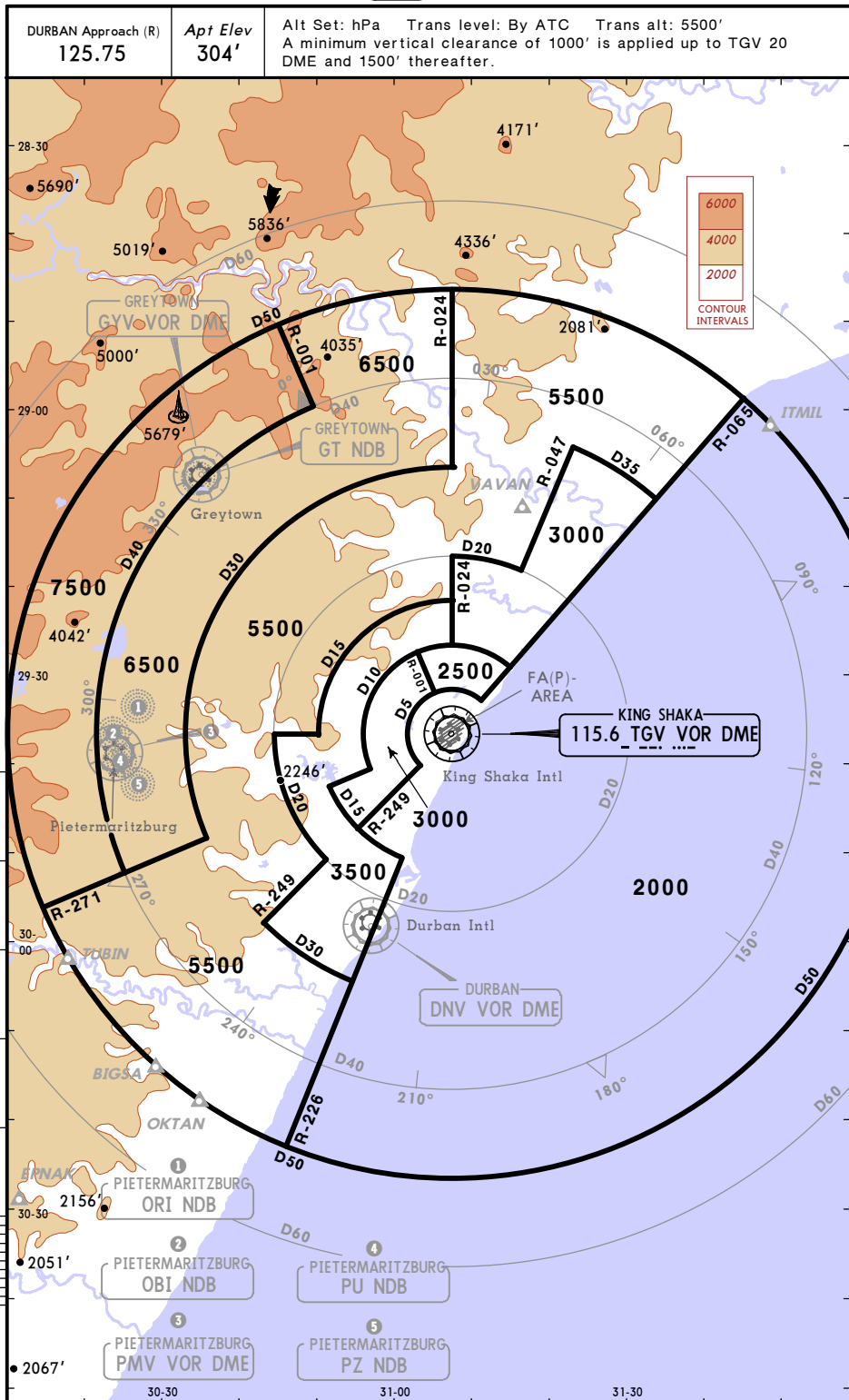


FALE/DUR KING SHAKA INTL

JEPPESEN 16 JUL 10 (20-1R) Eff 29 Jul RADAR MINIMUM ALTITUDES

DURBAN, S AFR REP



MSA
ARP

MAX 250 KT

MAX 210 KT

At or above
6300'

NOT TO SCALE

KING SHAKA
D
(H) 115.6 TGV
S29 36.7 E031 07.5

ILS DME
*111.3 TNI

MAX 150 KT
or as cleared
by ATC

If the speed is below minimum safe operating speed, the minimum safe operating speed will be flown and ATC advised. Unless for emergency pilots are not to request cancellation of speed restrictions.

(IAF)
LE1N1
S29 44.3 E030 51.1

At or above
5600'

When established on
LOC maintain **MAX**
180 KT until
TGV 10 DME

▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST

If not cleared for an arrival, proceed to nearest STAR entry position at last assigned FL or FL130, whichever is highest. Comply with associated communication failure procedure.

Before APMAT: Proceed to APMAT and enter holding, hold at last assigned FL for minimum 5 minutes, then descend to FL130 or maintain last assigned FL if below FL130. Leave APMAT on "After APMAT" procedure.

After APMAT: Continue on STAR maintaining last assigned FL, when passing LE001 descend to FL80, at LE002 turn RIGHT to LE1N1. Continue RNAV (GNSS) approach and intercept ILS.

[illegible]

From APMAT to LE002, turn RIGHT to LE1N1 for RADAR vectoring to ILS.

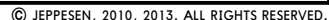
In the event of a missed approach with the intention of diverting to an alternate airport comply with **SID ITMIL 1C.**

5300'

MSA
ARP

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5300'

MSA
ARP

D-ATIS
127.0

Apt Elev
304'

Alt Set: hPa Trans level: By ATC Trans alt: 5500'
1. If unable to comply with STAR notify ATC.
2. SIDs and STARs must be announced in operation on ATIS and will only be in place when Surveillance RADAR is operational.

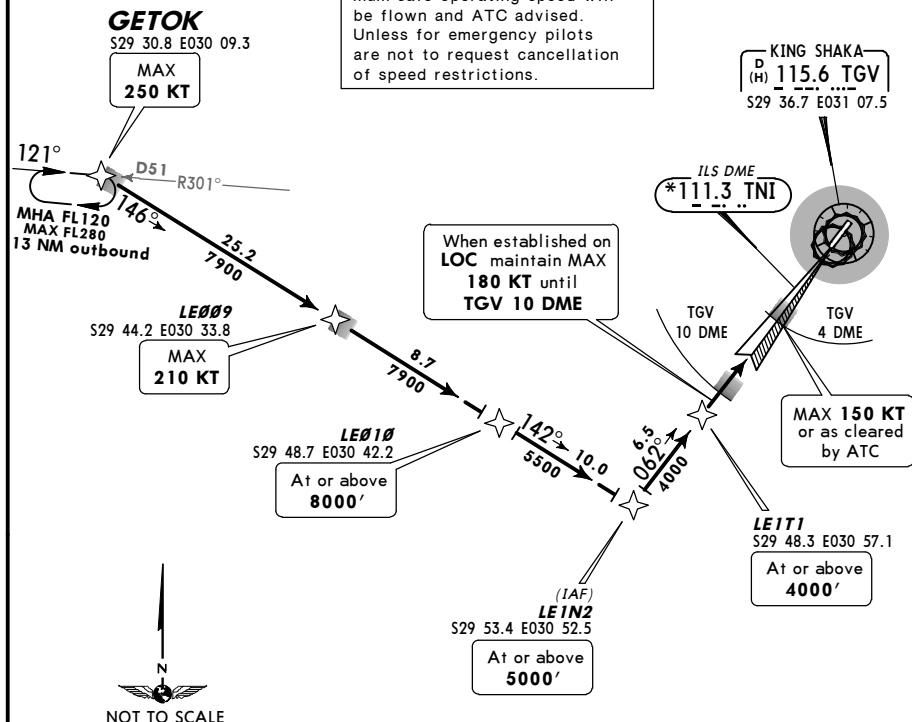
5300'

MSA
ARP

GETOK 1C [GETO1C]
RWY 06 RNAV ARRIVAL
RNAV (GNSS)
RNAV 2 REQUIRED

**SPEED LIMIT POINTS
(SLP)**

If the speed is below minimum safe operating speed, the minimum safe operating speed will be flown and ATC advised. Unless for emergency pilots are not to request cancellation of speed restrictions.



Direct distance from LE1N2 to :
King Shaka Intl **21 NM**

▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST

If not cleared for an arrival, proceed to nearest STAR entry position at last assigned FL or FL130, whichever is highest. Comply with associated communication failure procedure.

Before GETOK: Proceed to GETOK and enter holding, hold at last assigned FL for minimum 5 minutes, then descend to FL120 or maintain last assigned FL if below FL120. Leave GETOK on "After GETOK" procedure.

After GETOK: Continue on STAR and maintain FL120, proceed via LE010 to LE1N2, turn LEFT to LE1T1. Continue RNAV (GNSS) approach and intercept ILS.

TO ▲ COMMM TO ▲ COMMM TO ▲ COMMM TO ▲ COMMM TO ▲ COMMM TO ▲ COMMM TO ▲ COMMM TO ▲ COMMM TO ▲

ROUTING

From GETOK to LE010, then to LE1N2, turn LEFT to LE1T1, intercept ILS.

In the event of a missed approach with the intention of diverting to an alternate airport comply with **SID ITMIL 1C**.

1. If unable to comply with STAR notify ATC.
2. SIDs and STARs must be announced in operation on ATIS and will only be in force when Surveillance RADAR is operational.

MSA
ARP**RNAV 2 REQUIRED**

$\overline{D}_{(H)}$ KING SHAKA
 115.6 TGV
 S29 36.7 E031 07.5

S29 37.2 E030 57.3

121°

MHA FL120
MAX FL280
13 NM outbound

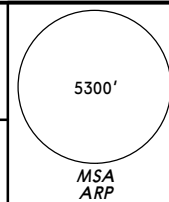
In the event of a missed approach with the intention of diverting to an alternate airport comply with **SID OKTAN 1A**.

NOT TO SCALE

D-ATIS
127.0

Apt Elev
304'

Alt Set: hPa Trans level: By ATC Trans alt: 5500'
1. If unable to comply with STAR notify ATC.
2. SIDs and STARs must be announced in operation on ATIS and will only be in force when Surveillance RADAR is operational.



ITMIL 1A [ITM11A]
RWY 06 RNAV ARRIVAL
RNAV (GNSS)
RNAV 2 REQUIRED



ITMIL
S29 01.9 E031 48.6
MAX
250 KT

MHA FL150
MAX FL280
244°

LE006
S29 17.2 E031 33.6
At or above
5600'
MAX 210 KT

KING SHAKA
D(H) 115.6 TGV
S29 36.7 E031 07.5

ILS DME
*111.3 TNI

MAX 150 KT
or as cleared
by ATC

TGV 10 DME

LE013
S29 36.1 E031 17.1

Direct distance from LE1N3 to:
King Shaka Intl 16 NM

(IAF)
LE1N3
S29 52.2 E031 03.0
At or above
5600'

When established on
LOC maintain MAX
180 KT until
TGV 10 DME

**MAXIMUM APPROACH
SPEED POINTS (SLP)**

If the speed is below minimum safe operating speed, the minimum safe operating speed will be flown and ATC advised. Unless for emergency pilots are not to request cancellation of speed restrictions.

▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST

If not cleared for an arrival, proceed to nearest STAR entry position at last assigned FL or FL130, whichever is highest. Comply with associated communication failure procedure.
Before ITMIL: Proceed to ITMIL and enter holding, hold at last assigned FL for minimum 5 minutes, then descend to FL90 or maintain last assigned FL if below FL90. Leave ITMIL on "After ITMIL" procedure.
After ITMIL: Continue on STAR maintaining last assigned FL, when passing LE013 descend to FL80, proceed to LE1N3. Continue RNAV (GNSS) approach and intercept ILS.



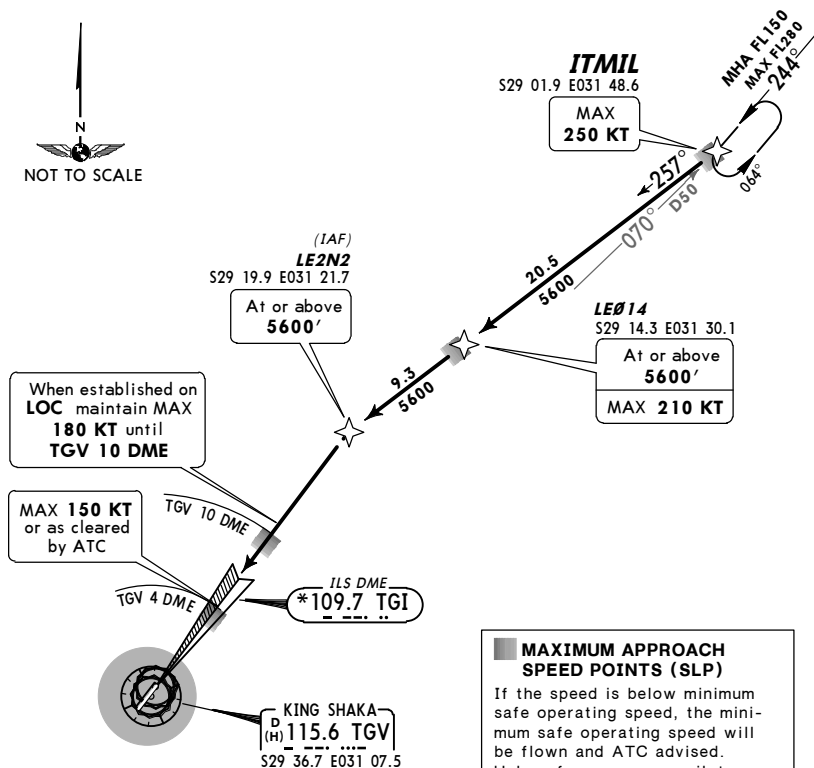
ROUTING

From ITMIL to LE006, then to LE013, then to LE1N3, turn RIGHT for radar vectoring to ILS.

In the event of a missed approach with the intention of diverting to an alternate airport comply with **SID ITMIL 1C**.

D-ATIS 127.0	Apt Elev 304'	Alt Set: hPa Trans level: By ATC Trans alt: 5500' 1. If unable to comply with STAR notify ATC. 2. SIDs and STARs must be announced in operation on ATIS and will only be in force when Surveillance RADAR is operational.	5300' MSA ARP
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ITMIL 1B [ITM11B]
RWY 24 RNAV ARRIVAL
RNAV (GNSS)
RNAV 2 REQUIRED



Direct distance from LE2N2 to:
King Shaka Intl **21 NM**

**MAXIMUM APPROACH
SPEED POINTS (SLP)**

If the speed is below minimum safe operating speed, the minimum safe operating speed will be flown and ATC advised. Unless for emergency pilots are not to request cancellation of speed restrictions.

▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST

If not cleared for an arrival, proceed to nearest STAR entry position at last assigned FL or FL130, whichever is highest. Comply with associated communication failure procedure.

Before ITMIL: Proceed to ITMIL and enter holding, hold at last assigned FL for minimum 5 minutes, then descend to FL90 or maintain last assigned FL if below FL90. Leave ITMIL on "After ITMIL" procedure.

After ITMIL: Continue on STAR maintaining last assigned FL, at LE014 descend to FL80, at LE2N2, turn LEFT and continue RNAV (GNSS) approach and intercept ILS.

TO SLOMWB SLOMWB SLOMWB SLOMWB SLOMWB SLOMWB SLOMWB SLOMWB SLOMWB SLOMWB

ROUTING

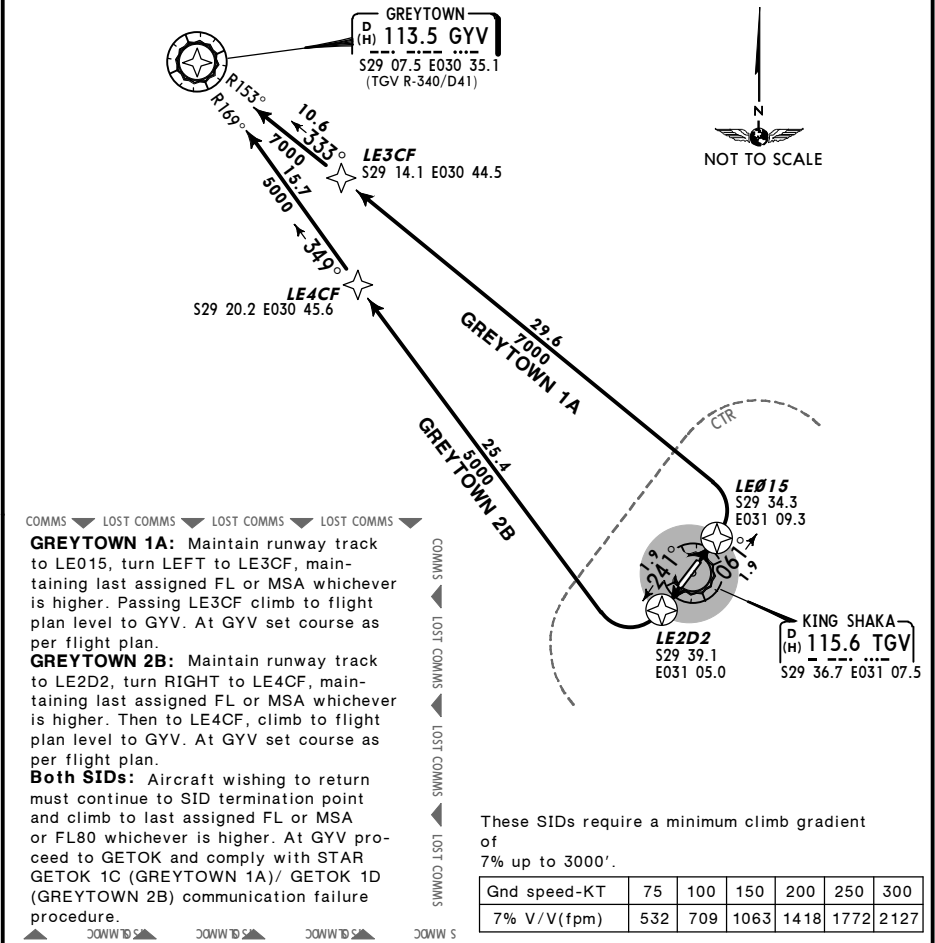
From ITMIL to LE2N2, turn LEFT to intercept ILS.

In the event of a missed approach with the intention of diverting to an alternate airport comply with **SID OKTAN 1A**.

DURBAN Approach 125.75	Apt Elev 304'	Trans level: By ATC Trans alt: 5500' 1. If unable to comply with SID notify ATC. 2. SIDs and STARs must be announced in operation on ATIS and will only be in force when Surveillance RADAR is operational. 3. SIDs include minimum noise routings. 4. Contact DURBAN Approach on frequency provided in ATC clearance at 2000'. Advise RADAR of level passing on first contact for Mode-C check. 5. Cross CTR boundary at or above 3000'.	5300' MSA ARP
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GREYTOWN 1A [GYV1A]
GREYTOWN 2B [GYV2B]
RWYS 06, 24 RNAV DEPARTURES
RNAV (GNSS)
RNAV 2 REQUIRED

~~SPEED~~ MAX 220 KT UNTIL ESTABLISHED ON TRACK TO GYV



Initial climb clearance FL70 , further climb under RADAR control.		
SID	RWY	ROUTING
GREYTOWN 1A	06	On runway track to LE015, turn LEFT to LE3CF, then to GYV, then as per flight plan.
GREYTOWN 2B	24	On runway track to LE2D2, turn RIGHT to LE4CF, then to GYV, then as per flight plan.

MSA
ARP

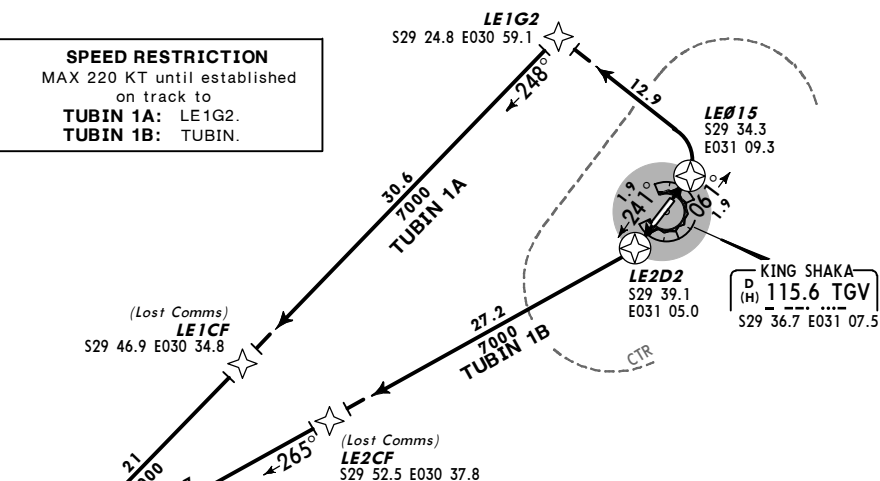
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MSA
ARP

DURBAN Approach 125.75	Apt Elev 304'	<p>Trans level: By ATC Trans alt: 5500'</p> <ol style="list-style-type: none"> 1. If unable to comply with SID notify ATC. 2. SIDs and STARs must be announced in operation on ATIS and will only be in force when Surveillance RADAR is operational. 3. SIDs include minimum noise routings. 4. Contact DURBAN Approach on frequency provided in ATC clearance at 2000'. Advise RADAR of level passing on first contact for Mode-C check. 5. Cross CTR boundary at or above 3000'. 	<p>5300'</p> <p>MSA ARP</p>
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TUBIN 1A [TUB11A]
TUBIN 1B [TUB11B]
RWYS 06, 24 RNAV DEPARTURES
RNAV (GNSS)
RNAV 2 REQUIRED

SPEED RESTRICTION
MAX 220 KT until established
on track to
TUBIN 1A: LE1G2.
TUBIN 1B: TUBIN.



TUBIN
S30 02.0 E030 17.9
(TGV R-262/D50)



These SIDs require a minimum climb gradient
of
7% up to 3000'.

Gnd speed-KT	75	100	150	200	250	300
7% V/V(fpm)	532	709	1063	1418	1772	2127

COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

TUBIN 1A: Maintain runway track to LE015, turn LEFT to LE1G2, turn LEFT to LE1CF, then to TUBIN. Maintaining last assigned FL or MSA whichever is higher. Passing LE1CF climb to flight plan level, at TUBIN set course as per flight plan.

TUBIN 1B: Maintain runway track to LE2D2, maintaining last assigned FL or MSA whichever is higher. Then turn RIGHT to LE2CF, climb to flight plan level, at TUBIN set course as per flight plan.

Both SIDs: Aircraft wishing to return must continue to SID termination point and climb to last assigned FL or MSA or FL80 whichever is higher. At TUBIN proceed to DUNSA and comply with STAR DUNSA 1A (Rwy 06)/ DUNSA 1B (Rwy 24) communication failure procedure.

▼ COMMS ▼ LOST COMMS ▼ LOST COMMS ▼ LOST COMMS ▼

Initial climb clearance **FL70**, further climb under RADAR control.

SID	RWY	ROUTING
TUBIN 1A	06	On runway track to LE015, turn LEFT to LE1G2, turn LEFT to LE1CF, then to TUBIN, then as per flight plan.
TUBIN 1B	24	On runway track to LE2D2, turn RIGHT to LE2CF, then to TUBIN, then as per flight plan.

NOISE ABATEMENT

LT minus 2 HOURS = UTC (Z)

DEPARTURES

The below procedures apply to jet ACFT and may be disregarded if at 3000' AGL or when leveled off by ATC or when leveled by SID.

Take-off to 1500' AGL

- take-off power;
- take-off flaps;
- climb at $V_2 + 10$ to 20 KT or as limited by body angle;
- depending on ACFT type, the take-off power/thrust may be reduced at a lower height;

At 1500' AGL

- reduce thrust to not less than climb power/thrust;

1500' to 3000' AGL

- climb at $V_2 + 10$ to 20 KT;

At 3000' AGL

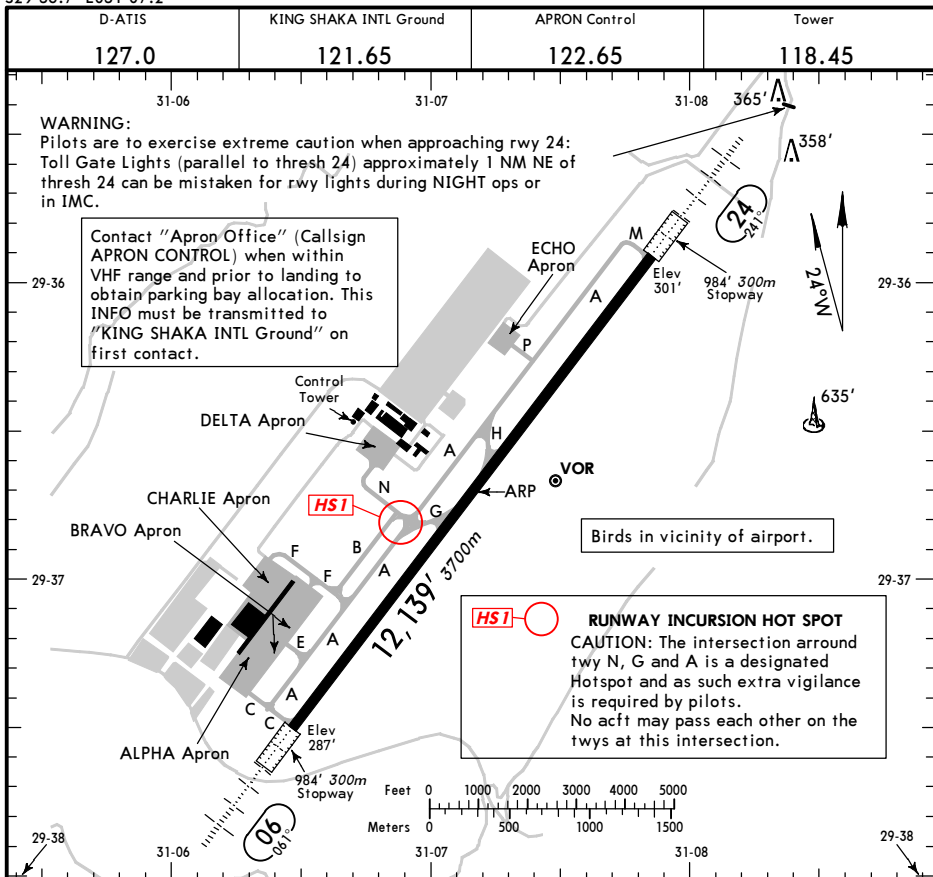
- accelerate smoothly to en-route climb speed with flap retraction on schedule.

No jet ACFT are to use RWY or TWY intersection for take-off between 2200-0600LT.

Apt Elev 304'
S29 36.7 E031 07.2

10 SEP 10 (20-9) Eff 23 Sep

KING SHAKA INTL



ADDITIONAL RUNWAY INFORMATION

RWY					USABLE LENGTHS		TAKE-OFF	WIDTH
					LANDING BEYOND	Glide Slope		
06	HIRL (60m) CL (15m) HIALS-II TDZ PAPI (3.0°) ①				Threshold	11,106' 3385m		197'
24	HIRL (60m) CL (15m) HIALS-II TDZ PAPI (3.0°) ②					11,045' 3367m		60m

- ① HST-H with HSTIL.
- ② HST-G with HSTIL.

PUSH-BACK PROCEDURE

Push-back, start and taxi clearances to be requested on GND.
Acft are not to request push-back until the TUG is connected and ready to push.
Before start is requested, acft must be ready for immediate push-back.

JAR-OPS

TAKE-OFF ①

All Rwys

	LVP must be in force			
	RL & CL	RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
A				
B	200m	250m	400m	500m
C				
D	250m	300m		

- ① Operators applying U.S. Ops Specs: CL required below 300m.

STRAIGHT-IN RWY		A	B	C	D
06	ILS ①	495' (208')	505' (218')	515' (228')	525' (238')
	<i>FULL</i>	R600m	R600m	R600m	R600m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	ILS ②	1129' (842')	1129' (842')	1129' (842')	1129' (842')
		R1500m	R1500m	C2400m	C2400m
	LOC ③④	660' (373')	660' (373')	660' (373')	660' (373')
		R1000m	R1000m	R1000m	R1400m
	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	LOC ⑤⑥	1300' (1013')	1300' (1013')	1300' (1013')	1300' (1013')
		R1500m	R1500m	C2400m	C2400m
	RNAV ⑦⑧	690' (403')	690' (403')	690' (403')	690' (403')
24		R1200m	R1400m	R1400m	R1800m
	<i>ALS out</i>	R1500m	R1500m	R2000m	R2000m
	RNAV ⑨⑩	1220' (933')	1220' (933')	1220' (933')	1220' (933')
		R1500m	R1500m	C2400m	C2400m
	VOR ⑪⑫	650' (363')	650' (363')	650' (363')	650' (363')
		R1000m	R1000m	R1000m	R1400m
	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	VOR ⑬⑭	1920' (1633')	1920' (1633')	1920' (1633')	1920' (1633')
		C5000m	C5000m	C5000m	C5000m
	ILS ①	501' (200')	501' (200')	508' (207')	518' (217')
	<i>FULL</i>	R550m	R550m	R600m	R600m
	<i>Limited</i>	R750m	R750m	R750m	R750m
	<i>ALS out</i>	R1200m	R1200m	R1200m	R1200m
	ILS ②	1133' (832')	1133' (832')	1133' (832')	1133' (832')
		R1500m	R1500m	C2400m	C2400m
	LOC ③④	670' (369')	670' (369')	670' (369')	670' (369')
		R1000m	R1000m	R1000m	R1400m
	<i>ALS out</i>	R1500m	R1500m	R1800m	R2000m
	LOC ⑤⑥	1310' (1009')	1310' (1009')	1310' (1009')	1310' (1009')
		R1500m	R1500m	C2400m	C2400m
	RNAV ⑦⑧	780' (476')	780' (476')	780' (476')	780' (476')
		R1500m	R1500m	R1500m	R1800m
	<i>ALS out</i>	R1500m	R1500m	C2200m	C2200m
	RNAV ⑨⑩	1260' (956')	1260' (956')	1260' (956')	1260' (956')
		R1500m	R1500m	C2400m	C2400m
	VOR ⑪⑫	870' (569')	870' (569')	870' (569')	870' (569')
		R1500m	R1500m	R1900m	R1900m
	<i>ALS out</i>	R1500m	R1500m	C2600m	C2600m
	VOR ⑬⑭	1300' (999')	1300' (999')	1300' (999')	1300' (999')
		R1500m	R1500m	C3800m	C3800m
	<i>ALS out</i>	R1500m	R1500m	C4500m	C4500m

① Missed apch climb gradient MIM 3.4%.

② Missed apch climb gradient MIM 2.5%.

③ Continuous Descent Final Approach.

④ Missed apch climb gradient MIM 3.5%.

⑤ Missed apch climb gradient MIM 3.9%.

⑥ Missed apch climb gradient MIM 3.6%.

⑦ Missed apch climb gradient MIM 3.2%.

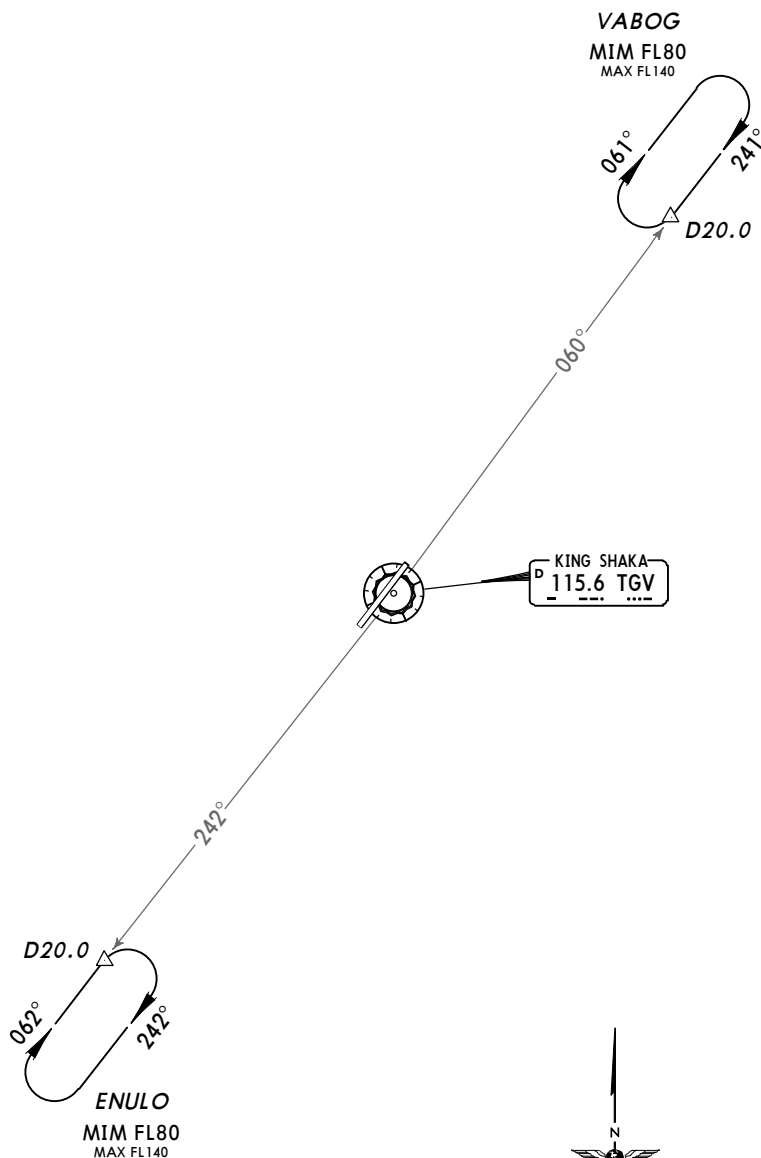
CIRCLE-TO-LAND	100 KT	135 KT	180 KT	205 KT
After apch to rwy 06 ❶	960'(673')	990'(703')	1170'(883')	1440'(1153')
After apch to rwy 24 ❷	960'(659')	990'(689')	1170'(869')	1440'(1139')
	V1500m ❸	V1600m ❸	V2400m ❸	V3600m ❸

- ❶ Circling height based on rwy 06 thresh elev of 287'.
- ❷ Circling height based on rwy 24 thresh elev of 301'.
- ❸ or higher minimums of preceding straight-in approach.

TAKE-OFF RWY 06, 24

	Approved Operators HIRL, CL & mult. RVR req	LVP must be in Force			RCLM (DAY only) or RL	RCLM (DAY only) or RL	NIL (DAY only)
		RL, CL & mult. RVR req	RL & CL	RCLM (DAY only) or RL			
A							
B	125m	150m	200m	250m	400m		500m
C							
D	150m	200m	250m	300m			

ENULO & VABOG HOLDINGS



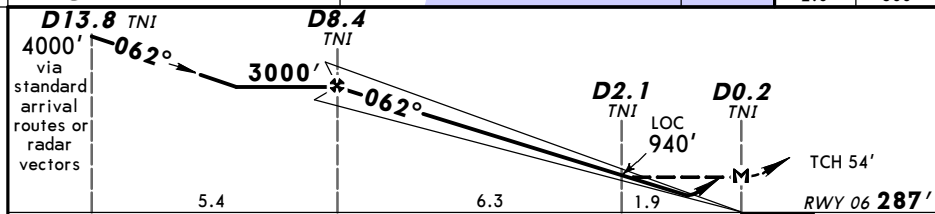
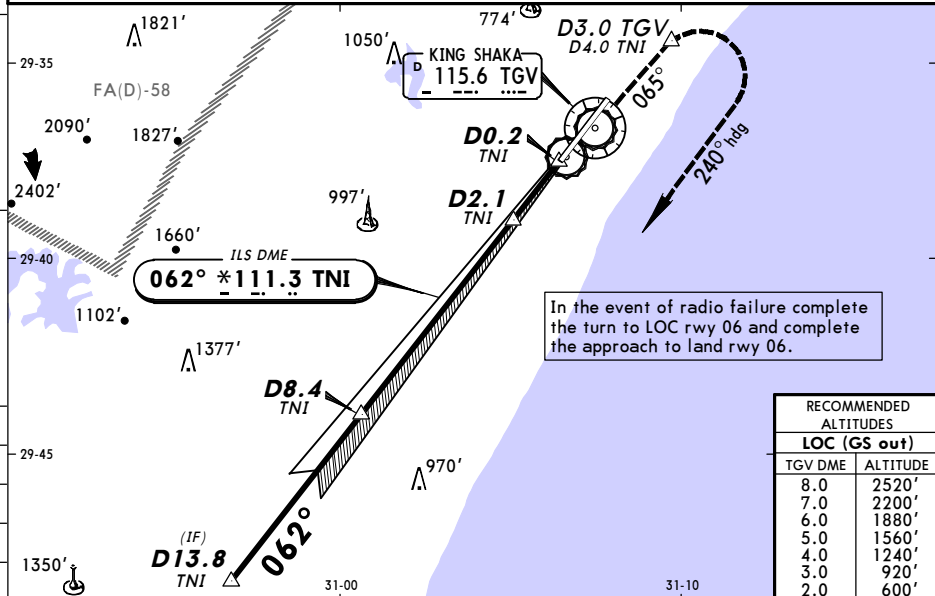
FALE/DUR KING SHAKA INTL

JEPPESSEN
10 SEP 10 (21-1) Eff 23 Sep

DURBAN, S AFR REP
ILS Z Rwy 06

D-ATIS	DURBAN Approach	KING SHAKA INTL Tower	Ground	APRON Control
127.0	125.75	118.45	121.65	122.65
LOC TNI *111.3	Final Aptch Crs 062°	GS D8.4 TNI 3000' (2713')	ILS DA(H) Refer to Minimums	Apt Elev 304' RWY 287'
MISSED APCH: Climb STRAIGHT AHEAD on R-065 TGV to D3.0 TGV/ D4.0 TNI or 3000', whichever is later, then turn RIGHT on heading 240° for radar vectors to LOC. MISSED APCH WITH COMM FAILURE: Climb STRAIGHT AHEAD on R-065 TGV to D3.0 TGV/D4.0 TNI or 3000', whichever is later, then turn RIGHT on heading 240° to intercept 12 DME Arc TGV westbound. Crossing R-225 TGV turn RIGHT on heading 035° to intercept LOC and land.				 MSA TGV VOR

Alt Set: hPa Rwy Elev: 10 hPa Trans level: By ATC Trans alt: 5500'
 1. VOR and DME required. 2. CAUTION: High ground West of airport. 3. Procedure only applicable via
 STAR or radar vectors.



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI PAPI	3000' D3.0 TGV D4.0 TNI	TGV via 115.6 R-065
ILS GS or LOC Descent Angle 3.00°	377	484	538	646	753	861		↑ whichever is later	
MAP at D0.2 TNI									

JAR-OPS				ILS STRAIGHT-IN LANDING RWY 06 LOC (GS out)				CIRCLE-TO-LAND	
Missed apch climb grad min 3.4%		Missed apch climb grad min 2.5%		Missed apch climb grad min 3.5%		Missed apch climb grad min 2.5%			
DA(H) D: 525' (238')		DA(H) 1129' (842')		MDA(H) 660' (373')		MDA(H) 1300' (1013')			
FULL		ALS out		FULL		ALS out			
A				RVR 900m	RVR 1500m	RVR 1200m	RVR 1500m	see 21-4A	
B				RVR 1000m	RVR 1800m	RVR 1400m	RVR 2000m		
C	RVR 600m	RVR 1000m	RVR 800m	RVR 1200m					
D				RVR 1400m	RVR 2000m	RVR 1800m			

1 DA(H) A: 495' (208'), B: 505' (218'), C: 515' (228').

CHANGES: None.

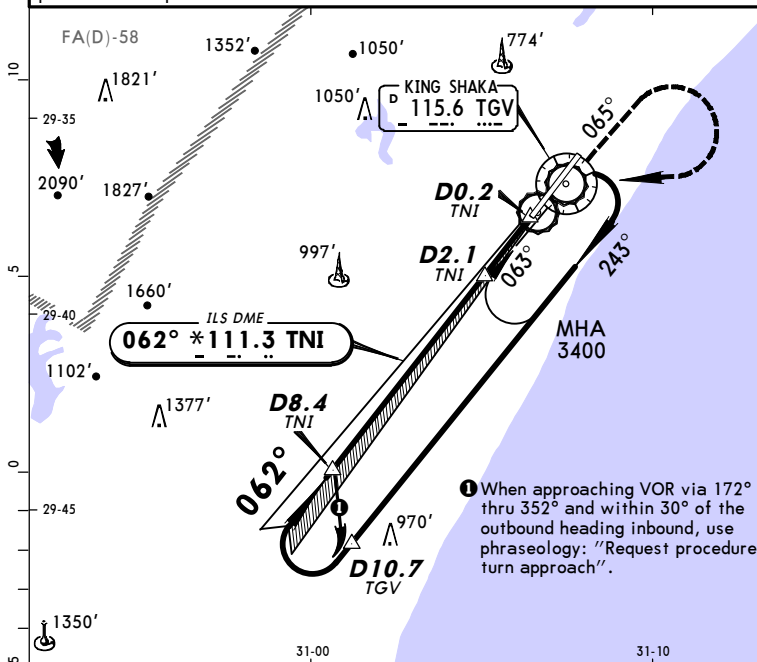
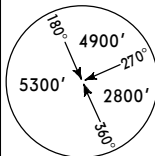
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FALE/DUR KING SHAKA INTL

JEPPESSEN
17 DEC 10 (21-2)

DURBAN, S AFR REP
ILS Y Rwy 06

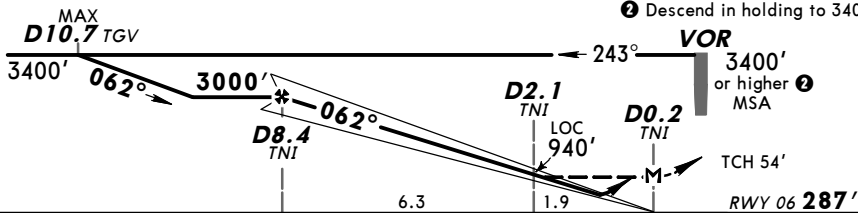
D-ATIS	DURBAN Approach	KING SHAKA INTL Tower	Ground	APRON Control
127.0	125.75	118.45	121.65	122.65
LOC TNI *111.3	Final Apch Crs 062°	GS D8.4 TNI 3000' (2713')	ILS DA(H) Refer to Minimums	Apt Elev 304' RWY 287'
MISSED APCH: Climb STRAIGHT AHEAD on R-065 TGV to 3000', then turn RIGHT to VOR climbing to 3400'.				
Alt Set: hPa Rwy Elev: 10 hPa Trans level: By ATC Trans alt: 5500'				
1. VOR and DME required. 2. CAUTION: High ground West of airport. 3. 080°/260° procedure turn prohibited.				
MSA TGV VOR				



① When approaching VOR via 172° thru 352° and within 30° of the outbound heading inbound, use phraseology: "Request procedure turn approach".

RECOMMENDED ALTITUDES	
LOC (GS out)	
TGV DME	ALTITUDE
8.0	2520'
7.0	2200'
6.0	1880'
5.0	1560'
4.0	1240'
3.0	920'
2.0	600'

② Descend in holding to 3400'.



Gnd speed-Kts	70	90	100	120	140	160
ILS GS or LOC Descent Angle 3.00°	377	484	538	646	753	861
MAP at D0.2 TNI						

HTALS-II PAPI PAPI	3000' TGV on 115.6 RT R-065
-----------------------	-----------------------------------

JAR-OPS		STRAIGHT-IN LANDING RWY 06						LOC (GS out)		CIRCLE-TO-LAND
Missed apch climb grad mim 3.4%		Missed apch climb grad mim 2.5%		Missed apch climb grad mim 3.5%		Missed apch climb grad mim 2.5%				
DA(H) D: 525'(238')		DA(H) 1129'(842')		MDA(H) 660'(373')		MDA(H) 1300'(1013')				
FULL		ALS out		FULL		ALS out		ALS out		
A					RVR 900m	RVR 1500m	RVR 1200m	RVR 1500m	see 21-4A	
B					RVR 1000m		RVR 1400m			
C	RVR 600m	RVR 1000m	RVR 800m	RVR 1200m		RVR 1800m		RVR 2000m		
D					RVR 1400m	RVR 2000m	RVR 1800m			

① DA(H) A: 495' (208'), B: 505' (218'), C: 515' (228').

CHANGES: None.

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PANS OPS

FALE/DUR KING SHAKA INTL

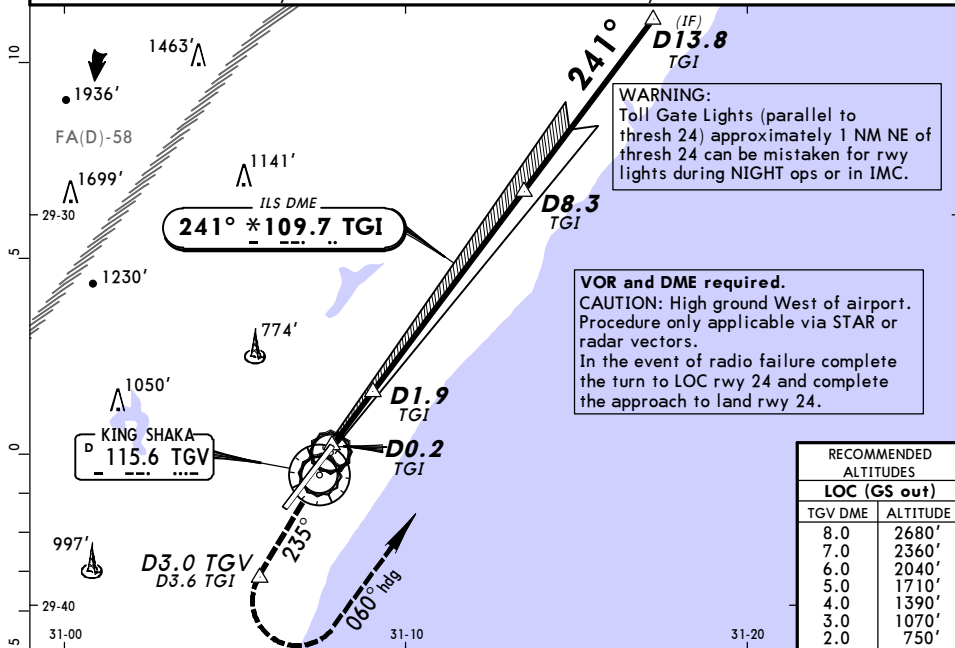
JEPPESSEN
17 DEC 10 (21-3)

DURBAN, S AFR REP
ILS Z Rwy 24

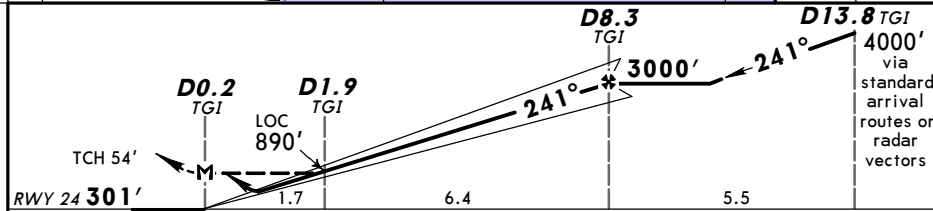
D-ATIS	DURBAN Approach	KING SHAKA INTL Tower	Ground	APRON Control
127.0	125.75	118.45	121.65	122.65
LOC TGI *109.7	Final Apch Crs 241°	GS D8.3 TGI 3000' (2699')	ILS DA(H) Refer to Minimums Apt Elev 304' RWY 301'	<p>MSA TGV VOR</p>

MISSED APCH: Climb STRAIGHT AHEAD on R-235 TGV to D3.0 TGV/
D3.6 TGI or 3000', whichever is later, then turn LEFT on
heading 060° for radar vectors to LOC. **MISSED APCH WITH COMM**
FAILURE: Climb STRAIGHT AHEAD on R-235 TGV to D3.0 TGV/D3.6 TGI or 3000',
whichever is later, then turn LEFT on heading 060° to intercept 12 DME Arc TGV
westbound. Crossing R-079 TGV turn LEFT on heading 215° to intercept LOC and land.

Alt Set: hPa Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5500'



RECOMMENDED ALTITUDES	
LOC (GS out)	
TGV DME	ALTITUDE
8.0	2680'
7.0	2360'
6.0	2040'
5.0	1710'
4.0	1390'
3.0	1070'
2.0	750'



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	3000' D3.0 TGV D3.6 TGI	TGV via 115.6 R-235
ILS GS or LOC Descent Angle 3.00°	377	484	538	646	753	861		↑ whichever is later	

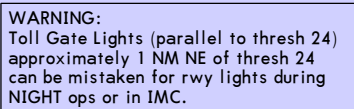
JAR-OPS				STRAIGHT-IN LANDING Rwy 24				CIRCLE-TO- LAND	
ILS		LOC (GS out)		ILS		LOC (GS out)			
DA(H) D: 518' (217')	3.4%	Missed apch climb grad mim 2.5%	DA(H) 1133' (832')	MDA(H) 670' (369')	3.5%	Missed apch climb grad mim 2.5%	MDA(H) 1310' (1009')		
FULL	ALS out	FULL	ALS out	ALS out	ALS out	ALS out	ALS out		
A	RVR 550m			RVR 900m	RVR 1500m	RVR 1200m	RVR 1500m	see 21-4A	
B				RVR 1000m	RVR 1800m	RVR 1400m			
C	RVR 600m	RVR 1000m	RVR 800m	RVR 1200m			RVR 2000m		
D				RVR 1400m	RVR 2000m	RVR 1800m			

DA(H) AB: 501' (200'), C: 508' (207').

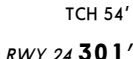
CHANGES: Warning note.

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MSA TGV VOR



RECOMMENDED ALTITUDES	
LOC (GS out)	
TGV DME	ALTITUDE
8.0	2680'
7.0	2360'
6.0	2040'
5.0	1710'
4.0	1390'
3.0	1070'
2.0	750'



HIALS-II
PAPI...PAP

see 21-4A

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CIRCLE-TO-LAND			
ENTIRELY AT PILOTS DISCRETION			
MISSED APCH CLIMB GRADIENT MIN 3.4% & MISSED APCH CLIMB GRADIENT MIN 3.5%			
JAR-OPS		JAR-OPS	
Rwy 06 1		Rwy 24 2	
After ILS & LOC		After ILS & LOC	
Max Kts.	MDA(H) VIS	MDA(H) VIS	
100	960' (673') 1500m	960' (659') 1500m	
135	990' (703') 1600m	990' (689') 1600m	
180	1170' (883') 2400m	1170' (869') 2400m	
205	1440' (1153') 3600m	1440' (1139') 3600m	
MISSED APCH CLIMB GRADIENT MIN 2.5%			
JAR-OPS		JAR-OPS	
Rwy 06 1		Rwy 24 2	
After ILS		After LOC	
Max Kts.	MDA(H) VIS	MDA(H) VIS	
100	1130' (843') 1500m	1300' (1013') 1500m	
135	1130' (843') 1600m	1300' (1013') 1600m	
180	1170' (883') 2400m	1300' (1013') 2400m	
205	1440' (1153') 3600m	1440' (1153') 3600m	
JAR-OPS		JAR-OPS	
Rwy 24 2		Rwy 24 2	
After ILS		After LOC	
Max Kts.	MDA(H) VIS	MDA(H) VIS	
100	1140' (839') 1500m	1310' (1009') 1500m	
135	1140' (839') 1600m	1310' (1009') 1600m	
180	1170' (869') 2400m	1310' (1009') 2400m	
205	1440' (1139') 3600m	1440' (1139') 3600m	
<div><div>1 Circling height based on rwy 06 thresh elev of 287'.</div><div>2 Circling height based on rwy 24 thresh elev of 301'.</div></div>			

DURBAN, S AFR REP
RNAV (GNSS) Rwy 06

BRIEF

5.

PANS OPS

PANS OPS

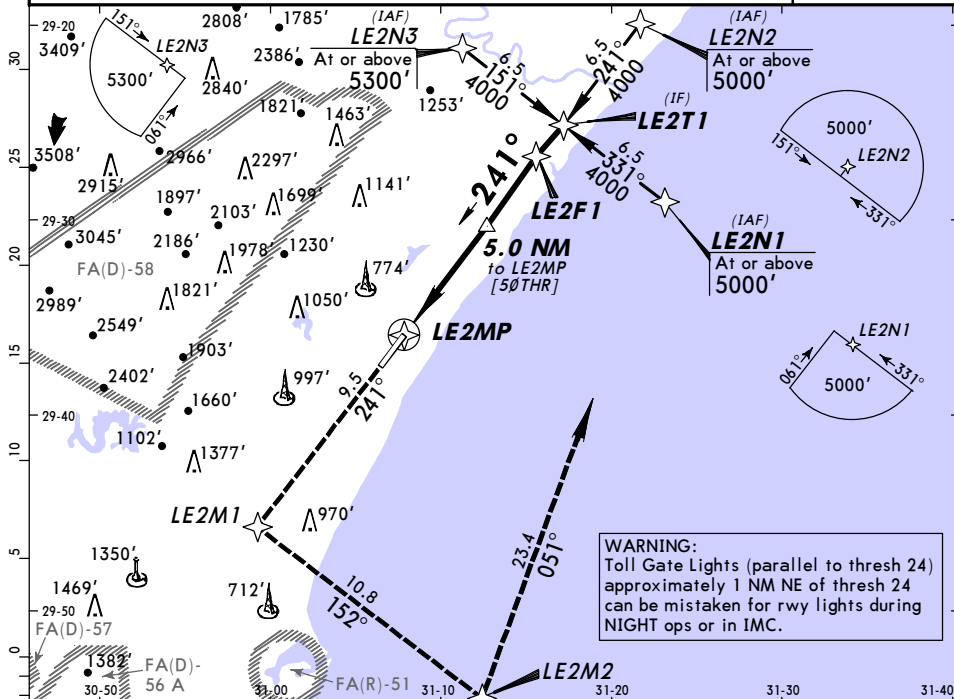
PANS OPS

FALE/DUR KING SHAKA INTL

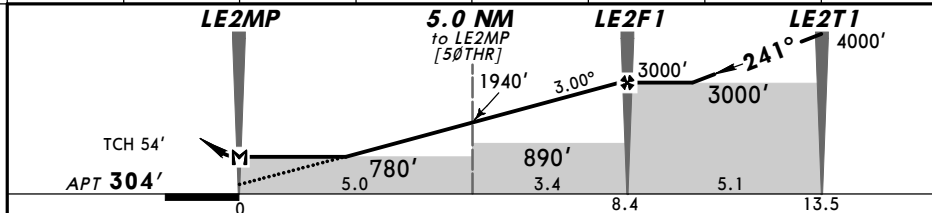
JEPPESSEN
5 NOV 10 (22-2) Eff 18 Nov

DURBAN, S AFR REP
RNAV (GNSS) Rwy 24

D-ATIS	DURBAN Approach	KING SHAKA INTL Tower	Ground	APRON Control
127.0	125.75	118.45	121.65	122.65
RNAV	Final ApcH Crs 241°	Procedure Alt LE2F1 3000' (2696')	LNAV MDA(H) Refer to Minimums	Apt Elev 304'
MISSED APCH: Climb STRAIGHT AHEAD to 3000' via LE2M1 to LE2M2, then turn LEFT to LE2N1 for radar vectors.				TAA 25 NM IAF
Alt Set: hPa Apt Elev: 11 hPa Trans level: By ATC Trans alt: 5500'				
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED.				



DIST to LE2MP	2.0	3.0	4.0	5.0	6.0	7.0	8.0
ALTITUDE	990'	1310'	1620'	1940'	2260'	2570'	2890'



Gnd speed-Kts	70	90	100	120	140	160	
Descent Angle 3.00°	372	478	531	637	743	849	
MAP at LE2MP							

JAR-OPS				STRAIGHT-IN LANDING RWY 24				CIRCLE-TO-LAND			
				LNAV							
				Missed apch climb grad mim 3.9%				Missed apch climb grad mim 2.5%			
				MDA(H) 780' (476')				MDA(H) 1260' (956')			
				ALS out				ALS out			
A	RVR 1200m	RVR 1500m		RVR 1200m	RVR 1500m			Max Kts	MDA(H)	VIS	
B	RVR 1400m	RVR 1500m		RVR 1400m	RVR 1500m			100	960' (656')	1500m	
C	RVR 1800m	RVR 2000m		RVR 1800m	RVR 2000m			135	990' (686')	1600m	
D	RVR 1800m	RVR 2000m		RVR 1800m	RVR 2000m			180	1170' (866')	2400m	
								205	1440' (1136')	3600m	

After approach with missed apch climb grad mim 2.5%: MDA(H) 1260' (956').

CHANGES: Procedure.

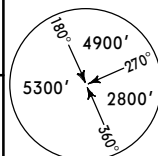
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FALE/DUR KING SHAKA INTL

JEPPESEN
17 DEC 10 (23-1)

DURBAN, S AFR REP
VOR Z Rwy 06

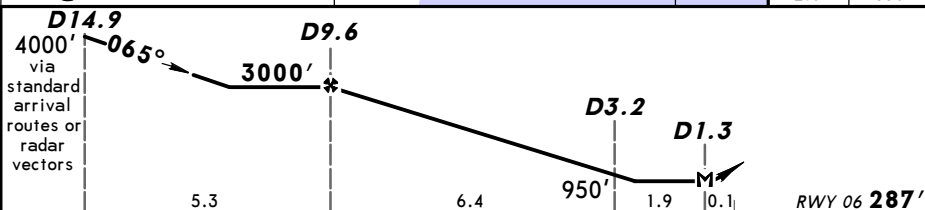
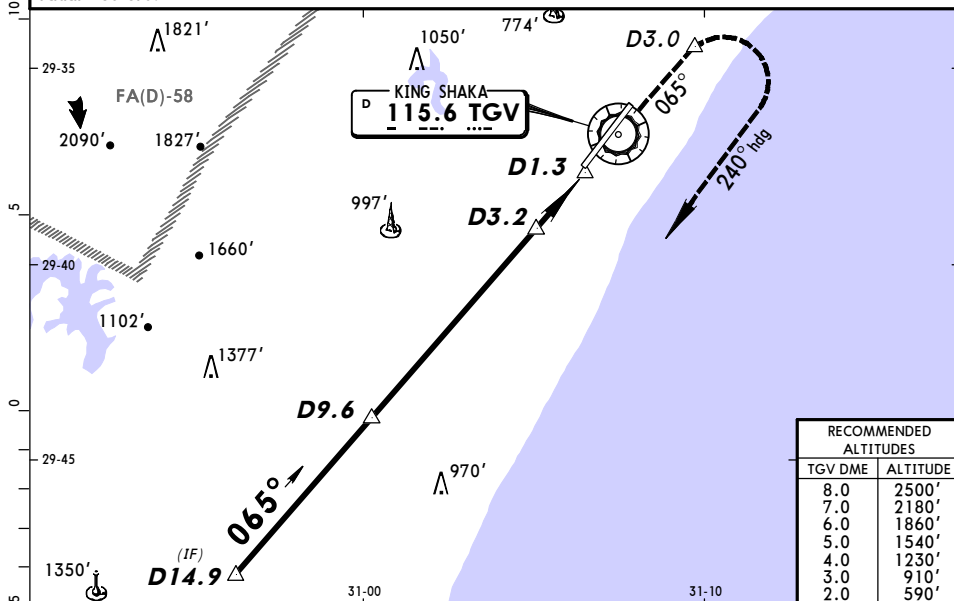
D-ATIS	DURBAN Approach	KING SHAKA INTL Tower	Ground	APRON Control
127.0	125.75	118.45	121.65	122.65
VOR TGV 115.6	Final Apch Crs 065°	Minimum Alt D9.6 3000' (2713')	MDA(H) (CONDITIONAL) 650' (363') Apt Elev 304' RWY 287'	



MSA TGV VOR

MISSED APCH: Climb STRAIGHT AHEAD on R-065 to D3.0 or 3000', whichever is later, then turn RIGHT on heading 240° for radar vectors. **MISSED APCH WITH COMM FAILURE:** Climb STRAIGHT AHEAD on R-065 to D3.0 or 3000', whichever is later, then turn RIGHT on heading 240° to intercept 12 DME Arc westbound. Crossing R-225 turn RIGHT on heading 035° to intercept R-245 and land.

Alt Set: hPa Rwy Elev: 10 hPa Trans level: By ATC Trans alt: 5500'
1. DME required. 2. CAUTION: High ground West of airport. 3. Procedure only applicable via STAR or radar vectors.



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI	3000' D3.0 TGV PAPI	which ever is later	via 115.6 R-065
Descent Angle 3.00°	372	478	531	637	743	849				
MAP at D1.3										

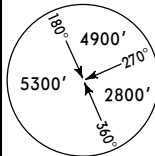
JAR-OPS STRAIGHT-IN LANDING RWY 06				CIRCLE-TO-LAND			
Missed apch climb grad mim 3.6% MDA(H) 650' (363')		Missed apch climb grad mim 2.5% MDA(H) 1920' (1633')		ENTIRELY AT PILOTS DISCRETION			
ALS out		ALS out		Max Kts	MDA(H)	VIS	
A	RVR 900m			100	2 960' (673')	1500m	
B	RVR 1000m	RVR 1500m	RVR 1200m	135	2 990' (703')	1600m	
C		RVR 1800m	RVR 1400m	180	2 1170' (883')	2400m	
D	RVR 1400m	RVR 2000m	RVR 1800m	205	2 1440' (1153')	3600m	

1 Circling height based on rwy 06 thresh elev of 287'.
2 After missed apch climb grad mim 2.5%: MDA(H) 1920' (1633').

CHANGES: None.

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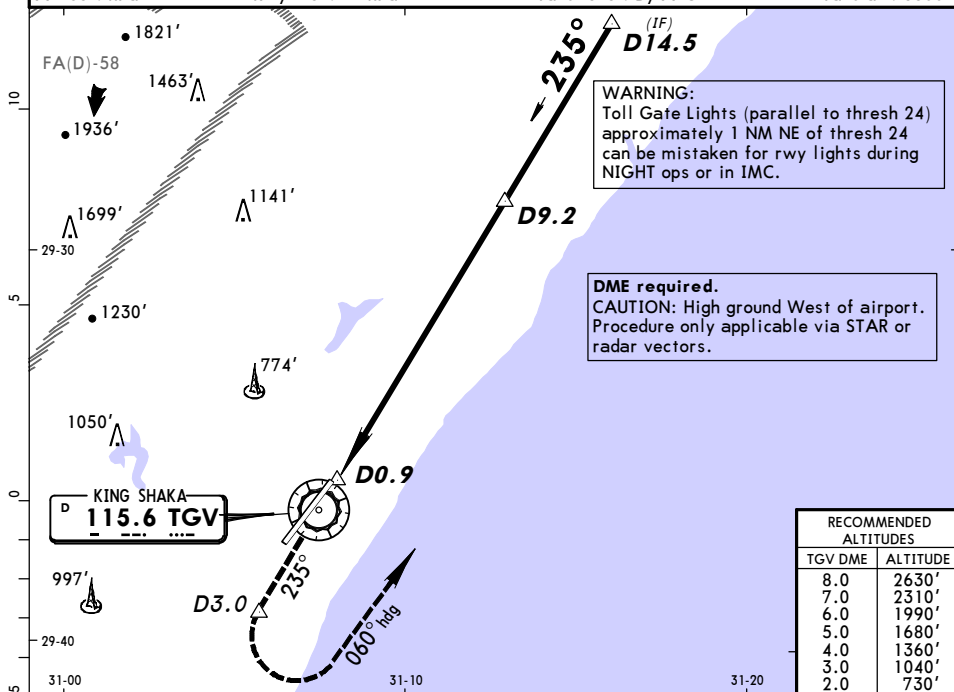
D-ATIS 127.0	DURBAN Approach 125.75	KING SHAKA INTL Tower 118.45	Ground 121.65	APRON Control 122.65
VOR TGV 115.6	Final Apch Crs 235°	Minimum Alt D9.2 3000' (2699')	MDA(H) (CONDITIONAL) 870' (569')	Apt Elev 304' RWY 301'



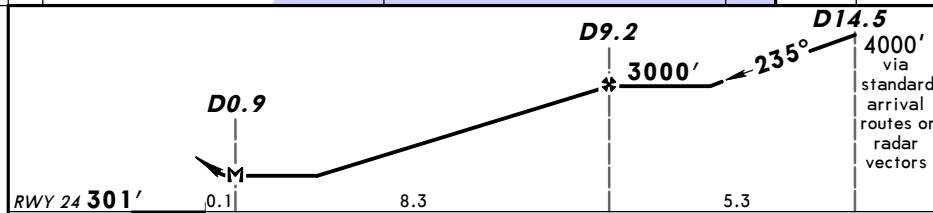
MISSED APCH: Climb STRAIGHT AHEAD on R-235 to D3.0 or 3000', whichever is later, then turn LEFT on heading 060° for radar vectors. **MISSED APCH WITH COMM FAILURE:** Climb STRAIGHT AHEAD on R-235 to D3.0 or 3000', whichever is later, then turn LEFT on heading 060° to intercept 12 DME Arc westbound. Crossing R-074 turn LEFT on heading 215° to intercept R-055 and land.

MSA TGV VOR

Alt Set: hPa Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 5500'



RECOMMENDED ALTITUDES		
TGV DME	ALTITUDE	
8.0	2630'	
7.0	2310'	
6.0	1990'	
5.0	1680'	
4.0	1360'	
3.0	1040'	
2.0	730'	



Gnd speed-Kts	70	90	100	120	140	160			
Descent Angle 3.00°	372	478	531	637	743	849			
MAP at D0.9									

JAR-OPS				STRAIGHT-IN LANDING RWY 24				CIRCLE-TO-LAND			
Missed apch climb grad mim 3.2% MDA(H) 870' (569')				Missed apch climb grad mim 2.5% MDA(H) 1300' (999')				ENTIRELY AT PILOTS DISCRETION			
ALS out				ALS out				Max Kts			
A	RVR 1000m	RVR 1500m	RVR 1200m	RVR 1500m	RVR 1200m	RVR 1500m	RVR 1200m	100	2 960' (659')	1500m	
B	RVR 1200m							135	2 990' (689')	1600m	
C	RVR 1600m	RVR 2000m	RVR 1800m	RVR 2000m	RVR 1800m	RVR 2000m	RVR 1800m	180	2 1170' (869')	2400m	
D	RVR 1600m							205	1440' (1139')	3600m	

1 Circling height based on rwy 24 thresh elev of 301'.

2 After missed apch climb grad mim 2.5%: MDA(H) 1300' (999').