	ILS/DME Y (M/App 3.5%)(1)	5760	200	550	1000	5760	210	600	1000
03L	ILS/DME Z	5760	200	550	1000	5760	200	550	1000
03R	ILS/DME W, X (M/App 2.5%)(1)	6810	1300	800	1200	6820	1310	800	1200
03R	ILS/DME W, X (M/App 5.8%)(1)	5710	200	550	1000	5720	210	600	1000
03R	ILS/DME Y, Z	5710	200	550	1000	5710	200	550	1000
21L	ILS/DME X (M/App 2.5%)(1)	6660	1170	800	1200	6670	1180	800	1200
21L	ILS/DME X (M/App 4.6%)(1)	5700	200	550	1000	5700	200	550	1000
21L	ILS/DME Y, Z	5700	200	550	1000	5700	200	550	1000
21R	ILS/DME (M/App 2.5%)(1)	6110	600	800	1200	6120	610	800	1200
21R	ILS/DME (M/App 3.7%)(1)	5710	200	550	1000	5710	200	550	1000
21R	VOR/DME Y (M/App 2.5%)(1)	7030	1530	1400	2000	7030	1530	1800	2000
21R	VOR/DME Y (M/App 5.0%)(1)	5980	480	1200	2000	5980	480	1600	2000
21R	VOR/DME Z	6120	620	1200	2000	6120	620	1600	2000
21R	NDB	5910	410	1000	1800	5910	410	1400	2000

Notes:

(1) Includes Cat DL aeroplanes.

CIRCLING		C			D		
R/W	Procedure	MDA QNH ft	MDH QFE ft	Vis m	MDA QNH ft	MDH QFE ft	Vis m
21R	All Procs (1)	6470	910	2400	6470	910	3600
21R	All Procs (2)	6310	750	2400	6310	750	3600
	All Other Procs (1)	6410	860	2400	6410	860	3600
	All Other Procs (2)	6250	700	2400	6260	700	3600

Notes:

(1) West of Rwy 03/21.

(2) East of Rwy 03/21.

TAKE-OFF		C	D
Runway	Facilities	m	m
	RCLL(H)+REDL(H)+Multi RVR (1)	-	-
03L, 03R, 21L	RCLL+REDL+Multi RVR	150	200
03L, 03R, 21L	RCLL+REDL	200	250
03L, 03R, 21L, 21R	RCL and/or REDL (2)	250	300
All	Nil (Day only)	500	500

Notes:

(1) Subject to Approval.

(2) For night operations, at least runway edge and end lights required.

JAR-OPS Landing Minima O.R Tambo INTL JOHANNESBURG

The following Minima is for Public Transport aircraft and conforms to JAR-OPS1 regulations.

STRAIGHT-IN APPROACH		A				B			
R/W	Procedure	DA/ MDA QNH	DH/ MDH QFE	RVR	RVR	DA/ MDA QNH	DH/ MDH QFE	RVR	RVR
		ft	ft	m	m	ft	ft	m	m
03L	ILS/DME Y (M/App 2.5%)(1)	6280	720	800	1200	6290	730	800	1200
03L	ILS/DME Y (M/App 3.5%)(1)	5760	200	550	1000	5760	200	550	1000
03L	ILS/DME Z	5760	200	550	1000	5760	200	550	1000
03R	ILS/DME W, X (M/App 2.5%)(1)	6790	1280	800	1200	6800	1290	800	1200
03R	ILS/DME W, X (M/App 5.8%)(1)	5710	200	550	1000	5710	200	550	1000
03R	ILS/DME Y, Z	5710	200	550	1000	5710	200	550	1000
21L	ILS/DME X (M/App 2.5%)(1)	6640	1140	800	1200	6650	1160	800	1200
21L	ILS/DME X (M/App 4.6%)(1)	5700	200	550	1000	5700	200	550	1000
21L	ILS/DME Y, Z	5700	200	550	1000	5700	200	550	1000
21R	ILS/DME (M/App 2.5%)(1)	6090	580	800	1200	6100	590	800	1200
21R	ILS/DME (M/App 3.7%)(1)	5710	200	550	1000	5710	200	550	1000
21R	VOR/DME Y (M/App 2.5%)(1)	7030	1530	1200	1500	7030	1530	1400	1500
21R	VOR/DME Y (M/App 5.0%)(1)	5980	480	1000	1500	5980	480	1200	1500
21R	VOR/DME Z	6120	620	1000	1500	6120	620	1200	1500
21R	NDB	5910	410	900	1500	5910	410	1000	1500

Notes:

(1) Includes Cat DL aeroplanes.

CIRCLING		A			B		
R/W	Procedure	MDA QNH	MDH QFE	Vis	MDA QNH	MDH QFE	Vis
		ft	ft	m	ft	ft	m
21R	All Procs (1)	6130	570	1500	6130	570	1600
21R	All Procs (2)	6110	550	1500	6110	550	1600
	All Other Procs (1)	6070	520	1500	6070	520	1600
	All Other Procs (2)	6050	500	1500	6060	500	1600

Notes:

(1) West of Rwy 03/21.

(2) East of Rwy 03/21.

TAKE-OFF		A	B
Runway	Facilities	m	m
	RCLL(H)+REDL(H)+Multi RVR (1)	-	-
03L, 03R, 21L	RCLL+REDL+Multi RVR	150	150
03L, 03R, 21L	RCLL+REDL	200	200
03L, 03R, 21L, 21R	RCL and/or REDL (2)	250	250
All	Nil (Day only)	500	500

Notes:

(1) Subject to Approval.

(2) For night operations, at least runway edge and end lights required.

JAR-OPS Landing Minima O.R Tambo INTL JOHANNESBURG

The following Minima is for Public Transport aircraft and conforms to JAR-OPS1 regulations.

CAT II

Special aircrew and aircraft certification required.

Runways	C				D			
	DA QNH ft	DH QFE ft	RA ft	RVR m	DA QNH ft	DH QFE ft	RA ft	RVR m
03L Y (M/app 3.5%)(1)(2)	5658	100	88	300	5662	104	92	350
03L Z (1)	5658	100	88	300	5658	100	88	350
03R W, X (M/App 5.8%)(1)(2)	5610	100	95	300	5619	109	102	350
03R Y, Z (1)	5610	100	95	300	5610	100	95	350
21L X (M/App 4.6%)(1)(2)	5594	100	102	300	5595	101	103	350
21L Y, Z (1)	5594	100	102	300	5594	100	102	350

Notes:

- 1) Cat D RVR may be reduced to 300m when conducting autoland.
- 2) Includes Cat DL aeroplanes.

Runways	A				B			
	DA QNH ft	DH QFE ft	RA ft	RVR m	DA QNH ft	DH QFE ft	RA ft	RVR m
03L Y (M/app 3.5%)	5658	100	88	300	5658	100	88	300
03L Z	5658	100	88	300	5658	100	88	300
03R W, X (M/App 5.8%)	5610	100	95	300	5610	100	95	300
03R Y, Z	5610	100	95	300	5610	100	95	300
21L X (M/App 4.6%)	5594	100	102	300	5594	100	102	300
21L Y, Z	5594	100	102	300	5594	100	102	300

Notes: