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**AIRAC AIP
SUPPLEMENT**

NR 04/26
DATE:19/08/2026

page 1 of 5

Effective Date: 01/10/2026 0001UTC

Validity: PERM - Until Incorporated into the Kuwait AIP

AMENDMENT OF INSTRUMENT FLIGHT PROCEDURE CHARTS

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1. INTRODUCTION

This AIRAC AIP Supplement announces the publication of amended Instrument Flight Procedure (IFP) charts for Kuwait International Airport (OKKK).

The amended procedures have been developed by the PANS OPS Designer in coordination with the Kuwait DGCA Air Navigation Department following:

- Flight Validation
- Operational Trial
- Operational Feedback
- Post-Implementation Safety Assessment (PIRA)
- Approval by the Kuwait Aviation Safety Department.

The purpose of these amendments is to implement all approved operational safety mitigations identified during the Post-Implementation Risk Assessment while maintaining compliance with ICAO PANS-OPS requirements.

2. BACKGROUND

Following the implementation of the new Instrument Flight Procedures associated with the operational use of the new runway configuration at Kuwait International Airport, the Air Navigation Department conducted a comprehensive Post-Implementation Risk Assessment.

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KUWAIT

The assessment included:

- operational observations;
- ATCO reports;
- pilot feedback;
- procedure design review;
- safety recommendations;
- validation findings.

Based on these activities, the PANS OPS Designer prepared revised Instrument Flight Procedure charts incorporating all approved mitigations.

3. PURPOSE

This AIRAC AIP Supplement is issued to:

- publish the revised Instrument Flight Procedure charts.
- replace the currently published charts.
- ensure all aircraft operators use the amended procedures.
- enhance operational safety.
- standardise operational application.

4. OPERATIONAL APPLICABILITY

From:

0001 UTC 01 October 2026

the charts contained in this Supplement shall supersede the equivalent charts currently published in the Kuwait AIP.

Whenever a difference exists between:

- Kuwait AIP
- this Supplement

the procedures contained in this Supplement shall prevail.

5. SUMMARY OF CHANGES

The amended charts incorporate operational improvements resulting from the Post-Implementation Safety Assessment.

The principal amendments include:

Revision of procedure design where required.

Updated chart presentation.

Improvement of situational awareness.

Correction of identified operational issues.

Updated altitude constraints.

Updated speed restrictions.

Revised ATC notes.

Revised missed approach instructions.

Improved waypoint identification.

Updated textual notes.

Editorial corrections.

Improved consistency between procedures.

6. REPLACEMENT CHARTS

The following charts are replaced by this Supplement.

Current Chart	New Chart	Remarks
SID RWY 34	SID RWY 34	Replaced
SID RWY 16	SID RWY 16	Replaced
SID RWY 15R	SID RWY 15R	Replaced
SID RWY 33L	SID RWY 33L	Replaced
STAR RWY 34/33L	STAR RWY 34/33L	Replaced
STAR RWY 16/15R	STAR RWY 16/15R	Replaced
ILS I/II RWY 34	ILS I/II RWY 34	Replaced
ILS I/II RWY 33L	ILS I/II RWY 33L	Replaced
ILS I/II RWY 15R	ILS I/II RWY 15R	Replaced
ILS I/II RWY 16	ILS I/II RWY 16	Replaced
RNP RWY 34	RNP RWY 34	Replaced
RNP RWY 33L	RNP RWY 33L	Replaced
RNP RWY 15R	RNP RWY 15R	Replaced
RNP RWY 16	RNP RWY 16	Replaced

7. INSTRUCTIONS TO AIRCRAFT OPERATORS

Aircraft operators shall ensure that:

- Flight Management Systems are updated.
- Flight crews are briefed.
- Flight dispatch uses the revised procedures.
- Electronic Flight Bags contain the revised charts.
- Flight crews discontinue use of the superseded charts from the effective AIRAC date.

8. FUTURE PUBLICATION

The amended charts will be permanently incorporated into the Kuwait AIP by a future AIRAC AIP Amendment.

Upon publication of that Amendment, this Supplement will be cancelled.

APPENDIX A

SUMMARY OF INDIVIDUAL CHART CHANGES

Chart	Amendment
RNAV1 (GNSS) SID RWY 15R	ALL SPEED (KT) DATA IN SIDS ALVAX5E RNAV1, ASVIR5E RNAV1, BOXIK5E RNAV1, KATOD1L RNAV1, DEKOB1L RNAV1, NIDAP1L RNAV1 AND PROCEDURE TABULAR DESCRIPTION ARE REMOVED RALKA5E RNAV1 REMOVED. SID TASMI5E RNAV1 ADDED.
RNAV1 (GNSS) SID RWY 16	RALKA1K RNAV1 REMOVED. SID TASMI1K RNAV1 ADDED.
RNAV1 (GNSS) SID RWY 33L	ALL SPEED (KT) DATA IN SIDS ASVIR5F RNAV1, DEKOB1J RNAV1, KATOD1J RNAV1 AND NIDAP1J RNAV1 PROCEDURE TABULAR DESCRIPTION ARE REMOVED
RNAV1 (GNSS) SID RWY 34	ALL SPEED (KT) DATA IN SIDS ASVIR1I RNAV1, DEKOB1I RNAV1, KATOD1I RNAV1 AND NIDAP1I RNAV1 PROCEDURE TABULAR DESCRIPTION ARE REMOVED
RNAV1 (GNSS) STAR RWY 34/33L	A) ALL SPEED (KT) DATA IN STARS ASVIR1H RNAV1, DEBT11H RNAV1, DESLU1H RNAV1, KUNRU1H RNAV1, RALKA1H RNAV1, SESRU1H RNAV1, SIDAD1H RNAV1 AND SOROR1H RNAV1 PROCEDURE TABULAR DESCRIPTION ARE REMOVED EXCEPT AT IAF TABTO AND PEDEL B) CHART NOTE ON IAF TABTO AMENDED
RNAV1 (GNSS) STAR RWY 16/15R	ALL SPEED (KT) DATA IN STARS ASVIR1G RNAV1, ASVIR1M RNAV1, DEBT11G RNAV1, DESLU1G RNAV1, KUNRU1G RNAV1, KUNRU1M RNAV1, RALKA1G RNAV1, SESRU1G RNAV1, SIDAD1G RNAV1, SOROR1G RNAV1 AND SOROR1M RNAV1 PROCEDURE TABULAR DESCRIPTION ARE REMOVED EXCEPT AT IAF ELOSA AND EMEMI
ILS I/II RWY 34	MISSED APPROACH PROCEDURE AMENDED, KK400 POSITION AND RELATED TRACKS ARE CHANGED
RNP RWY 34	MISSED APPROACH PROCEDURE AMENDED, KK400 POSITION AND RELATED TRACKS ARE CHANGED

APPENDIX B

- 1- ILS RWY 15R
- 2- ILS RWY 16
- 3- ILS RWY 33L
- 4- ILS RWY 34
- 5- RNP RWY 15R
- 6- RNP RWY 16
- 7- RNP RWY 33L
- 8- RNP RWY 34
- 9- RNAV1 (GNSS) SID RWY 15R
- 10- RNAV1 (GNSS) SID RWY 16
- 11- RNAV1 (GNSS) SID RWY 33L
- 12- RNAV1 (GNSS) SID RWY 34
- 13- RNAV1 (GNSS) STAR RWY 16/15R
- 14- RNAV1 (GNSS) STAR RWY 34/33L

9. CANCELLATION OF NOTAMs

WITH EFFECT FROM 0001 UTC ON 01 OCTOBER 2026, ALL NOTAMs ASSOCIATED WITH THE INSTRUMENT FLIGHT PROCEDURES AND CHARTS COVERED BY THIS AIRAC AIP SUPPLEMENT ARE HEREBY CANCELLED .

THE FOLLOWING NOTAMs ARE CANCELLED :-

- A0434/25
- A0491/25
- A0509/25
- A0510/25
- A0512/25
- A0513/25
- A0514/25
- A0515/25
- A0516/25
- A0517/25
- A0518/25

THE INFORMATION CONTAINED IN THE ABOVE NOTAMs IS SUPERSEDED BY THE PROVISIONS AND REVISED CHATS PUBLISHED IN THIS AIRAC AIP SUPPLEMENT.

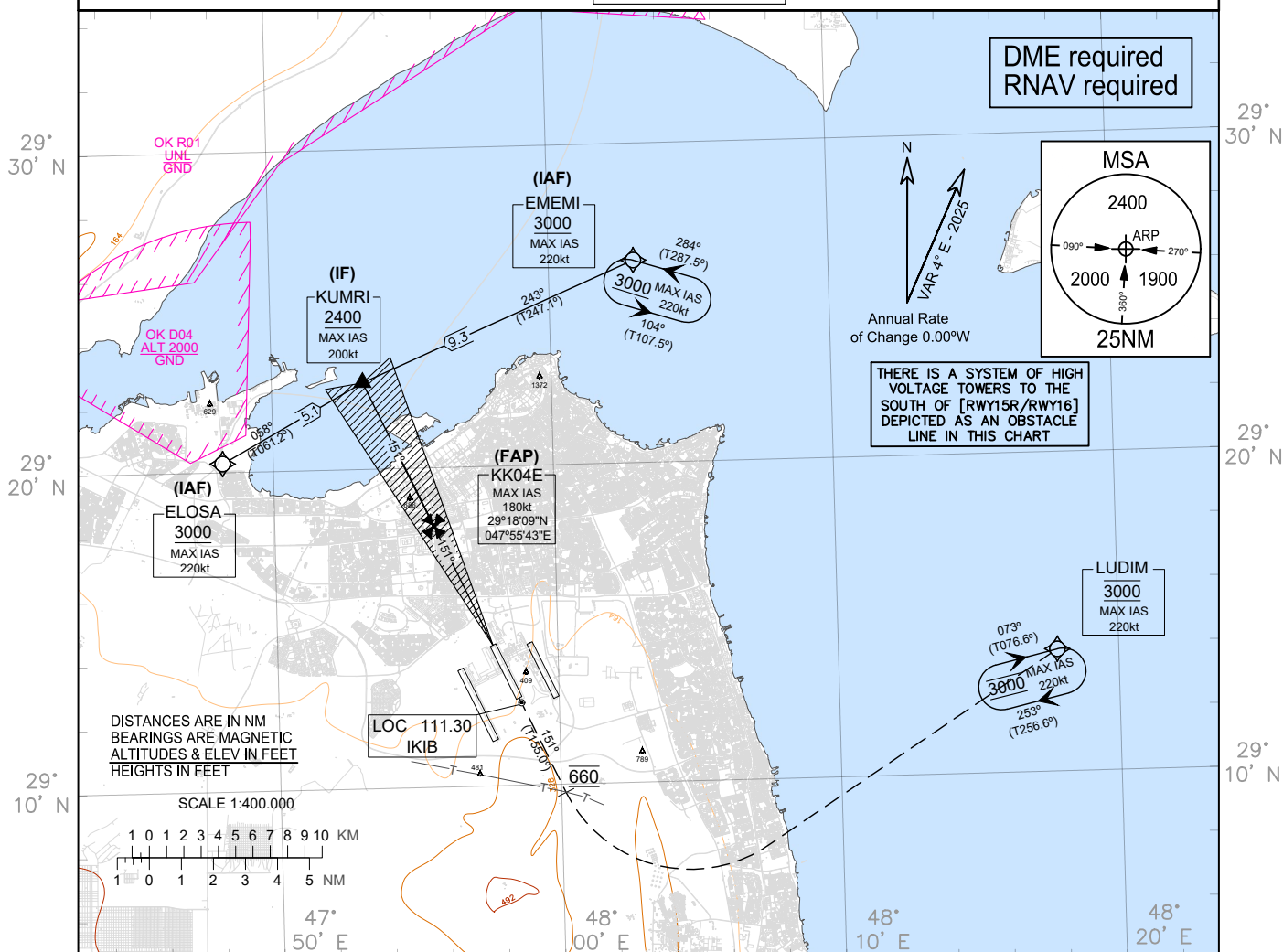
NOTE :- THIS AIRAC AIP SUPPLEMENT CONTAINS CHARTS .

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AD 2.OKKK-69

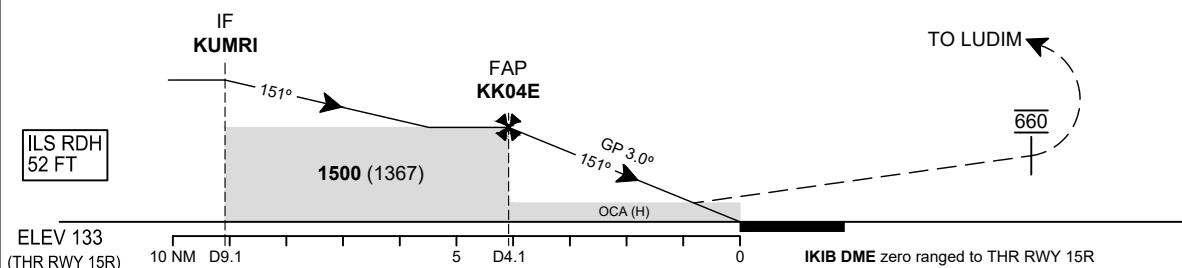
INSTRUMENT APPROACH CHART - ICAO	AD ELEV 204 FT VAR 4°E HEIGHTS RELATED TO THR RWY 15R ELEV 133 FT	APP 124.800 TWR 118.300 GMC 121.700 GMC-W 121.850 ATIS 126.225	KUWAIT / Kuwait Intl STATE OF KUWAIT ILS RWY 15R CAT I/II
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Trans Level *FL 150*
Trans Alt *13000*

MISSED APPROACH:

Climb on course 151°, at 660 ft turn left direct to LUDIM and hold at 3000ft.



OCA (H)			A	B	C	D	E	MAX IAS 250 knots at and below 10,000 ft.					
Straight-in Approach	CAT I		333 (200)	343 (210)	351 (218)	362 (229)	362 (229)						
	CAT II		233 (100)										
Circling (HAA)			780(580)	870 (670)	1190 (990)		1290(1090)						
WAYPOINTS					DIST from DME (IKIB)		NM	1.0	2.0	3.0	4.0	4.1	
ELOSA	N29 20 18.09	E047 48 11.92	ALT QNH			FT	510	830	1150	1480	1500		
EMEMI	N29 26 21.76	E048 03 02.28	Ground speed			KTS	80	100	120	140	160	180	
KUMRI	N29 22 41.14	E047 53 17.95	Rate of descent			FT/MIN	425	531	637	743	849	955	
KK04E	N29 18 08.59	E047 55 43.07											
LUDIM	N29 13 50.77	E048 17 48.95											

KUWAIT International Airport

ILS RWY 15R

POINT	LAT	LON	TRUE BEARING (°)	DME DISTANCE (NM)
KUMRI (IF)	292241.1381N	475317.9483E	155.02° (LOC 15R)	9.08 (DME LOC15R)
KK04E (FAP)	291808.5851N	475543.0685E	155.02° (LOC 15R)	4.08 (DME LOC15R)
Precision approach-slope (Descent angle)				3.00° (5.24%)

WAYPOINTS COORDINATES	
WPT	COORD
ELOSA (IAF)	29°20'18.1"N 047°48'11.9"E
EMEMI (IAF)	29°26'21.8"N 048°03'02.3"E
KK04E (FAP)	29°18'08.6"N 047°55'43.1"E
KUMRI (IF)	29°22'41.2"N 047°53'18.0"E
LUDIM	29°13'50.8"N 048°17'49.0"E

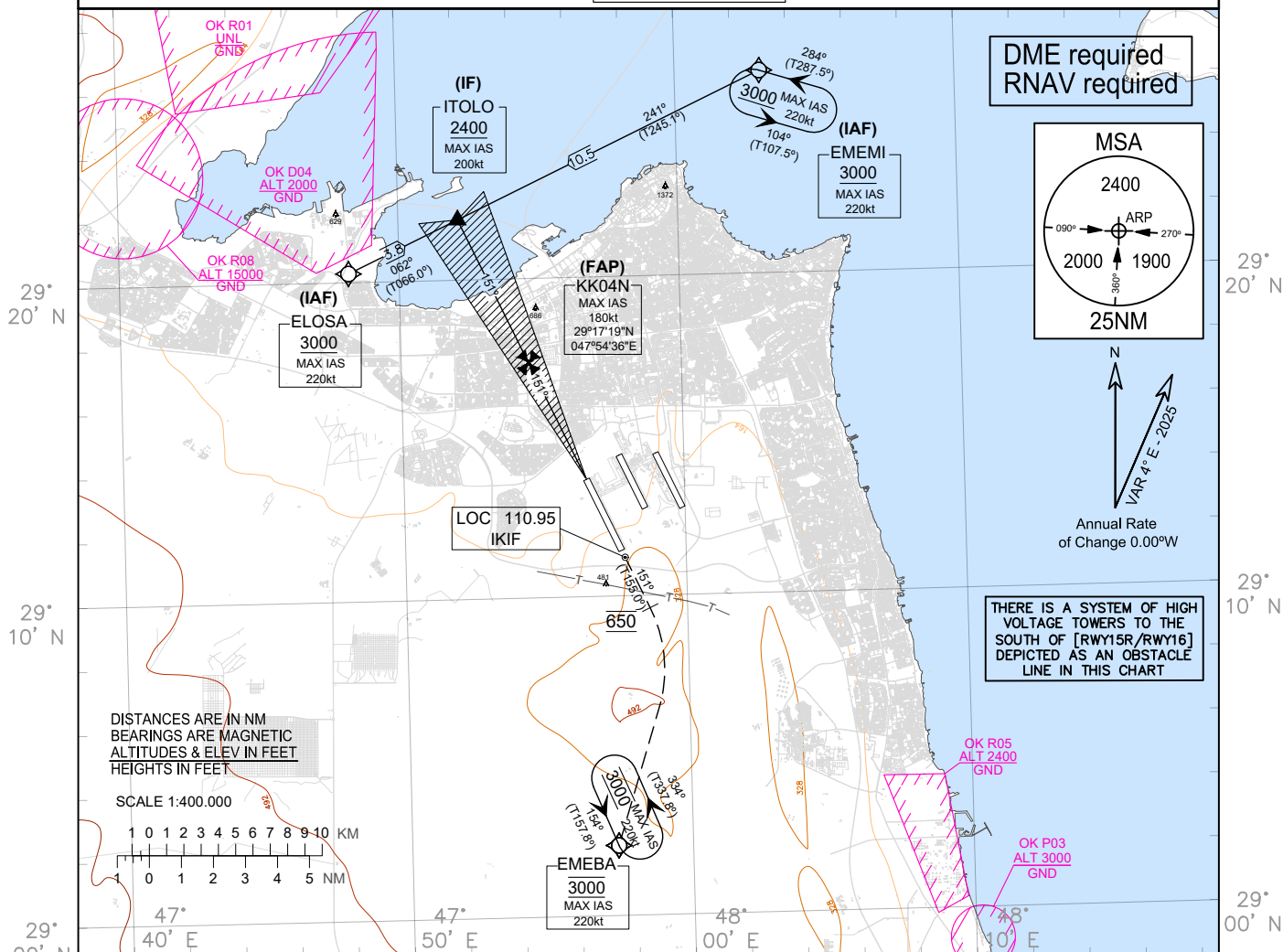
PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ELOSA (IAF) RNAV1											
001	IF	ELOSA	-	-	-3.7	-	-	+3000	-220	-	RNAV1
002	TF	KUMRI	-	058 (061.9)	-3.7	5.1	-	+2400	-200	-	RNAV1
SEE CHART ILS RWY 15R											
003	CA	-	-	151 (155.0)	-3.7	-	-	660	-	-	RNAV1
004	DF	LUDIM	-	-	-3.7	-	L	@3000	-220	-	RNAV1
EMEMI (IAF) RNAV1											
001	IF	EMEMI	-	-	-3.7	-	-	+3000	-220	-	RNAV1
002	TF	KUMRI	-	243(246.7)	-3.7	9.3	-	+2400	-200	-	RNAV1
SEE CHART ILS RWY 15R											
003	CA	-	-	151 (155.0)	-3.7	-	-	660	-	-	RNAV1
004	DF	LUDIM	-	-	-3.7	-	L	@3000	-220	-	RNAV1

Path Terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
RNAV 1 REQUIRED									
HM	EMEMI	284 (287.5)	-3.7	1 min	L	3000	-	-220	RNAV1
HM	LUDIM	073 (076.6)	-3.7	1 min	R	3000	3000	-220	RNAV1

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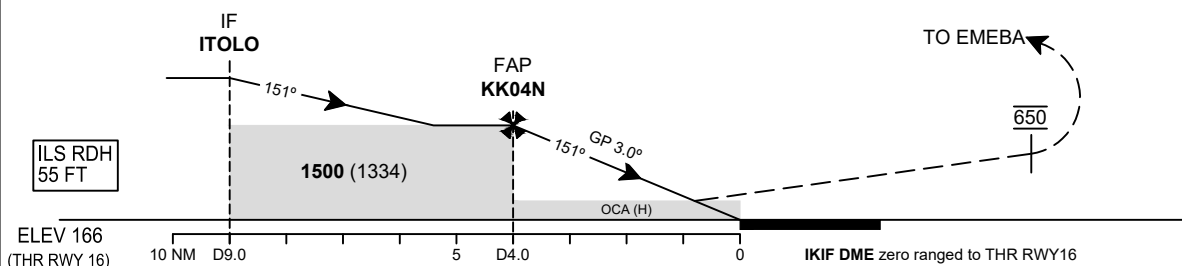
AD 2.OKKK-65

INSTRUMENT APPROACH CHART - ICAO	AD ELEV 204 FT VAR 4°E HEIGHTS RELATED TO THR RWY 16 ELEV 166 FT	APP 124.800 TWR 118.300 GMC 121.700 GMC-W 121.850 ATIS 126.225	KUWAIT / Kuwait Intl STATE OF KUWAIT ILS RWY 16 CAT I/II
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Trans Level FL 150
Trans Alt 13000

MISSED APPROACH:
Climb course 151°, at 650 ft turn right direct to EMEBA and hold at 3000ft.



OCA (H)		A	B	C	D	E	MAX IAS 250 knots at and below 10,000 ft.					
Straight-in Approach	CAT I	366 (200)										
	CAT II	266 (100)										
Circling (HAA)		780(580)	870 (670)	1190 (990)		1290(1090)						
WAYPOINTS				DIST from DME (IKIF)	NM	1.0	2.0	3.0	4.0			
ELOSA	N29 20 18.09	E047 48 11.92		ALT QNH	FT	550	870	1190	1500			
EMEMI	N29 26 21.76	E048 03 02.28		Ground speed	KTS	80	100	120	140	160	180	
ITOLO	N29 21 51.01	E047 52 10.35		Rate of descent	FT/MIN	425	531	637	743	849	955	
KK04N	N29 17 18.51	E047 52 10.35										
EMEBA	N29 02 13.00	E047 56 21.00										

KUWAIT International Airport

ILS RWY 16

POINT	LAT	LON	TRUE BEARING (°)	DME DISTANCE (NM)
ITOLO (IF)	292151.0067N	475210.3497E	154.99° (LOC 16)	8.97 (DME LOC16)
KK04N (FAP)	291718.5060N	475435.5797E	154.99° (LOC 16)	3.97 (DME LOC 16)
Precision approach-slope (Descent angle)				3.00° (5.24%)

WAYPOINTS COORDINATES	
WPT	COORD
ELOSA (IAF)	29°20'18,1"N 047°48'11,9"E
EMEBA	29°02'13.0"N 047°57'21.0"E
EMEMI (IAF)	29°26'21,8"N 048°03'02,3"E
ITOLO (IF)	29°21'51.0"N 047°52'10.3"E
KK04N (FAP)	29°17'18.5"N 047°54'35.6"E

PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ELOSA (IAF) RNAV1											
001	IF	ELOSA	-	-	-3.7	-	-	+3000	-220	-	RNAV1
002	TF	ITOLO	-	062 (066.0)	-3.7	3.8	-	+2400	-200	-	RNAV1
ILS RWY 16											
003	CA	-	-	151 (155.0)	-3.7	-	-	@650	-	-	RNAV1
004	DF	EMEBA	-	189 (193.2)	-3.7	-	-	@3000	-220	-	RNAV1
EMEMI (IAF) RNAV1											
001	IF	EMEMI	-	-	-3.7	-	-	+3000	-220	-	RNAV1
002	TF	ITOLO	-	241 (244.7)	-3.7	10.5	-	+2400	-200	-	RNAV1
ILS RWY 16											
003	CA	-	-	151 (155.0)	-3.7	-	-	@650	-	-	RNAV1
004	DF	EMEBA	-	189 (193.2)	-3.7	-	-	@3000	-220	-	RNAV1

Path Terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
RNAV 1 REQUIRED									
HM	EMEMI	284 (287.5)	-3.7	1 min	L	3000	-	-220	RNAV1
HM	EMEBA	154 (157.4)	-3.7	1 min	L	3000	3000	-220	RNAV1

AD 2.OKKK-61

KUWAIT / Kuwait Intl
STATE OF KUWAIT
ILS RWY 33L CAT I/II



Climb on course 331°, at 620 ft turn right direct to TABTO and hold at 3000ft.



OCA (H)			A	B	C	D	E	MAX IAS 250 knots at and below 10,000 fts.							
Straight-in Approach			CAT I		369 (200)										
			CAT II		269 (100)										
Circling (HAA)			780 (580)	870 (670)	1190 (990)		1290(1090)								
WAYPOINTS					DIST from DME (IKIA)		NM	1.0	2.0	3.0	3.3				
PEDEL	N28 58 11.00	E048 06 58.00	ALT QNH			FT	550	870	1190	1300					
TABTO	N29 06 19.00	E048 13 24.00				Ground speed	KTS	80	100	120	140	160	180		
KUTNO	N29 05 10.61	E048 02 36.24						Rate of descent	FT/MIN	425	531	637	743	849	955
KK03E	N29 09 43.25	E048 00 11.62													

KUWAIT International Airport

ILS RWY 33L

POINT	LAT	LON	TRUE BEARING (°)	DME DISTANCE (NM)
KUTNO (IF)	290510.6102N	480236.2357E	335.00° (LOC 33L)	8.35 (DME LOC33L)
KK03E (FAP)	290943.2532N	480011.6184E	335.00° (LOC 33L)	3.35 (DME LOC33L)
Precision approach-slope (Descent angle)				3.00° (5.24%)

WAYPOINTS COORDINATES	
WPT	COORD
KK03E (FAP)	29°09'43.3"N 048°00'11.6"E
KUTNO (IF)	29°05'10.6"N 048°02'36.2"E
PEDEL (IAF)	28°58'11.0"N 048°06'58.0"E
TABTO (IAF)	29°06'19.0"N 048°13'24.0"E

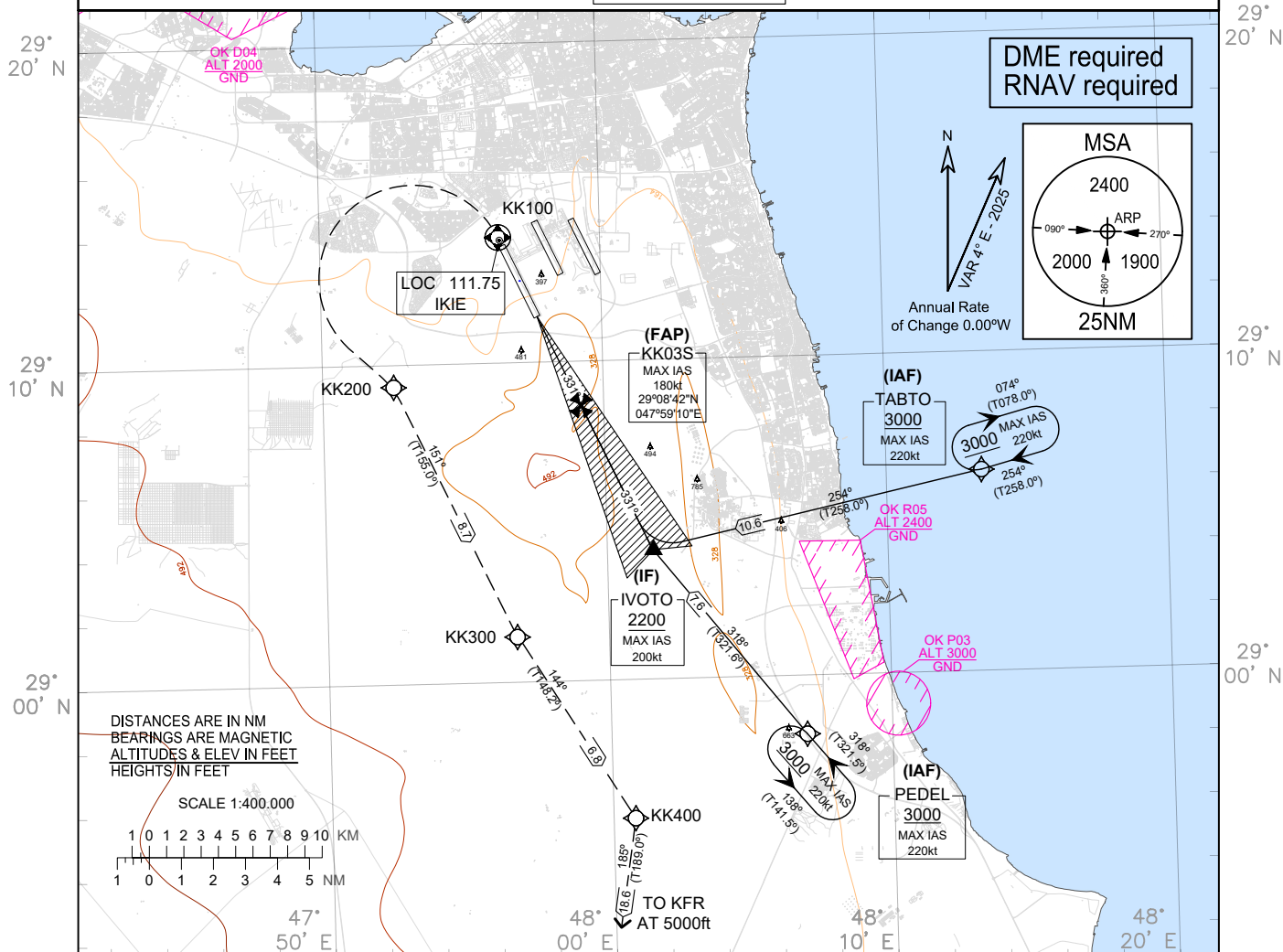
PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
PEDEL (IAF) RNAV1											
001	IF	PEDEL	-	-	-3.7	-	-	+3000	-220	-	RNAV1
002	TF	KUTNO	-	328 (331.3)	-3.7	8.0	-	+2300	-200	-	RNAV1
ILS RWY 33L											
003	CA	-	-	331 (335.0)	-3.7	-	-	@620	-	-	RNAV1
004	DF	TABTO	-	-	-3.7	-	R	@3000	-220	-	RNAV1
TABTO (IAF) RNAV1											
001	IF	TABTO	-	-	-3.7	-	-	+3000	-220	-	RNAV1
002	TF	KUTNO	-	259 (263.2)	-3.7	9.5	-	+2300	-200	-	RNAV1
ILS RWY 33L											
003	CA	-	-	331 (335.0)	-3.7	-	-	@620	-	-	RNAV1
004	DF	TABTO	-	-	-3.7	-	R	@3000	-220	-	RNAV1

Path Terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
RNAV 1 REQUIRED									
HM	PEDEL	318 (321.5)	-3.7	1 min	L	3000	-	-220	RNAV1
HM	TABTO	254 (258.0)	-3.7	1 min	R	3000	-	-220	RNAV1

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AD 2.OKKK-57

INSTRUMENT APPROACH CHART - ICAO	AD ELEV 204 FT VAR 4°E HEIGHTS RELATED TO THR RWY 34 ELEV 173 FT	APP 124.800 TWR 118.300 GMC 121.700 GND-W 121.850 ATIS 126.225	KUWAIT / Kuwait Intl STATE OF KUWAIT ILS RWY 34 CAT I/II
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Trans Level *FL 150*
Trans Alt *13000*

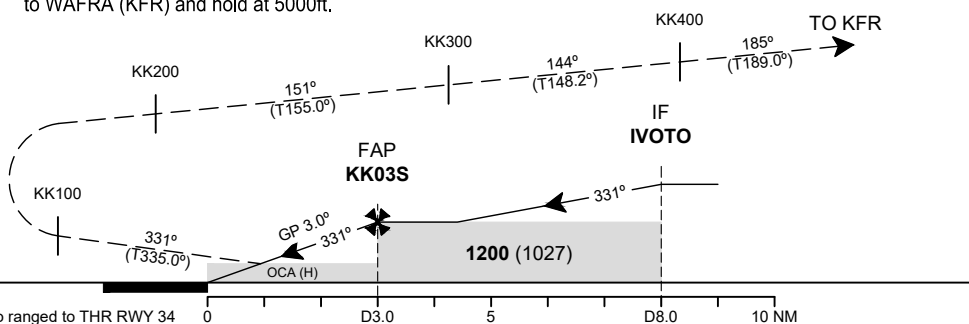
MISSED APPROACH:

Climb on course 331° to KK100, turn left direct to KK200, then KK300, KK400, continue to WAFRA (KFR) and hold at 5000ft.

ILS RDH
54 FT

ELEV 173
(THR RWY 34)

IKIE DME zero ranged to THR RWY 34



OCA (H)				A	B	C	D	E	MAX IAS 250 knots at and below 10,000 fts.					
Straight-in Approach	CAT I			373 (200)										
	CAT II			273 (100)										
Circling (HAA)				780 (580)	870 (670)	1190 (990)		1290(1090)						
WAYPOINTS						DIST from DME (IKIE)		NM	1.0	2.0	3.0	4.0		
PEDEL	N28 58 11.00	E048 06 58.00	KK200	N29 09 20.66	E047 52 32.17	ALT QNH		FT	550	870	1190	1200		
TABTO	N29 06 19.00	E048 13 24.00	KK300	N29 12 26.32	E047 56 43.90	Ground speed		KTS	80	100	120	140	160	180
IVOTO	N29 04 09.14	E048 01 34.86	KK400	N28 55 40.88	E048 00 46.99	Rate of descent		FT/MIN	425	531	637	743	849	955
KK03S	N29 08 41.79	E047 59 10.28	KFR	N28 37 15.00	E047 57 29.00									
KK100	N29 13 57.49	E047 56 22.57												

KUWAIT International Airport

ILS RWY 34

POINT	LAT	LON	TRUE BEARING (°)	DME DISTANCE (NM)
IVOTO (IF)	290409.1441N	480134.8636E	335.00° (LOC 34)	8.03 (DME LOC34)
KK03S (FAP)	290841.7912N	475910.2783E	335.00° (LOC 34)	3.03 (DME LOC34)
Precision approach-slope (Descent angle)				3.00° (5.24%)

WAYPOINTS COORDINATES	
WPT	COORD
IVOTO(IF)	29°04'09.1"N 048°01'34.9"E
KFR (DVOR/DME)	28°37'15.0"N 047°57'29.0"E
KK03S (FAP)	29°08'41.8"N 047°59'10.3"E
KK100	29°13'57.5"N 047°56'22.6"E
KK200	29°09'20.7"N 047°52'32.2"E
KK300	29°01'26.3"N 047°56'43.9"E
KK400	28°55'40.9"N 048°00'47.0"E
PEDEL (IAF)	28°58'11.0"N 048°06'58.0"E
TABTO (IAF)	29°06'19.0"N 048°13'24.0"E

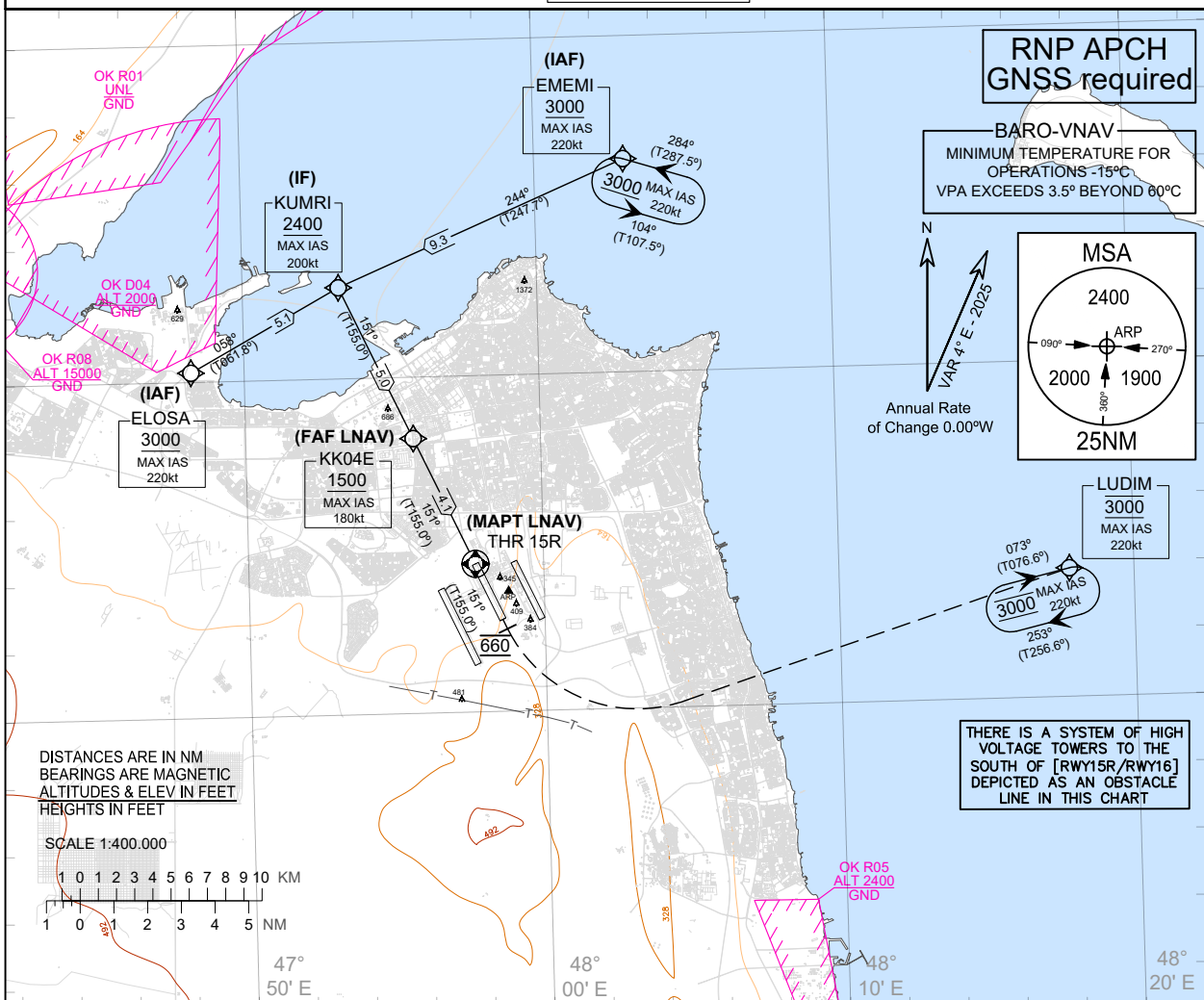
PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
PEDEL (IAF) RNAV1											
001	IF	PEDEL	-	-	-3.7	-	-	+3000	-220	-	RNAV1
002	TF	IVOTO	-	318 (321.6)	-3.7	7.6	-	+2200	-200	-	RNAV1
SEE CHART ILS RWY 34											
003	CF	KK100	Y	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
004	DF	KK200	-	-	-3.7	-	L	-	-	-	RNAV1
005	TF	KK300	-	151 (155.0).	-3.7	8.7	-	-	-	-	RNAV1
006	TF	KK400	-	144 (148.2)	-3,7	6,8	-	-	-	-	RNAV1
007	TF	KFR	-	185 (189.0)	-3,7	18,6	R	@5000	-	-	RNAV1
TABTO (IAF) RNAV1											
001	IF	TABTO	-	-	-3.7	-	-	+3000	-220	-	RNAV1
002	TF	IVOTO	-	254 (258.0)	-3.7	10.6	-	+2200	-200	-	RNAV1
SEE CHART ILS RWY 34											
003	CF	KK100	Y	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
004	DF	KK200	-	-	-3.7	-	L	-	-	-	RNAV1
005	TF	KK300	-	151 (155.0).	-3.7	8.7	-	-	-	-	RNAV1
006	TF	KK400	-	144 (148.2)	-3,7	6,8	-	-	-	-	RNAV1
007	TF	KFR	-	185 (189.0)	-3,7	18,6	R	@5000	-	-	RNAV1

Path Terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
RNAV 1 REQUIRED									
HM	PEDEL	318 (321.5)	-3.7	1 min	L	3000	-	-220	RNAV1
HM	TABTO	254 (258.0)	-3.7	1 min	R	3000	-	-220	RNAV1
HM	KFR	078 (081.4)	-3.7	1 min	R	5000	5000	-250	RNAV1

AIP KUWAIT

AD 2.OKKK-71

INSTRUMENT APPROACH CHART - ICAO	AD ELEV 204 FT VAR 4°E HEIGHTS RELATED TO THR RWY 15R ELEV 133 FT	APP 124.800 TWR 118.300 GMC 121.700 GMC-W 121.850 ATIS 126.225	KUWAIT / Kuwait Intl STATE OF KUWAIT RNP RWY 15R
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Trans Level

FL 150

Trans Alt

13000

MISSED APPROACH:

Climb on course 151°, at 660 ft turn left direct to LUDIM and hold at 3000ft.

IF KUMRI

FAF KK04E

SDF SDF15R
N29 16 47.62
E047 56 25.62

MAPT RWY15R

to LUDIM

151°

3.0°

151°

1500 (1367)

1000 (867)

OCA(H)

660

RDH 52 ft

ELEV 133
(THR RWY 15R)

NM

10 9 8 7 6 5 4 3 2 1 0

5.0

4.1

OCA (H)		A	B	C	D	E	MAX IAS 250 knots at and below 10,000 ft.
Straight-in Approach	LNAV	570 (437)					
	VNAV	430 (297)	440 (307)	450 (317)	510 (377)	530 (397)	
Circling (HAA)		780(580)	870 (670)	1190 (990)		1290(1090)	

WAYPOINTS				DIST from RWY15R	NM	1.0	2.0	3.0	4.0	4.1			
ELOSA	N29 20 18.09	E047 48 11.92	RWY15R	N29 14 25.88	E047 57 41.47	ALT QNH	FT	500	820	1130	1450	1500	
EMEMI	N29 26 21.76	E048 03 02.28	LUDIM	N29 13 50.77	E048 17 48.95	Ground speed	KTS	80	100	120	140	160	180
KUMRI	N29 22 41.14	E047 53 17.95				Rate of descent	FT/MIN	425	531	637	743	849	955
KK04E	N29 18 06.59	E047 55 43.07											

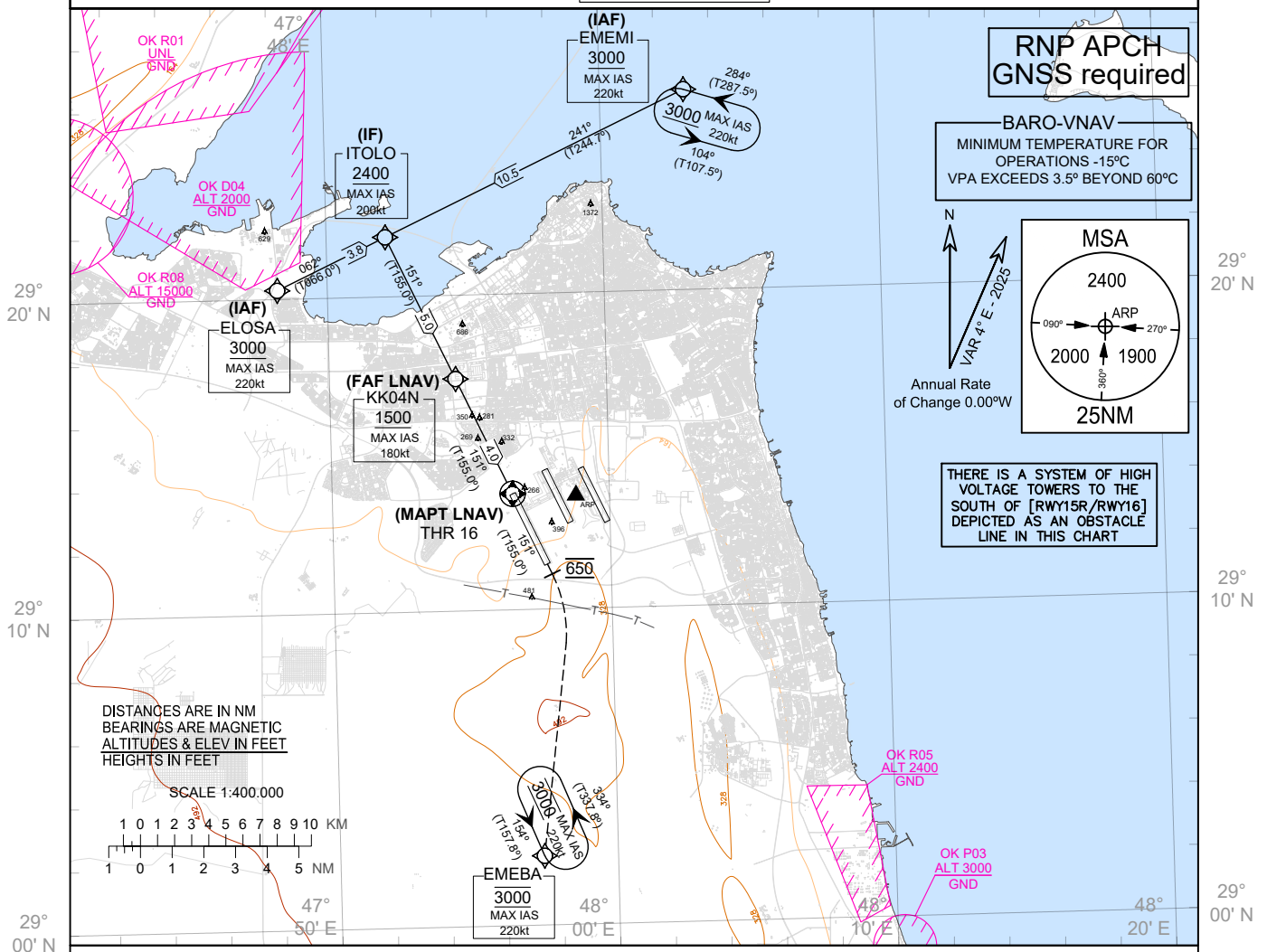
KUWAIT International Airport

RNP RWY 15R

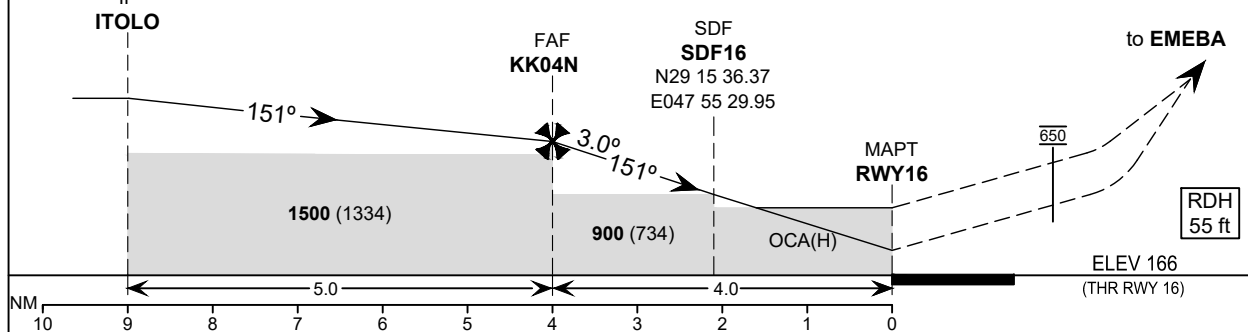
WAYPOINTS COORDINATES	
WPT	COORD
ELOSA (IAF)	29°20'18.1"N 047°48'11.9"E
EMEMI (IAF)	29°26'21.8"N 048°03'02.3"E
KK04E (FAF LNAV)	29°18'08.6"N 047°55'43.1"E
KUMRI (IF)	29°22'41.2"N 047°53'18.0"E
LUDIM	29°13'50.8"N 048°17'49.0"E
RWY15R (MAPt LNAV)	29°14'25.9"N 047°57'41.5"E
SDF15R	29°16'47.6"N 047°56'25.6"E

PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ELOSA (IAF) RNAV1											
001	IF	ELOSA	-	-	-3.7	-	-	+3000	-220	-	RNP APCH
002	TF	KUMRI	-	058 (061.8)	-3.7	5.1	R	+2400	-200	-	RNP APCH
003	TF	KK04E	-	151 (155.0)	-3.7	5.0	-	+1500	-180	-	RNP APCH
004	TF	RWY15R	Y	151 (155.0)	-3.7	4.1	-	+183	-	-3.0 / 52	RNP APCH
005	CA	-	-	151 (155.0)	-3.7	-	L	@660	-	-	RNP APCH
006	DF	LUDIM	-	-	-3.7	-	-	@3000	-220	-	RNP APCH
EMEMI (IAF) RNAV1											
001	IF	EMEMI	-	-	-3.7	-	-	+3000	-220	-	RNP APCH
002	TF	KUMRI	-	244 (247.7)	-3.7	9.3	L	+2400	-200	-	RNP APCH
003	TF	KK04E	-	151 (155.0)	-3.7	5.0	-	+1500	-180	-	RNP APCH
004	TF	RWY15R	Y	151 (155.0)	-3.7	4.1	-	+183	-	-3.0 / 52	RNP APCH
005	CA	-	-	151 (155.0)	-3.7	-	L	@660	-	-	RNP APCH
006	DF	LUDIM	-	-	-3.7	-	-	@3000	-220	-	RNP APCH

Path Terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
RNAV 1 REQUIRED									
HM	EMEMI	284 (287.5)	-3.7	1 min	L	3000	-	-220	RNAV1
HM	LUDIM	073 (076.6)	-3.7	1 min	R	3000	3000	-220	RNAV1

INSTRUMENT
APPROACH
CHART - ICAOAD ELEV 204 FT
VAR 4°E
HEIGHTS RELATED TO
THR RWY 16 ELEV 166 FTAPP 124.800
TWR 118.300
GMC 121.700
GMC-W 121.850
ATIS 126.225KUWAIT / Kuwait Intl
STATE OF KUWAIT
RNP RWY 16Trans Level FL 150
Trans Alt 13000**MISSED APPROACH:**

Climb course 151°, at 650 ft turn right direct to EMEBA and hold at 3000ft.



OCA (H)				A	B	C	D	E	MAX IAS 250 knots at and below 10,000 fts.					
Straight-in Approach	LNAV			580 (414)										
	VNAV			420 (254)	430 (264)	440 (274)	450 (284)	460 (294)						
Circling (HAA)				780(580)	870 (670)	1190 (990)		1290(1090)						
WAYPOINTS						DIST from RW16		NM	1.0	2.0	3.0	4.0		
ELOSA	N29 20 18.09	E047 48 11.92	RWY16	N29 13 41.90	E047 56 30.85	ALT QNH		FT	530	850	1170	1500		
EMEMI	N29 26 21.76	E048 03 02.28	EMEBA	N29 02 13.00	E047 57 20.99	Ground speed		KTS	80	100	120	140	160	180
ITOLLO	N29 21 51.01	E047 52 10.35				Rate of descent		FT/MIN	425	531	637	743	849	955
KK04N	N29 17 18.51	E047 54 35.58												

KUWAIT International Airport

RNP RWY 16

WAYPOINTS COORDINATES	
WPT	COORD
ELOSA (IAF)	29°20'18,1"N 047°48'11,9"E
EMEBA	29°02'13.0"N 047°57'21.0"E
EMEMI (IAF)	29°26'21,8"N 048°03'02,3"E
ITOLO (IF)	29°21'51.0"N 047°52'10.3"E
KK04N (FAF LNAV)	29°17'18.5"N 047°54'35.6"E
RWY16 (MAPt LNAV)	29°13'41,9"N 047°56'30,9"E
SDF16	29°15'36.4"N 047°55'30.0"E

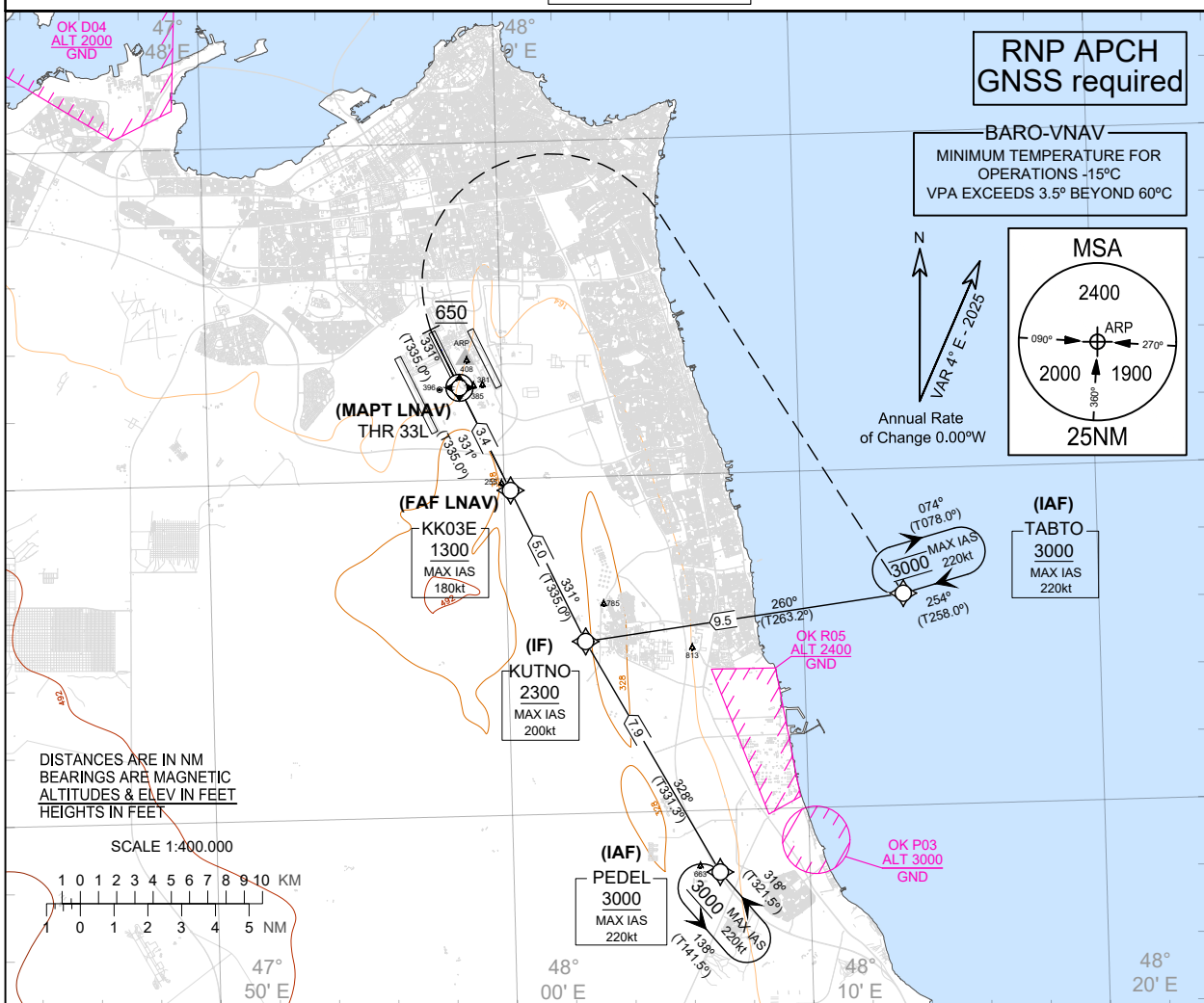
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Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ELOSA (IAF)											
001	IF	ELOSA	-	-	-3.7	-	-	+3000	-220	-	RNP APCH
002	TF	ITOLO	-	062 (066.0)	-3.7	3.8	R	+2400	-200	-	RNP APCH
003	TF	KK04N	-	151 (155.0)	-3.7	5.0	-	+1500	-180	-	RNP APCH
004	TF	RWY16	Y	151 (155.0)	-3.7	4.0	-	+216	-	-3.0 / 55	RNP APCH
005	CA	-	-	151 (155.0)	-3.7	-	-	@650	-	-	RNP APCH
006	DF	EMEBA	-	189 (193.2)	-3.7	-	R	@3000	-220	-	RNP APCH
EMEMI (IAF)											
001	IF	EMEMI	-	-	-3.7	-	-	+3000	-220	-	RNP APCH
002	TF	ITOLO	-	241 (244.7)	-3.7	10.5	L	+2400	-200	-	RNP APCH
003	TF	KK04N	-	151 (155.0)	-3.7	5.0	-	+1500	-180	-	RNP APCH
004	TF	RWY16	Y	151 (155.0)	-3.7	4.00	-	+216	-	-3.0 / 55	RNP APCH
005	CA	-	-	151 (155.0)	-3.7	-	-	@650	-	-	RNP APCH
006	DF	EMEBA	-	189 (193.2)	-3.7	-	R	@3000	-220	-	RNP APCH

Path Terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
RNAV 1 REQUIRED									
HM	EMEMI	284 (287.5)	-3.7	1 min	L	3000	-	-220	RNAV1
HM	EMEBA	154 (157.4)	-3.7	1 min	L	3000	3000	-220	RNAV1

**AIP
KUWAIT**

AD 2.OKKK-63

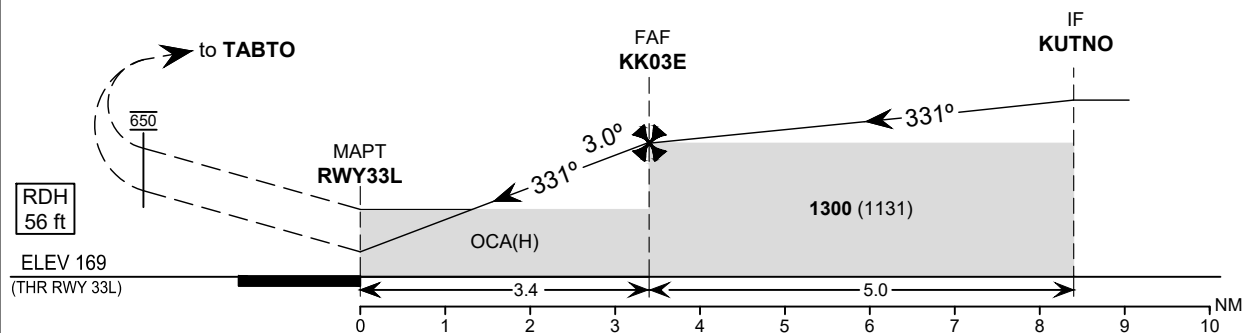
INSTRUMENT APPROACH CHART - ICAO	AD ELEV 204 FT VAR 4°E HEIGHTS RELATED TO THR RWY 33L ELEV 169 FT	APP 124.800 TWR 118.300 GMC 121.700 GMC-W 121.850 ATIS 126.225	KUWAIT / Kuwait Intl STATE OF KUWAIT RNP RWY 33L
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Trans Level FL 150
Trans Alt 13000

MISSED APPROACH:

Climb on course 331°, at 650 ft turn right direct to TABTO and hold at 3000ft.



OCA (H)		A	B	C	D	E	MAX IAS 250 knots at and below 10,000 fts.					
Straight-in Approach	LNAV	640 (471)										
	VNAV	530 (361)	540 (371)	560 (391)	570 (401)	590 (421)						
Circling (HAA)		780(580)	870 (670)	1190 (990)		1290(1090)						
WAYPOINTS				DIST from RWY33L		NM	1.0	2.0	3.0	3.4		
PEDEL	N28 58 11.00	E048 06 58.00	RWY33L	N29 12 45.74	E047 58 34.69	ALT QNH	FT	540	850	1170	1300	
TABTO	N29 06 19.00	E048 13 24.00				Ground speed	KTS	80	100	120	140	160
KUTNO	N29 05 10.61	E048 02 36.24				Rate of descent	FT/MIN	425	531	637	743	849
KK03E	N29 09 43.25	E048 00 11.62										955

KUWAIT International Airport

RNP RWY 33L

WAYPOINTS COORDINATES	
WPT	COORD
KK03E (FAF LNAV)	29°09'43.2"N 048°00'11.6"E
KUTNO (IF)	29°05'10.6"N 048°02'36.2"E
PEDEL (IAF)	28°58'11.0"N 048°06'58.0"E
RWY33L (MAPt LNAV)	29°12'45,7"N 047°58'34,7"E
TABTO (IAF)	29°06'19.0"N 048°13'24.0"E

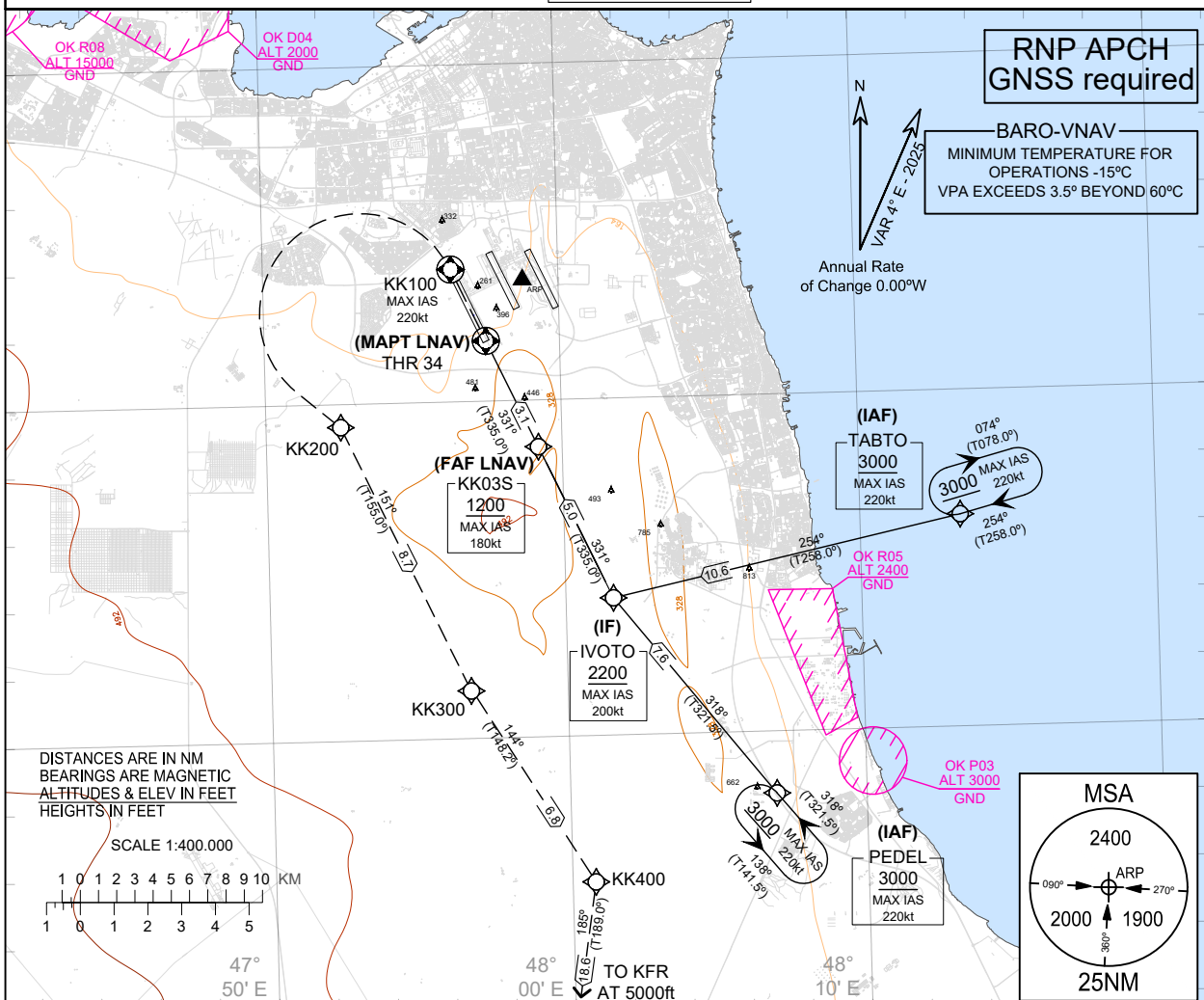
PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
PEDEL (IAF) RNAV1											
001	IF	PEDEL	-	-	-3.7	-	-	+3000	-220	-	RNP APCH
002	TF	KUTNO	-	328 (331.3)	-3.7	7.9	R	+2300	-200	-	RNP APCH
003	TF	KK03E	-	331 (335.0)	-3.7	5.0	-	+1300	-180	-	RNP APCH
004	TF	RWY33L	Y	331 (335.0)	-3.7	3.4	-	+218	-	-3.0 / 56	RNP APCH
005	CA	-	-	331 (335.0)	-3.7	-	R	@650	-	-	RNP APCH
006	DF	TABTO	-	-	-3.7	-	-	@3000	-220	-	RNP APCH
TABTO (IAF) RNAV1											
001	IF	TABTO	-	-	-3.7	-	-	+3000	-220	-	RNP APCH
002	TF	KUTNO	-	260 (263.2)	-3.7	9.5	R	+2300	-200	-	RNP APCH
003	TF	KK03E	-	331 (335.0)	-3.7	5.0	-	+1300	-180	-	RNP APCH
004	TF	RWY33L	Y	331 (335.0)	-3.7	3.4	-	+218	-	-3.0 / 56	RNP APCH
005	CA	-	-	331 (335.0)	-3.7	-	R	@650	-	-	RNP APCH
006	DF	TABTO	-	-	-3.7	-	-	@3000	-220	-	RNP APCH

Path Terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
RNAV 1 REQUIRED									
HM	PEDEL	318 (321.5)	-3.7	1 min	L	3000	-	-220	RNAV1
HM	TABTO	254 (258.0)	-3.7	1 min	R	3000	-	-220	RNAV1

**AIP
KUWAIT**

AD 2.OKKK-59

INSTRUMENT APPROACH CHART - ICAO	AD ELEV 204 FT VAR 4°E HEIGHTS RELATED TO THR RWY 34 ELEV 173 FT	APP 124.800 TWR 118.300 GMC 121.700 GND-W 121.850 ATIS 126.225	KUWAIT / Kuwait Intl STATE OF KUWAIT RNP RWY 34
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Trans Level

FL 150

Trans Alt

13000

MISSED APPROACH:

Climb on course 331° to KK100, turn left direct to KK200, then KK300, KK400, continue to WAFRA (KFR) and hold at 5000ft.

RDH

54 ft

ELEV 173

(THR RWY 34)

OCA (H)		A	B	C	D	E	MAX IAS 250 knots at and below 10,000 fts.							
Straight-in Approach	LNAV	700 (527)												
	VNAV	580 (407)	590 (417)	650 (477)	660 (487)	660 (487)								
Circling (HAA)		780(580)	870 (670)	1190 (990)		1290(1090)								
WAYPOINTS							DIST from RW34	NM	1.0	2.0	3.0	3.1		
PEDEL	N28 58 11.00	E048 06 58.00	KK100	N29 13 57.48	E047 56 22.57		ALT QNH	FT	540	860	1180	1200		
TABTO	N29 06 19.00	E048 13 24.00	KK200	N29 09 20.66	E047 52 32.17		Ground speed	KTS	80	100	120	140	160	180
IVOTO	N29 04 09.14	E048 01 34.86	KK300	N29 01 26.32	E047 56 43.90		Rate of descent	FT/MIN	425	531	637	743	849	955
KK03S	N29 08 41.79	E047 59 10.28	KK400	N28 55 40.88	E048 00 46.99									
RWY34	N29 11 27.08	E047 57 42.51	KFR	N28 37 15.00	E047 57 29.00									

KUWAIT International Airport

RNP RWY 34

WAYPOINTS COORDINATES	
WPT	COORD
IVOTO (IF)	29°04'09.1"N 048°01'34.9"E
KFR (DVOR/DME)	28°37'15.0"N 047°57'29.0"E
KK03S (FAF LNAV)	29°08'41.8"N 047°59'10.3"E
KK100	29°13'57.5"N 047°56'22.6"E
KK200	29°09'20.7"N 047°52'32.2"E
KK300	29°01'26.3"N 047°56'43.9"E
KK400	28°55'40.9"N 048°00'47.0"E
PEDEL (IAF)	28°58'11.0"N 048°06'58.0"E
RWY34 (MAPt LNAV)	29°11'27.1"N 047°57'42.5"E
TABTO (IAF)	29°06'19.0"N 048°13'24.0"E

PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
PEDEL (IAF) RNAV1											
001	IF	PEDEL	-	-	-3.7	-	-	+3000	-220	-	RNP APCH
002	TF	IVOTO	-	318 (321.6)	-3.7	7.6	R	+2200	-200	-	RNP APCH
003	TF	KK03S	-	331 (335.0)	-3.7	5.0	-	+1200	-180	-	RNP APCH
004	TF	RWY34	Y	331 (335.0)	-3.7	3.1	-	+222	-	-3.0 / 54	RNP APCH
005	CF	KK100	Y	331 (335.0)	-3.7	-	L	-	-220	-	RNP APCH
006	DF	KK200	-	-	-3.7	-	-	-	-	-	RNP APCH
007	TF	KK300	-	151 (155.0)	-3.7	8.7	-	-	-	-	RNP APCH
008	TF	KK400	-	144 (148.2)	-3.7	6,8	-	-	-	-	RNP APCH
009	TF	KFR	-	185 (189.0)	-3.7	18,6	R	@5000	-	-	RNP APCH
TABTO (IAF) RNAV1											
001	IF	TABTO	-	-	-3.7	-	-	+3000	-220	-	RNP APCH
002	TF	IVOTO	-	254 (258.0)	-3.7	10.6	R	+2200	-200	-	RNP APCH
003	TF	KK03S	-	331 (335.0)	-3.7	5.0	-	+1200	-180	-	RNP APCH
004	TF	RWY34	Y	331 (335.0)	-3.7	3.1	-	+222	-	-3.0 / 54	RNP APCH
005	CF	KK100	Y	331 (335.0)	-3.7	-	-	-	-220	-	RNP APCH
006	DF	KK200	-	-	-3.7	-	L	-	-	-	RNP APCH
007	TF	KK300	-	151 (155.0)	-3.7	8.7	-	-	-	-	RNP APCH
008	TF	KK400	-	144 (148.2)	-3.7	6,8	-	-	-	-	RNP APCH
009	TF	KFR	-	185 (189.0)	-3.7	18,6	R	@5000	-	-	RNP APCH

Path Terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
RNAV 1 REQUIRED									
HM	PEDEL	318 (321.5)	-3.7	1 min	L	3000	-	-220	RNAV1
HM	TABTO	254 (258.0)	-3.7	1 min	R	3000	-	-220	RNAV1
HM	KFR	078 (081.4)	-3,7	1 min	R	5000	5000	-250	RNAV1

AD 2.0KKK-41

APP	124.800
TWR	118.300
GMC	121.700
GMC-W	121.850
DEL	126.775
ATIS	126.225

KUWAIT / Kuwait Intl
STATE OF KUWAIT
RNAV1 (GNSS) SID RWY 15R

DIRECTORATE GENERAL OF CIVIL AVIATION, KUWAIT

KUWAIT International Airport

WAYPOINTS COORDINATES	
WPT	COORD
ALVAX	29°20'30.0"N 048°24'22.0"E
ASVIR	28°32'20.0"N 048°22'20.0"E
BOXIK	28°48'14.0"N 048°47'34.0"E
DEKOB	28°31'35.0"N 047°51'06.0"E
KATOD	28°31'41.0"N 047°55'54.0"E
KK003	28°41'47.9"N 047°59'02.0"E
KK004	28°37'49.8"N 047°51'50.6"E
KK011	29°05'12.7"N 048°02'35.1"E
KK012	29°02'55.2"N 048°02'14.1"E
KK015	28°40'49.6"N 048°16'37.6"E
KK016	29°09'03.5"N 048°06'04.3"E
KK017	29°09'04.3"N 048°20'23.2"E
KK034	29°16'35.7"N 048°19'28.6"E
KK035	29°14'35.6"N 048°22'18.4"E
KK036	28°48'59.6"N 048°00'07.2"E
KK039	28°56'02.9"N 048°06'43.4"E
NIDAP	28°38'57.0"N 047°36'56.0"E
RALKA	29°26'11.0"N 048°18'19.0"E
SESRU	29°09'00.0"N 048°54'50.0"E
TASMI	30°01'20.0"N 047°55'05.0"E

PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ALVAX5E											
001	CA	-	-	151 (155.0)	-3.7	-	-	+1000	-	-	RNAV1
002	DF	KK016	-	-	-3.7	-	-	-6000	-	-	RNAV1
003	TF	KK017	-	086 (089.9)	-3.7	12.5	-	-8000	-	-	RNAV1
004	TF	KK035	-	013 (017.0)	-3.7	5.8	-	+9000	-	-	RNAV1
005	TF	ALVAX	-	013 (017.0)	-3.7	6.2	-	-	-	-	RNAV1
ASVIR5E											
Minimum climb gradient 6.2% up to 4000ft, and then, climb gradient of 5.2% up to 12000ft or more, due to operational reasons.											
001	CF	KK011	-	151 (155.0)	-3.7	8.2	-	-	-	-	RNAV1
002	TF	KK012	Y	184 (187.6)	-3.7	2.3	-	+4000 -6000	-	-	RNAV1
003	TF	KK039	-	146 (150.1)	-3.7	7.9	-	-10000	-	-	RNAV1
004	TF	KK015	-	146 (150.1)	-3.7	17.5	-	+12000	-	-	RNAV1
005	TF	ASVIR	-	146 (149.3)	-3.7	9.9	-	-FL160	-	-	RNAV1
BOXIK5E											
001	CA	-	-	151 (155.0)	-3.7	-	-	+1000	-	-	RNAV1
002	DF	KK016	-	-	-3.7	-	-	-6000	-	-	RNAV1
003	TF	KK017	-	086 (089.9)	-3.7	12.5	-	-8000	-	-	RNAV1
004	TF	BOXIK	-	127 (131.0)	-3.7	31.7	-	-	-	-	RNAV1
DEKOB1L											
Minimum climb gradient 6.2% up to 4000 ft, due to operational reasons.											
001	CF	KK011	-	151 (155.0)	-3.7	8.2	-	-	-	-	RNAV1
002	TF	KK012	Y	184 (187.6)	-3.7	2.3	-	+4000 -6000	-	-	RNAV1
003	TF	KK036	-	184 (187.6)	-3.7	14.0	-	-10000	-	-	RNAV1
004	TF	KK003	-	184 (187.6)	-3.7	7.2	-	-12000	-	-	RNAV1
005	TF	DEKOB	-	211 (214.5)	-3.7	12.4	-	-FL200	-	-	RNAV1
KATOD1L											
Minimum climb gradient 6.2% up to 4000 ft, due to operational reasons.											
001	CF	KK011	-	151 (155.0)	-3.7	8.2	-	-	-	-	RNAV1
002	TF	KK012	Y	184 (187.6)	-3.7	2.3	-	+4000 -6000	-	-	RNAV1
003	TF	KK036	-	184 (187.6)	-3.7	14.0	-	-10000	-	-	RNAV1
004	TF	KK003	-	184 (187.6)	-3.7	7.2	-	-12000	-	-	RNAV1
005	TF	KATOD	-	192 (195.3)	-3.7	10.5	-	-FL200	-	-	RNAV1
NIDAP1L											
Minimum climb gradient 6.2% up to 4000 ft, due to operational reasons.											
001	CF	KK011	-	151 (155.0)	-3.7	8.2	-	-	-	-	RNAV1
002	TF	KK012	Y	184 (187.6)	-3.7	2.3	-	+4000 -6000	-	-	RNAV1
003	TF	KK036	-	184 (187.6)	-3.7	14.0	-	-10000	-	-	RNAV1
004	TF	KK003	-	184 (187.6)	-3.7	7.2	-	-12000	-	-	RNAV1
005	TF	KK004	Y	234 (238.0)	-3.7	7.5	-	-	-	-	RNAV1
006	TF	NIDAP	-	271 (274.9)	-3.7	13.2	-	-FL200	-	-	RNAV1
SESRU5E											
001	CA	-	-	151 (155.0)	-3.7	-	-	+1000	-	-	RNAV1
002	DF	KK016	-	-	-3.7	-	-	-6000	-	-	RNAV1
003	TF	KK017	-	086 (089.9)	-3.7	12.5	-	-8000	-	-	RNAV1
004	TF	SESRU	-	086 (090.0)	-3.7	30.2	-	+FL170	-	-	RNAV1
TASMI5E											
001	CA	-	-	151 (155.0)	-3.7	-	-	+1000	-	-	RNAV1
002	DF	KK016	-	-	-3.7	-	-	-6000	-	-	RNAV1
003	TF	KK017	-	086 (089.9)	-3.7	12.5	-	-8000	-	-	RNAV1
004	TF	KK034	-	350 (354.0)	-3.7	7.5	-	+9000	-	-	RNAV1
005	TF	RAKA	-	350 (354.0)	-3.7	9.6	-	+11000	-	-	RNAV1
006	TF	TASMI	-	326 (330.1)	-3.7	40.5	-	-	-	-	RNAV1

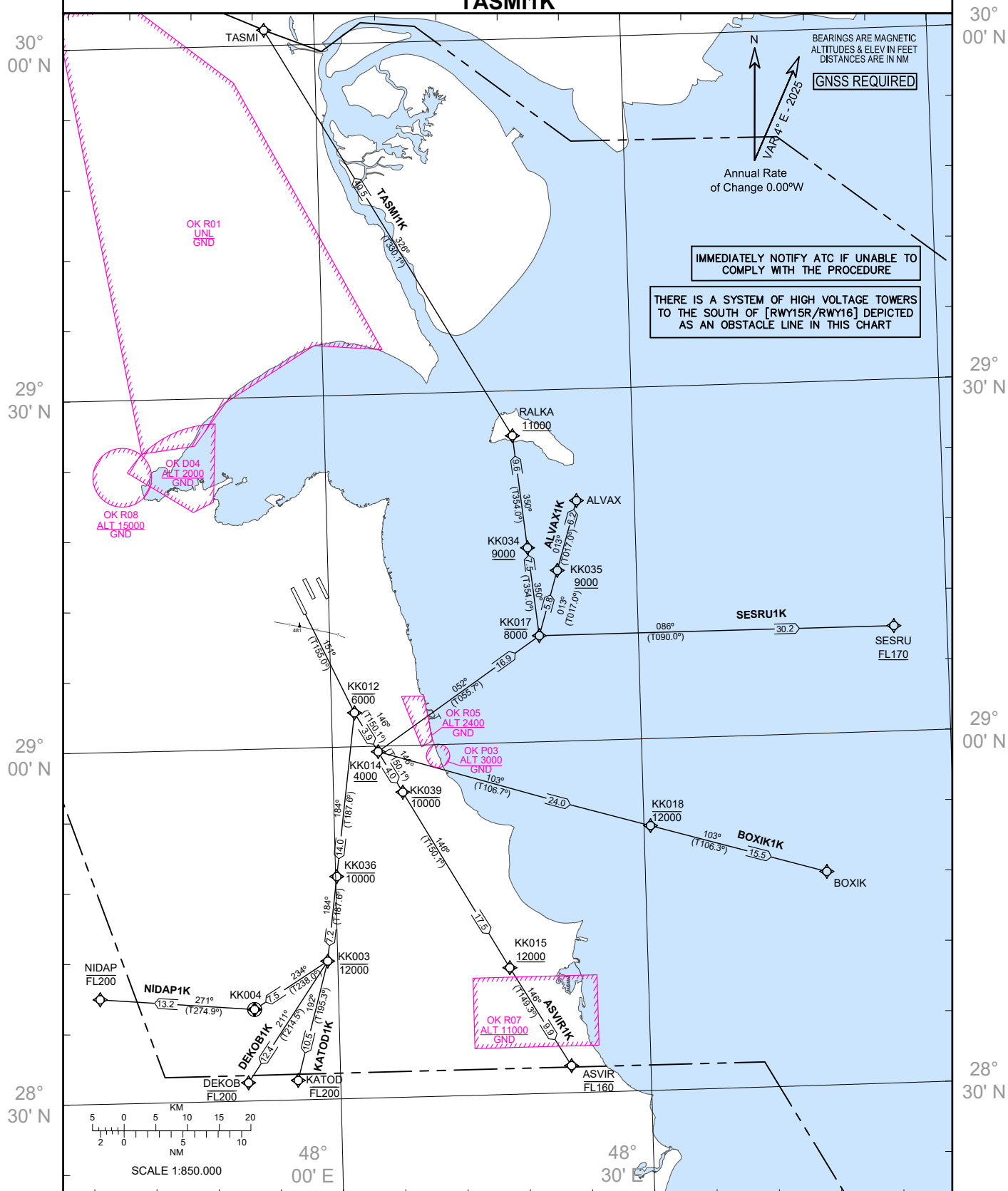
STANDARD
DEPARTURE CHART
INSTRUMENT (SID) -
ICAO

AD ELEV 204 FT
VAR 4°E
Trans Level FL 150
Trans Alt 13000

APP	124.800
TWR	118.300
GMC	121.700
GMC-W	121.850
DEL	126.775
ATIS	126.225

KUWAIT / Kuwait Intl
STATE OF KUWAIT
RNAV1 (GNSS) SID RWY 16

ALVAX1K, ASVIR1K, BOXIK1K, DEKOB1K, KATOD1K, NIDAP1K, SESRU1K, TASM1K



KUWAIT International Airport

WAYPOINTS COORDINATES	
WPT	COORD
ALVAX	29°20'30.0"N 048°24'22.0"E
ASVIR	28°32'20.0"N 048°22'20.0"E
BOXIK	28°48'14.0"N 048°47'34.0"E
DEKOB	28°31'35.0"N 047°51'06.0"E
KATOD	28°31'41.0"N 047°55'54.0"E
KK003	28°41'47.9"N 047°59'02.0"E
KK004	28°37'49.8"N 047°51'50.6"E
KK012	29°02'55.2"N 048°02'14.1"E
KK014	28°59'33.2"N 048°04'26.1"E
KK015	28°40'49.6"N 048°16'37.6"E
KK017	29°09'04.3"N 048°20'23.2"E
KK018	28°52'36.2"N 048°30'37.9"E
KK034	29°16'35.7"N 048°19'28.6"E
KK035	29°14'35.6"N 048°22'18.4"E
KK036	28°48'59.6"N 048°00'07.2"E
KK039	28°56'02.9"N 048°06'43.4"E
NIDAP	28°38'57.0"N 047°36'56.0"E
RALKA	29°26'11.0"N 048°18'19.0"E
SESRU	29°09'00.0"N 048°54'50.0"E
TASMI	30°01'20.0"N 047°55'05.0"E

PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ALVAX1K											
Minimum climb gradient 4.9% up to 4000 ft, due to operational reasons.											
001	CF	KK012	-	151 (155.0)	-3.7	-	-	-6000	-	-	RNAV1
002	TF	KK014	-	146 (150.1)	-3.7	3.9	-	+4000	-	-	RNAV1
003	TF	KK017	-	052 (055.7)	-3.7	16.9	-	-8000	-	-	RNAV1
004	TF	KK035	-	013 (017.0)	-3.7	5.8	-	+9000	-	-	RNAV1
005	TF	ALVAX	-	013 (017.0)	-3.7	6.2	-	-	-	-	RNAV1
ASVIR1K											
Minimum climb gradient 5.7% up to 12000ft, due to operational reasons.											
001	CF	KK012	-	151 (155.0)	-3.7	-	-	-6000	-	-	RNAV1
002	TF	KK014	-	146 (150.1)	-3.7	3.9	-	+4000	-	-	RNAV1
003	TF	KK039	-	146 (150.1)	-3.7	4.0	-	-10000	-	-	RNAV1
004	TF	KK015	-	146 (150.1)	-3.7	17.5	-	+12000	-	-	RNAV1
005	TF	ASVIR	-	146 (149.3)	-3.7	9.9	-	-FL160	-	-	RNAV1
BOXIK1K											
Minimum climb gradient 4.9% up to 4000 ft, due to operational reasons.											
001	CF	KK012	-	151 (155.0)	-3.7	-	-	-6000	-	-	RNAV1
002	TF	KK014	-	146 (150.1)	-3.7	3.9	-	+4000	-	-	RNAV1
003	TF	KK018	-	103 (106.7)	-3.7	24.0	-	-12000	-	-	RNAV1
004	TF	BOXIK	-	103 (106.3)	-3.7	15.5	-	-	-	-	RNAV1
DEKOB1K											
Minimum climb gradient 3.5% up to 1000ft.											
001	CF	KK012	-	151 (155.0)	-3.7	-	-	-6000	-	-	RNAV1
002	TF	KK036	-	184 (187.6)	-3.7	14.0	-	-10000	-	-	RNAV1
003	TF	KK003	-	184 (187.6)	-3.7	7.2	-	-12000	-	-	RNAV1
005	TF	DEKOB	-	211 (214.5)	-3.7	12.4	-	-FL200	-	-	RNAV1
KATOD1K											
Minimum climb gradient 3.5% up to 1000ft.											
001	CF	KK012	-	151 (155.0)	-3.7	-	-	-6000	-	-	RNAV1
002	TF	KK036	-	184 (187.6)	-3.7	14.0	-	-10000	-	-	RNAV1
003	TF	KK003	-	184 (187.6)	-3.7	7.2	-	-12000	-	-	RNAV1
005	TF	KATOD	-	192 (195.3)	-3.7	10.5	-	-FL200	-	-	RNAV1
NIDAP1K											
Minimum climb gradient 3.5% up to 1000ft.											
001	CF	KK012	-	151 (155.0)	-3.7	-	-	-6000	-	-	RNAV1
002	TF	KK036	-	184 (187.6)	-3.7	14.0	-	-10000	-	-	RNAV1
003	TF	KK003	-	184 (187.6)	-3.7	7.2	-	-12000	-	-	RNAV1
004	TF	KK004	Y	234 (238.0)	-3.7	7.5	-	-	-	-	RNAV1
005	TF	NIDAP	-	271 (274.9)	-3.7	13.2	-	-FL200	-	-	RNAV1
SESRU1K											
Minimum climb gradient 4.9% up to 4000 ft, due to operational reasons.											
001	CF	KK012	-	151 (155.0)	-3.7	-	-	-6000	-	-	RNAV1
002	TF	KK014	-	146 (150.1)	-3.7	3.9	-	+4000	-	-	RNAV1
003	TF	KK017	-	052 (055.7)	-3.7	16.9	-	-8000	-	-	RNAV1
004	TF	SESRU	-	086 (090.0)	-3.7	30.2	-	+FL170	-	-	RNAV1
TASMI1K											
Minimum climb gradient 4.9% up to 4000 ft, due to operational reasons.											
001	CF	KK012	-	151 (155.0)	-3.7	-	-	-6000	-	-	RNAV1
002	TF	KK014	-	146 (150.1)	-3.7	3.9	-	+4000	-	-	RNAV1
003	TF	KK017	-	052 (055.7)	-3.7	16.9	-	-8000	-	-	RNAV1
004	TF	KK034	-	350 (354.0)	-3.7	7.5	-	+9000	-	-	RNAV1
005	TF	RALKA	-	350 (354.0)	-3.7	9.6	-	+11000	-	-	RNAV1
006	TF	TASMI	-	326 (330.1)	-3.7	40.5	-	-	-	-	RNAV1

STANDARD	AD ELEV	204 FT	APP	124.800	KUWAIT / Kuwait Intl STATE OF KUWAIT RNAV1 (GNSS) SID RWY 33L
DEPARTURE CHART	VAR	4°E	TWR	118.300	
INSTRUMENT (SID) -	Trans Level	FL 150	GMC	121.700	
ICAO	Trans Alt	13000	GMC-W	121.850	
			DEL	126.775	
			ATIS	126.225	

BEARINGS ARE MAGNETIC
ALTITUDES & ELEV IN FEET
DISTANCES ARE IN NM

GNSS REQUIRED

Annual Rate
of Change 0.00°W

IMMEDIATELY NOTIFY ATC IF UNABLE TO
COMPLY WITH THE PROCEDURE

OK R01
UNL
GND

OK D04
ALT 2000
GND

OK R08
ALT 15000
GND

OK R05
ALT 2400
GND

OK P03
ALT 3000
GND

OK R07
ALT 11000
GND

Fly-Over only applicable for NIDAP1J
Altitude restriction only applicable
for DEKOB1J and KATOD1J

Scale: 1:850,000

48° 00' E

48° 30' E

KUWAIT International Airport

WAYPOINTS COORDINATES	
WPT	COORD
ALVAX	29°20'30.0"N 048°24'22.0"E
ASVIR	28°32'20.0"N 048°22'20.0"E
BOXIK	28°48'14.0"N 048°47'34.0"E
DEKOB	28°31'35.0"N 047°51'06.0"E
KATOD	28°31'41.0"N 047°55'54.0"E
KK001	29°12'24.3"N 047°51'00.6"E
KK002	28°56'08.4"N 047°58'34.4"E
KK003	28°41'47.9"N 047°59'02.0"E
KK004	28°37'49.8"N 047°51'50.6"E
KK005	28°40'49.5"N 048°13'53.2"E
KK006	29°19'38.1"N 048°11'45.6"E
KK007	29°10'41.6"N 048°21'59.4"E
KK008	29°23'07.2"N 048°13'44.4"E
KK009	29°23'44.1"N 048°13'17.1"E
KK019	29°31'31.8"N 048°14'48.1"E
KK031	29°17'29.7"N 047°46'54.1"E
KK032	28°48'16.3"N 048°06'27.1"E
KK037	29°22'05.1"N 048°18'56.6"E
NIDAP	28°38'57.0"N 047°36'56.0"E
SESRU	29°09'00.0"N 048°54'50.0"E
SOBAB	29°21'42.0"N 047°53'49.0"E
TASMI	30°01'20.0"N 047°55'05.0"E
TULGO	29°26'27.0"N 048°03'56.0"E

PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ALVAX5F RNAV1											
Minimum climb gradient 5.6% up to 9000 ft, due to operational reasons.											
001	CF	SOBAB	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	TULGO	-	058 (61.8)	-3.7	10	-	-	-	-	RNAV1
003	TF	KK009	-	105 (108.3)	-3.7	8.6	-	+9000	-	-	RNAV1
004	TF	KK037	-	105 (108.4)	-3.7	5.2	-	+10000	-	-	RNAV1
005	TF	ALVAX	-	105 (108.4)	-3.7	5	-	-	-	-	RNAV1
ASVIR5F RNAV1											
Minimum climb gradient 4.8% up to 11000ft, and then, climb gradient of 4.1% up to FL160, due to operational reasons.											
001	CF	SOBAB	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	KK031	-	232 (235.3)	-3.7	7.4	-	-	-	-	RNAV1
003	TF	KK001	-	141 (144.7)	-3.7	6.2	-	+6000	-	-	RNAV1
004	TF	KK002	-	154 (157.7)	-3.7	17.5	-	+11000	-	-	RNAV1
005	TF	KK032	-	135 (138.6)	-3.7	10.5	-	+13000	-	-	RNAV1
006	TF	KK005	-	135 (138.6)	-3.7	9.9	-	+FL160	-	-	RNAV1
007	TF	ASVIR	-	135 (138.6)	-3.7	11.3	-	-	-	-	RNAV1
BOXIK5F RNAV1											
Minimum climb gradient 5.4% up to 9000 ft, due to operational reasons.											
001	CF	SOBAB	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	TULGO	-	058 (61.8)	-3.7	10	-	-	-	-	RNAV1
003	TF	KK006	-	131 (134.8)	-3.7	9.6	-	+9000	-	-	RNAV1
004	TF	KK007	-	131 (134.9)	-3.7	12.6	-	+11000	-	-	RNAV1
005	TF	BOXIK	-	131 (134.9)	-3.7	31.7	-	-	-	-	RNAV1
DEKOB1J RNAV1											
Minimum climb gradient 5.5% up to FL190 ft, due to operational reasons.											
001	CF	SOBAB	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	KK031	-	232 (235.3)	-3.7	7.4	-	-	-	-	RNAV1
003	TF	KK001	-	141 (144.7)	-3.7	6.2	-	+6000	-	-	RNAV1
004	TF	KK002	-	154 (157.7)	-3.7	17.5	-	+11000	-	-	RNAV1
005	TF	KK003	-	175 (178.4)	-3.7	14.3	-	+FL180	-	-	RNAV1
006	TF	DEKOB	-	211 (214.5)	-3.7	12.4	-	-	-	-	RNAV1
KATOD1J RNAV1											
Minimum climb gradient 5.5% up to FL190 ft, due to operational reasons.											
001	CF	SOBAB	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	KK031	-	232 (235.3)	-3.7	7.4	-	-	-	-	RNAV1
003	TF	KK001	-	141 (144.7)	-3.7	6.2	-	+6000	-	-	RNAV1
004	TF	KK002	-	154 (157.7)	-3.7	17.5	-	+11000	-	-	RNAV1
005	TF	KK003	-	175 (178.4)	-3.7	14.3	-	+FL180	-	-	RNAV1
006	TF	KATOD	-	192(195.3)	-3.7	10.5	-	-	-	-	RNAV1
NIDAP1J RNAV1											
Minimum climb gradient 5.2% up to FL190 ft, due to operational reasons.											
001	CF	SOBAB	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	KK031	-	232 (235.3)	-3.7	7.4	-	-	-	-	RNAV1
003	TF	KK001	-	141 (144.7)	-3.7	6.2	-	+6000	-	-	RNAV1
004	TF	KK002	-	154 (157.7)	-3.7	17.5	-	+11000	-	-	RNAV1
005	CF	KK003	Y	175 (178.4)	-3.7	14.3	-	-	-	-	RNAV1
006	DF	KK004	Y	-	-3.7	-	-	+FL190	-	-	RNAV1
007	DF	NIDAP	-	-	-3.7	-	-	-	-	-	RNAV1

SESRU5F RNAV1

Minimum climb gradient 5.4% up to 9000 ft, due to operational reasons.

001	CF	SOBAB	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	TULGO	-	058 (61.8)	-3.7	10	-	-	-	-	RNAV1
003	TF	KK008	-	107 (111.2)	-3.7	9.2	-	+9000	-	-	RNAV1
004	TF	SESRU	-	107 (111.2)	-3.7	38.6	-	-	-	-	RNAV1

TASMI5F RNAV1

Minimum climb gradient 5.2% up to 9000 ft, due to operational reasons.

001	CF	SOBAB	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	TULGO	-	058 (61.8)	-3.7	10	-	-	-	-	RNAV1
003	TF	KK019	-	058 (61.8)	-3.7	10.8	-	+9000	-	-	RNAV1
004	TF	TASMI	-	326 (330.1)	-3.7	34.3	-	-	-	-	RNAV1

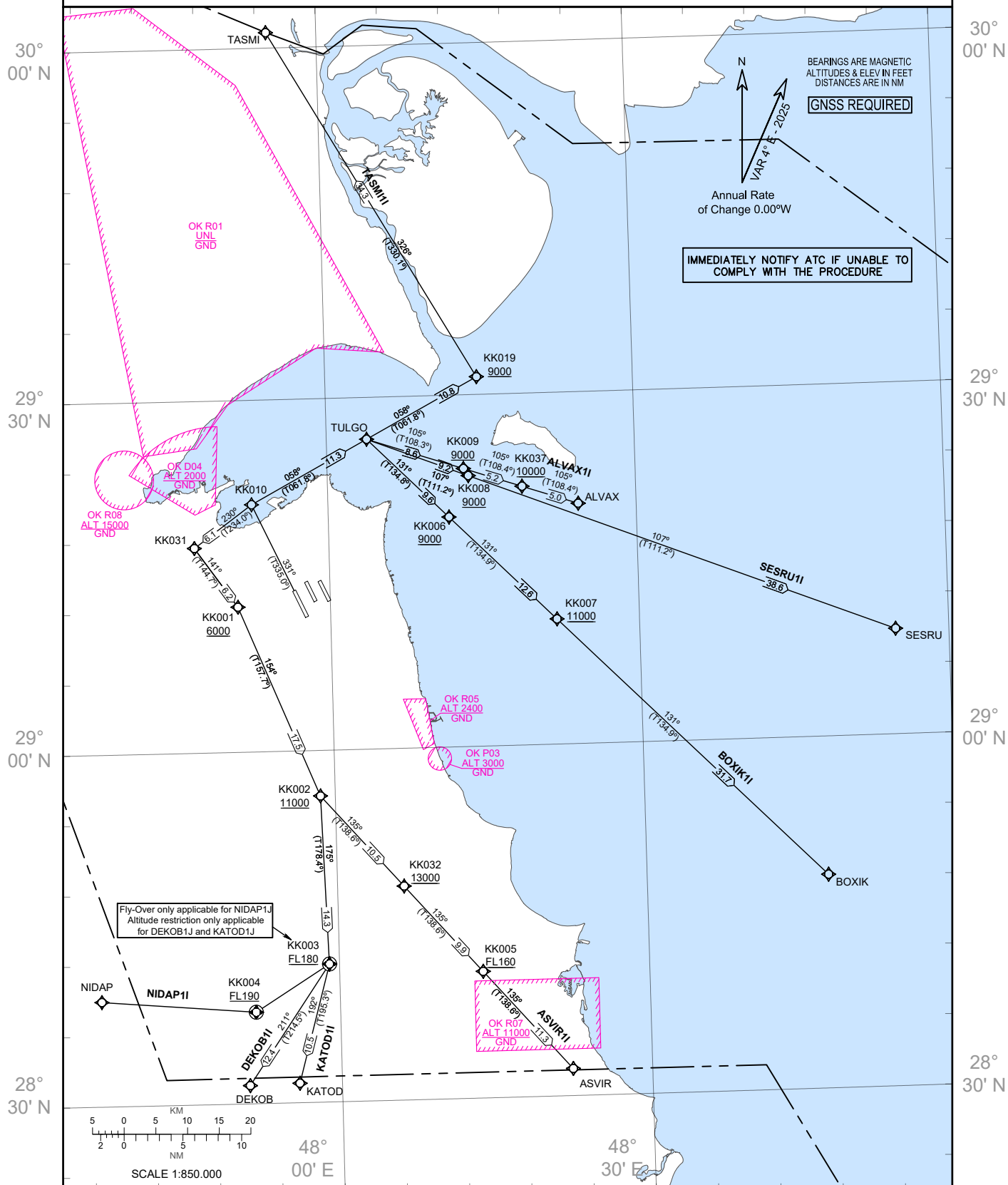
STANDARD
DEPARTURE CHART
INSTRUMENT (SID) -
ICAO

AD ELEV 204 FT
VAR 4°E
Trans Level FL 150
Trans Alt 13000

APP	124.800
TWR	118.300
GMC	121.700
GMC-W	121.850
DEL	126.775
ATIS	126.225

KUWAIT / Kuwait Intl
STATE OF KUWAIT
RNAV1 (GNSS) SID RWY 34

ALVAX1I, ASVIR1I, BOXIK1I, DEKOB1I, KATOD1I, NIDAP1I, SESRU1I, TASM1I



KUWAIT International Airport

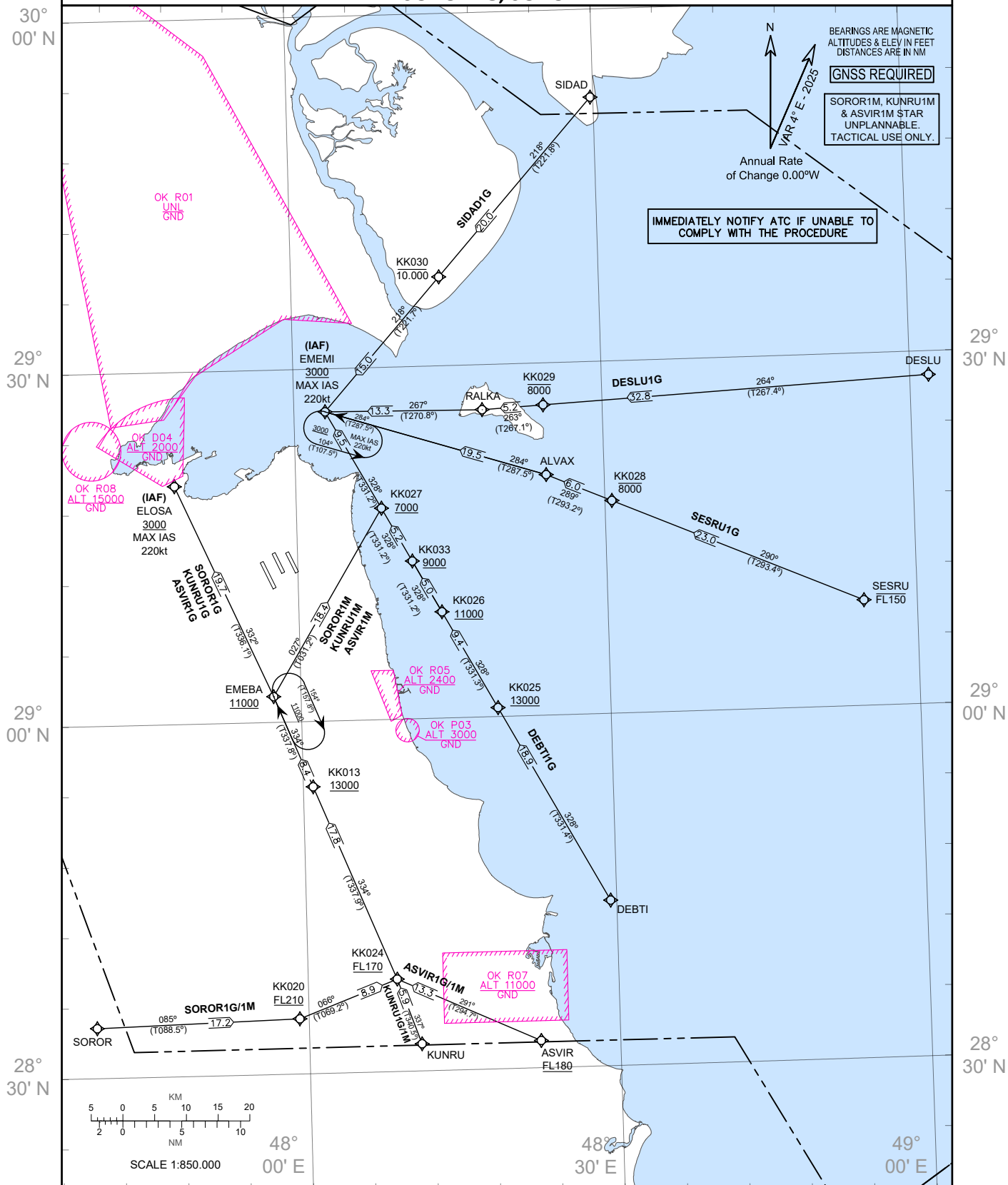
WAYPOINTS COORDINATES	
WPT	COORD
ALVAX	29°20'30.0"N 048°24'22.0"E
ASVIR	28°32'20.0"N 048°22'20.0"E
BOXIK	28°48'14.0"N 048°47'34.0"E
DEKOB	28°31'35.0"N 047°51'06.0"E
KATOD	28°31'41.0"N 047°55'54.0"E
KK001	29°12'24.3"N 047°51'00.6"E
KK002	28°56'08.4"N 047°58'34.4"E
KK003	28°41'47.9"N 047°59'02.0"E
KK004	28°37'49.8"N 047°51'50.6"E
KK005	28°40'49.5"N 048°13'53.2"E
KK006	29°19'38.1"N 048°11'45.6"E
KK007	29°10'41.6"N 048°21'59.4"E
KK008	29°23'07.2"N 048°13'44.4"E
KK009	29°23'44.1"N 048°13'17.1"E
KK010	29°21'06.7"N 047°52'34.0"E
KK019	29°31'31.8"N 048°14'48.1"E
KK031	29°17'29.7"N 047°46'54.1"E
KK032	28°48'16.3"N 048°06'27.1"E
KK037	29°22'05.1"N 048°18'56.6"E
NIDAP	28°38'57.0"N 047°36'56.0"E
SESRU	29°09'00.0"N 048°54'50.0"E
TASMI	30°01'20.0"N 047°55'05.0"E
TULGO	29°26'27.0"N 048°03'56.0"E

PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ALVAX1I RNAV1											
Minimum climb gradient 5.6% up to 9000 ft, due to operational reasons.											
001	CF	KK010	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	TULGO	-	058 (61.8)	-3.7	11.3	-	-	-	-	RNAV1
003	TF	KK009	-	105 (108.3)	-3.7	8.6	-	+9000	-	-	RNAV1
004	TF	KK037	-	105 (108.4)	-3.7	5.2	-	+10000	-	-	RNAV1
005	TF	ALVAX	-	105 (108.4)	-3.7	5	-	-	-	-	RNAV1
ASVIR1I RNAV1											
Minimum climb gradient 4.8% up to 11000ft, and then, climb gradient of 4.1% up to FL160, due to operational reasons.											
001	CF	KK010	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	KK031	-	230 (234.0)	-3.7	6.1	-	-	-	-	RNAV1
003	TF	KK001	-	141 (144.7)	-3.7	6.2	-	+6000	-	-	RNAV1
004	TF	KK002	-	154 (157.7)	-3.7	17.5	-	+11000	-	-	RNAV1
005	TF	KK032	-	135 (138.6)	-3.7	10.5	-	+13000	-	-	RNAV1
006	TF	KK005	-	135 (138.6)	-3.7	9.9	-	+FL160	-	-	RNAV1
007	TF	ASVIR	-	135 (138.6)	-3.7	11.3	-	-	-	-	RNAV1
BOXIK1I RNAV1											
Minimum climb gradient 5.4% up to 9000 ft, due to operational reasons.											
001	CF	KK010	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	TULGO	-	058 (61.8)	-3.7	11.3	-	-	-	-	RNAV1
003	TF	KK006	-	131 (134.8)	-3.7	9.6	-	+9000	-	-	RNAV1
004	TF	KK007	-	131 (134.9)	-3.7	12.6	-	+11000	-	-	RNAV1
005	TF	BOXIK	-	131 (134.9)	-3.7	31.7	-	-	-	-	RNAV1
DEKOB1I RNAV1											
Minimum climb gradient 5.6% up to FL180 ft, due to operational reasons.											
001	CF	KK010	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	KK031	-	230 (234.0)	-3.7	6.1	-	-	-	-	RNAV1
003	TF	KK001	-	141 (144.7)	-3.7	6.2	-	+6000	-	-	RNAV1
004	TF	KK002	-	154 (157.7)	-3.7	17.5	-	+11000	-	-	RNAV1
005	TF	KK003	-	175 (178.4)	-3.7	14.3	-	+FL180	-	-	RNAV1
006	TF	DEKOB	-	211 (214.5)	-3.7	12.4	-	-	-	-	RNAV1
KATOD1I RNAV1											
Minimum climb gradient 5.6% up to FL180 ft, due to operational reasons.											
001	CF	KK010	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	KK031	-	230 (234.0)	-3.7	6.1	-	-	-	-	RNAV1
003	TF	KK001	-	141 (144.7)	-3.7	6.2	-	+6000	-	-	RNAV1
004	TF	KK002	-	154 (157.7)	-3.7	17.5	-	+11000	-	-	RNAV1
005	TF	KK003	-	175 (178.4)	-3.7	14.3	-	+FL180	-	-	RNAV1
006	TF	KATOD	-	192(195.3)	-3.7	10.5	-	-	-	-	RNAV1
NIDAP1I RNAV1											
Minimum climb gradient 5.3% up to FL190 ft, due to operational reasons.											
001	CF	KK010	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	KK031	-	230 (234.0)	-3.7	6.1	-	-	-	-	RNAV1
003	TF	KK001	-	141 (144.7)	-3.7	6.2	-	+6000	-	-	RNAV1
004	TF	KK002	-	154 (157.7)	-3.7	17.5	-	+11000	-	-	RNAV1
005	CF	KK003	Y	175 (178.4)	-3.7	14.3	-	-	-	-	RNAV1
006	DF	KK004	Y	-	-3.7	-	-	+FL190	-	-	RNAV1
007	DF	NIDAP	-	-	-3.7	-	-	-	-	-	RNAV1

SESRU1I RNAV1											
Minimum climb gradient 5.5% up to 9000 ft, due to operational reasons.											
001	CF	KK010	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	TULGO	-	058 (61.8)	-3.7	11.3	-	-	-	-	RNAV1
003	TF	KK008	-	107 (111.2)	-3.7	9.2	-	+9000	-	-	RNAV1
004	TF	SESRU	-	107 (111.2)	-3.7	38.6	-	-	-	-	RNAV1
TASMI1I RNAV1											
Minimum climb gradient 5.2% up to 9000 ft, due to operational reasons.											
001	CF	KK010	-	331 (335.0)	-3.7	-	-	-	-	-	RNAV1
002	TF	TULGO	-	058 (61.8)	-3.7	11.3	-	-	-	-	RNAV1
003	TF	KK019	-	058 (61.8)	-3.7	10.8	-	+9000	-	-	RNAV1
004	TF	TASMI	-	326 (330.1)	-3.7	34.3	-	-	-	-	RNAV1

STANDARD	AD ELEV	204 FT	APP	124.800	KUWAIT / Kuwait Intl STATE OF KUWAIT RNAV1 (GNSS) STAR RWY 16/15R
ARRIVAL CHART	VAR	4°E	TWR	118.300	
INSTRUMENT (STAR) -	Trans Level	FL 150	GMC	121.700	
ICAO	Trans Alt	13000	GMC-W	121.850	
			ATIS	126.225	

ASVIR1G, ASVIR1M, DEBTI1G, DESLU1G, KUNRU1G, KUNRU1M, SESRU1G, SIDAD1G, SOROR1G, SOROR1M



KUWAIT International Airport

WAYPOINTS COORDINATES	
WPT	COORD
ALVAX	29°20'30.0"N 048°24'22.0"E
ASVIR	28°32'20.0"N 048°22'20.0"E
DEBTI	28°44'07.0"N 048°29'25.0"E
DESLU	29°28'00.0"N 049°01'50.0"E
EMEB A	29°02'13.0"N 047°57'21.0"E
IAF ELOSA	29°20'18.1"N 047°48'11.9"E
IAF EMEMI	29°26'21.8"N 048°03'02.3"E
KK013	28°54'27.3"N 048°00'56.9"E
KK020	28°34'43.5"N 047°59'06.1"E
KK024	28°37'53.7"N 048°08'35.9"E
KK025	29°00'46.9"N 048°19'03.4"E
KK026	29°09'04.1"N 048°13'52.9"E
KK027	29°18'01.7"N 048°08'16.3"E
KK028	29°18'07.9"N 048°30'40.5"E
KK029	29°26'26.7"N 048°24'15.5"E
KK030	29°37'35.4"N 048°14'27.4"E
KK033	29°13'27.5"N 048°11'08.1"E
KUNRU	28°32'20.0"N 048°10'50.0"E
RALKA	29°26'11.0"N 048°18'19.0"E
SESRU	29°09'00.0"N 048°54'50.0"E
SIDAD	29°52'31.0"N 048°29'44.0"E
SOROR	28°34'17.0"N 047°39'32.0"E

PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ASVIR1G											
001	IF	ASVIR	-	-	-3.7	-	-	+FL180	-	-	RNAV1
002	TF	KK024	-	291 (294.7)	-3.7	13.3	-	+FL170	-	-	RNAV1
003	TF	KK013	-	334 (337.9)	-3.7	17.8	-	+13000	-	-	RNAV1
004	TF	EMEBA	-	334 (337.8)	-3.7	8.4	-	+11000	-	-	RNAV1
005	TF	ELOSA	-	332 (336.1)	-3.7	19.7	-	+3000	-220	-	RNAV1
ASVIR1M (EMEMI IAF)											
TACTICAL USE ONLY. UNPLANNABLE.											
001	IF	ASVIR	-	-	-3.7	-	-	+FL180	-	-	RNAV1
002	TF	KK024	-	291 (294.7)	-3.7	13.3	-	+FL170	-	-	RNAV1
003	TF	KK013	-	334 (337.9)	-3.7	17.8	-	+13000	-	-	RNAV1
004	TF	EMEBA	-	334 (337.8)	-3.7	8.4	-	+11000	-	-	RNAV1
005	TF	KK027	-	027 (031.2)	-3.7	18.4	-	+7000	-	-	RNAV1
006	TF	EMEMI	-	328 (331.2)	-3.7	9.5	-	+3000	-220	-	RNAV1
DEBT1G											
001	IF	DEBTI	-	-	-3.7	-	-	-	-	-	RNAV1
002	TF	KK025	-	328 (331.4)	-3.7	18.9	-	+13000	-	-	RNAV1
003	TF	KK026	-	328 (331.3)	-3.7	9.4	-	+11000	-	-	RNAV1
004	TF	KK033	-	328 (331.2)	-3.7	5.0	-	+9000	-	-	RNAV1
005	TF	KK027	-	328 (331.2)	-3.7	5.2	-	+7000	-	-	RNAV1
006	TF	EMEMI	-	328 (331.2)	-3.7	9.5	-	+3000	-220	-	RNAV1
DESLU1G											
001	IF	DESLU	-	-	-3.7	-	-	-	-	-	RNAV1
002	TF	KK029	-	264 (267.4)	-3.7	32.8	-	-8000	-	-	RNAV1
003	TF	RALKA	-	263 (267.1)	-3.7	5.2	-	-	-	-	RNAV1
004	TF	EMEMI	-	267 (270.8)	-3.7	13.3	-	+3000	-220	-	RNAV1
KUNRU1G											
001	IF	KUNRU	-	-		-	-	-	-	-	RNAV1
002	TF	KK024	-	337 (340.5)	-3.7	5.9	-	+FL170	-	-	RNAV1
003	TF	KK013	-	334 (337.9)	-3.7	17.8	-	+13000	-	-	RNAV1
004	TF	EMEBA	-	334 (337.8)	-3.7	8.4	-	+11000	-	-	RNAV1
005	TF	ELOSA	-	332 (336.1)	-3.7	19.7	-	+3000	-220	-	RNAV1
KUNRU1M (EMEMI IAF)											
TACTICAL USE ONLY. UNPLANNABLE.											
001	IF	KUNRU	-	-		-	-	-	-	-	RNAV1
002	TF	KK024	-	337 (340.5)	-3.7	5.9	-	+FL170	-	-	RNAV1
003	TF	KK013	-	334 (337.9)	-3.7	17.8	-	+13000	-	-	RNAV1
004	TF	EMEBA	-	334 (337.8)	-3.7	8.4	-	+11000	-	-	RNAV1
005	TF	KK027	-	027 (031.2)	-3.7	18.4	-	+7000	-	-	RNAV1
006	TF	EMEMI	-	328 (331.2)	-3.7	9.5	-	+3000	-220	-	RNAV1
SESRU1G											
001	IF	SESRU	-	-	-3.7	-	-	-FL150	-	-	RNAV1
002	TF	KK028	-	290 (293.4)	-3.7	23.0	-	-8000	-	-	RNAV1
003	TF	ALVAX	-	289 (293.2)	-3.7	6.0	-	-	-	-	RNAV1
004	TF	EMEMI	-	284 (287.5)	-3.7	19.5	-	+3000	-220	-	RNAV1
SIDAD1G											
001	IF	SIDAD	-	-	-3.7	-	-	-	-	-	RNAV1
002	TF	KK030	-	218 (221.8)	-3.7	20.0	-	-10000	-	-	RNAV1
003	TF	EMEMI	-	218 (221.7)	-3.7	15.0	-	+3000	-220	-	RNAV1

Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
SOROR1G											
001	IF	SOROR	-	-		-	-	-	-	-	RNAV1
002	TF	KK020	-	085 (088.5)	-3.7	17.2	-	+FL210	-	-	RNAV1
003	TF	KK024	-	066 (069.2)	-3.7	8.9	-	+FL170	-	-	RNAV1
004	TF	KK013	-	334 (337.9)	-3.7	17.8	-	+13000	-	-	RNAV1
005	TF	EMEBA	-	334 (337.8)	-3.7	8.4	-	+11000	-	-	RNAV1
006	TF	ELOSA	-	332 (336.1)	-3.7	19.7	-	+3000	-220	-	RNAV1
SOROR1M (EMEMI IAF)											
TACTICAL USE ONLY. UNPLANNABLE.											
001	IF	SOROR	-	-		-	-	-	-	-	RNAV1
002	TF	KK020	-	085 (088.5)	-3.7	17.2	-	+FL210	-	-	RNAV1
003	TF	KK024	-	066 (069.2)	-3.7	8.9	-	+FL170	-	-	RNAV1
004	TF	KK013	-	334 (337.9)	-3.7	17.8	-	+13000	-	-	RNAV1
005	TF	EMEBA	-	334 (337.8)	-3.7	8.4	-	+11000	-	-	RNAV1
006	TF	KK027	-	027 (031.2)	-3.7	18.4	-	+7000	-	-	RNAV1
007	TF	EMEMI	-	328 (331.2)	-3.7	9.5	-	+3000	-220		RNAV1

Path Terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
RNAV 1 REQUIRED									
HM	EMEBA	334 (337.8)	-3.7	1 min	R	11000	-	-	RNAV1
HM	EMEMI	284 (287.5)	-3.7	1 min	L	3000	-	-220	RNAV1

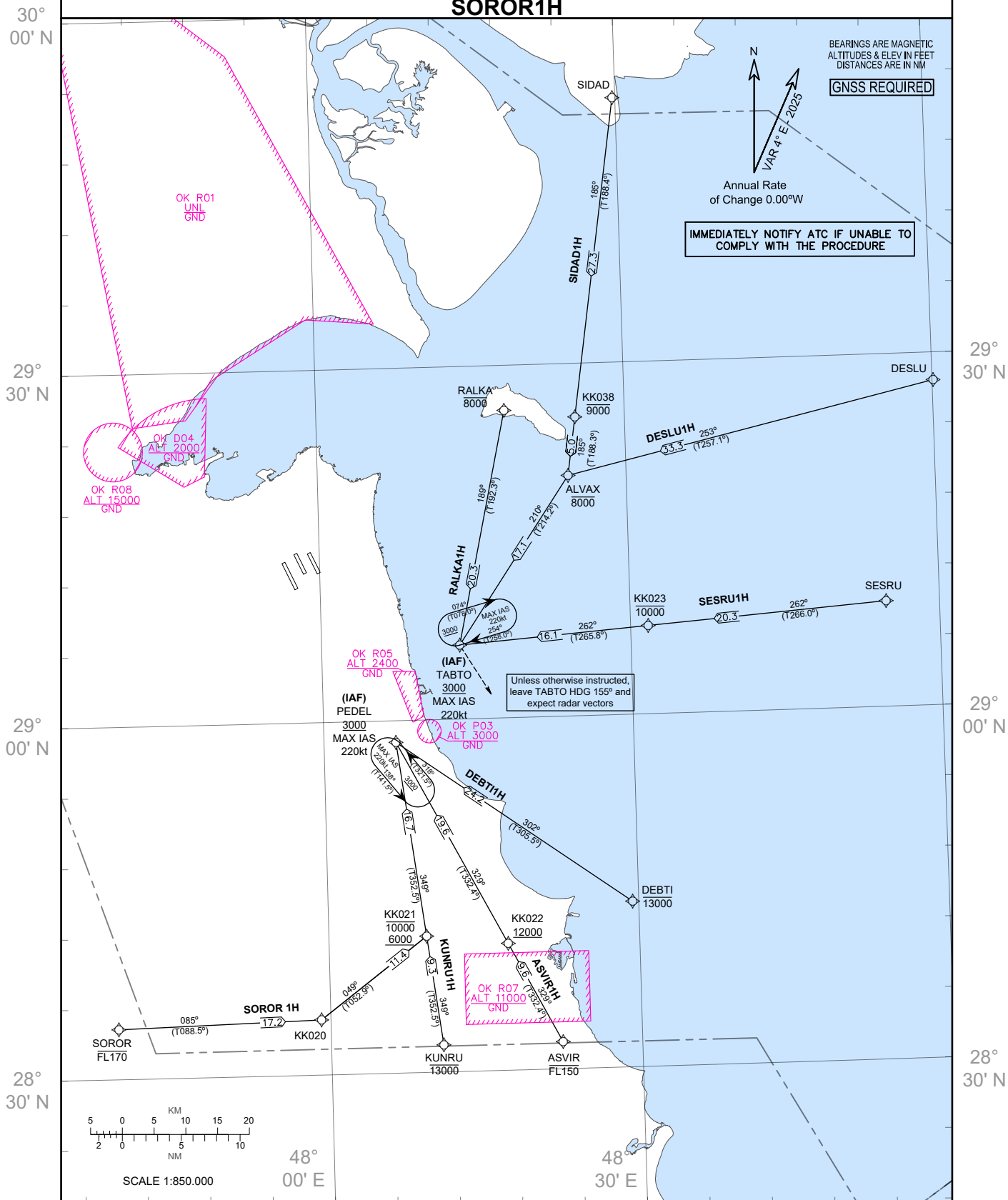
STANDARD
ARRIVAL CHART
INSTRUMENT (STAR) -
ICAO

AD ELEV 204 FT
VAR 4°E
Trans Level FL 150
Trans Alt 13000

APP 124.800
TWR 118.300
GMC 121.700
GMC-W 121.850
ATIS 126.225

KUWAIT / Kuwait Intl
STATE OF KUWAIT
RNAV1 (GNSS) STAR RWY 34/33L

ASVIR1H, DEBTI1H, DESLU1H, KUNRU1H, RALKA1H, SESRU1H, SIDAD1H, SOROR1H



KUWAIT International Airport

WAYPOINTS COORDINATES	
WPT	COORD
ALVAX	29°20'30.0"N 048°24'22.0"E
ASVIR	28°32'20.0"N 048°22'20.0"E
DEBTI	28°44'07.0"N 048°29'25.0"E
DESLU	29°28'00.0"N 049°01'50.0"E
IAF PEDEL	28°58'11.0"N 048°06'58.0"E
IAF TABTO	29°06'19.0"N 048°13'24.0"E
KK020	28°34'43.5"N 047°59'06.1"E
KK021	28°41'37.4"N 048°09'26.8"E
KK022	28°40'49.5"N 048°17'18.0"E
KK023	29°07'31.8"N 048°31'42.6"E
KK038	29°25'27.3"N 048°25'11.5"E
KUNRU	28°32'20.0"N 048°10'50.0"E
RALKA	29°26'11.0"N 048°18'19.0"E
SESRU	29°09'00.0"N 048°54'50.0"E
SIDAD	29°52'31.0"N 048°29'44.0"E
SOROR	28°34'17.0"N 047°39'32.0"E

PROCEDURE TABULAR DESCRIPTION											
Serial number	Path terminator	Waypoint identifier	Fly-Over	Course/Track °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Navigation specification
ASVIR1H RNAV1											
001	IF	ASVIR	-	-	-3.7	-	-	-FL150	-	-	RNAV1
002	TF	KK022	-	329 (332.4)	-3.7	9.6	-	+12000	-	-	RNAV1
003	TF	PEDEL	-	329 (332.4)	-3.7	19.5	-	+3000	-220	-	RNAV1
DEBT1H RNAV1											
001	IF	DEBTI	-	-	-3.7	-	-	-13000	-	-	RNAV1
002	TF	PEDEL	-	302 (305.5)	-3.7	24.2	-	+3000	-220	-	RNAV1
DESLU1H RNAV1											
001	IF	DESLU	-	-	-3.7	-	-	-	-	-	RNAV1
002	TF	ALVAX	-	253 (257.1)	-3.7	33.3	-	-8000	-	-	RNAV1
003	TF	TABTO	-	210 (214.2)	-3.7	17.1	-	+3000	-220	-	RNAV1
KUNRU1H RNAV1											
001	IF	KUNRU	-	-	-3.7	-	-	-13000	-	-	RNAV1
002	TF	KK021	-	349 (352.5)	-3.7	9.3	-	+6000 -10000	-	-	RNAV1
003	TF	PEDEL	-	349 (352.5)	-3.7	16.7	-	+3000	-220	-	RNAV1
RALKA1H RNAV1											
001	IF	RALKA	-	-	-3.7	-	-	-8000	-	-	RNAV1
002	TF	TABTO	-	189 (192.3)	-3.7	20.3	-	+3000	-220	-	RNAV1
SESRU1H RNAV1											
001	IF	SESRU	-	-	-3.7	-	-	-	-	-	RNAV1
002	TF	KK023	-	262(266.0)	-3.7	20.3	-	-10000	-	-	RNAV1
003	TF	TABTO	-	262 (265.8)	-3.7	16.1	-	+3000	-220	-	RNAV1
SIDAD1H RNAV1											
001	IF	SIDAD	-	-	-3.7	-	-	-	-	-	RNAV1
002	TF	KK038	-	185 (188.4)	-3.7	27.3	-	-9000	-	-	RNAV1
003	TF	ALVAX	-	185 (188.3)	-3.7	5.0	-	-8000	-	-	RNAV1
004	TF	TABTO	-	210 (214.2)	-3.7	17.1	-	+3000	-220	-	RNAV1
SOROR1H RNAV1											
001	IF	SOROR	-	-	-3.7	-	-	-FL170	-	-	RNAV1
002	TF	KK020	-	085 (088.5)	-3.7	17.2	-	-	-	-	RNAV1
003	TF	KK021	-	049 (052.9)	-3.7	11.4	-	+6000 -10000	-	-	RNAV1
004	TF	PEDEL	-	349 (352.5)	-3.7	16.7	-	+3000	-220	-	RNAV1

Path Terminator	Waypoint identifier	Course/Track °M (°T)	Magnetic variation	Distance/ Outbound time	Turn direction	MNM altitude (ft)	MAX altitude (ft)	Speed (kt)	Navigation specification
RNAV 1 REQUIRED									
HM	PEDEL	318 (321.5)	-3.7	1 min	L	3000	-	-220	RNAV1
HM	TABTO	254 (258.0)	-3.7	1 min	R	3000	-	-220	RNAV1