

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**

TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> LEBANON MUNI	<u>AIRPORT ID</u> KLEB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> LEBANON	<u>STATE</u> NH	
<u>AIRPORT ELEVATION</u> 603	<u>TDZE</u> 573	<u>SUPERSEDED</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 09/17/2015	<u>MAG VAR</u> 16W	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 23 APRIL 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 094/30 CW 274/30	NOPT	094/6 CW 274/6		7000
2. 094/6 CW 274/6		JIKOR	IF/IAF	4700
3. 274/30 CW 004/30		CABIP	IAF	6600
4. 004/30 CW 094/30		PAKTE	IAF	6400

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CABIP	IAF	JIKOR	NOPT	TF	FB	1.00	274.07	9.00	4700
PAKTE	IAF	JIKOR	NOPT	TF	FB	1.00	093.79	9.00	4700
JIKOR	IF/IAF	YASUP		TF	FB	1.00	183.93	6.19	2900
YASUP	FAF	WONGI/3.76 NM TO RW18		TF	FB	0.30	183.95	3.21	
WONGI/3.76 NM TO RW18		RW18	MAP	TF	FO	0.30	183.95	3.76	
RW18	MAP	2050 MSL		CA	FO		183.95		2050
2050 MSL		JIKOR		DF	FO	1.00			4700



MISSED APPROACH

MAP:
LPV: DA
LNAV: RW18

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 2050 THEN CLIMBING RIGHT TURN TO 4700 DIRECT JIKOR AND HOLD. CONTINUE CLIMB IN HOLD TO 4700.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)	
2.	HOLD N JIKOR, LT, 183.93 INBOUND, 4700 FT. IN LIEU OF PT (IAF), MAX 6000.				
3. FAC:	183.95	FAF: YASUP	DIST FAF TO MAP: 6.97	DIST FAF TO THLD: 6.97	
4. MIN ALT:	JIKOR 4700, YASUP 2900, WONGI/3.76 NM TO RW18 1840*				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	360 HAT: 0.99	GS ANT:
6. MIN GP INCPT:	2900	GP ALT AT FAF : YASUP 2900	OM:	MM:	IM:
7. GP ANGLE:	3.10	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 42.4	
8. MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
*LNAV ONLY

ADDITIONAL FLIGHT DATA:

FAS OBST: 1440 AAO 434112.32N/0722012.32W
CHART CIRCLING ICON.
WAAS CHANNEL #93710
REFERENCE PATH ID: W18A
LTP HAE: 144.1 M

MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ CAT A, B 1200-2, CAT C 1300-3, CAT D 1500-3



CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	933	1	360	933	1	360	933	1	360	933	1	360			
LNAV MDA	1700	1 1/4	1127	1700	1 1/2	1127	1700	3	1127	1700	3	1127			
CIRCLING	1700	1 1/4	1097	1720	1 1/2	1117	1820	3	1217	2020	3	1417			

CHANGES - REASONS

- 1. REMOVED DME/DME RNP-0.3 NA AND ADDED EQUIPMENT REQUIREMENTS NOTE: RNP APCH - 8260.19H PARA 8-6-8 B(1).
- 2. UPDATED CHART NOTE: FROM "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA" TO "RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - 8260.19H 8-6-11 K (3).
- 3. REMOVED MSA AND ADDED T DESIGN INITIAL LEGS AND TAA - FPT REQUEST.
- 4. CHANGED LPV MDA/HAT FROM "1006/433" TO "933/360", LNAV MDA/HAT FROM "1620/1047" TO "1700/1127", CIRCLING CAT A MDA/HAA FROM "1640/1037" TO "1700/1097", CAT C FROM "1740/1137" TO "1820/1217" AND CAT D FROM "1740/1137" TO "2020/1417" - NEW CONTROLLING OBSTACLES AND NEW CIRCLING CRITERIA.
- 5. REMOVED RUCKY AND MPV VOR/DME INITIALS AND LEB FEEDER - FPT REQUEST.
- 6. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 3900 DIRECT VACUL AND RIGHT TURN VIA 288.35 TRACK TO WETOX AND RIGHT TURN VIA 036.78 TRACK TO JIKOR AND HOLD" TO "CLIMB TO 2050 THEN CLIMBING RIGHT TURN TO 4700 DIRECT JIKOR AND HOLD CONTINUE CLIMB IN HOLD TO 4700" - AIRCRAFT ALTITUDE AT CLEARANCE LIMIT IS NOT AT OR ABOVE THE CLEARANCE LIMIT ALTITUDE.
- 7. DISTANCE WONGI TO RW18 CHANGED FROM "3.9 NM" TO "3.8 NM" AND ALTITUDE FROM "1860" TO "1840" - WONGI RELOCATED TO BE PLACED ON VERTICAL PROFILE.
- 8. ADDITIONAL FLIGHT DATA: ADDED CHART CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED.
- 9. CRC REMAINDER CHANGED FROM "5C3C2E0A" TO "A2FAAD81" - GLIDEPATH PATH ANGLE INCREASE FROM 3.00 TO 3.10 AND TCH UPDATED TO 42.4 TO MATCH THE ILS; CHANGED LTP/FTP LATITUDE FROM "433745.5100N", LTP/FTP LONGTITUDE FROM "0721825.5100W" TO "433745.5075N" AND "0721826.5065W"; CHANGED FPAP LATITUDE FROM "433618.3500N", FPAP LONGITUDE FROM "0720800.95.00W" TO "433618.3520N" AND 0721800.9470W".
- 10. RAISED JIKOR HOLDING ALTITUDE FROM "3900" TO "4700" - ALTITUDE TO SUPPORT NEW TAA DESIGN CONSTRAINTS.
- 11. DELETED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON MPV VOR/DME AIRWAY RADIALS 173 CW 237 - NO LONGER NEEDED WITH ADDITION OF TAA.
- 12. LPV VISIBILITY CHANGED FROM "1 1/2" TO "1" - DUE TO LOWER DA/HAT.
- 13. CHANGED JIKOR HOLD PATTERN INBOUND LEG LENGTH FROM "4 NM" TO "5 NM" - IAW 8260.3D, TABLE 17-10-1.
- 14. CHANGED INTERMEDIATE SEGMENT LENGTH FROM "6.1" TO "6.2" NM - PFAF YASUP FIX RELOCATION.
- 15. CHANGED THE FINAL ANGLE FROM "3.00" TO "3.10" - TO MITIGATE OBSTACLES AND PROVIDE LOWER MINIMA FOR THE LPV.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZBW, ARPT MGR

<u>FLIGHT CHECKED BY</u>	<i>Digitally signed by</i> DAVID DANNER	<u>OFFICE</u>	<u>DATE</u>	
DURLEY J FELDER	Feb 07, 2020	FICO	2/4/20	
<u>DEVELOPED BY</u>	<i>Digitally signed by</i> DAVID DANNER	<u>OFFICE</u>	<u>DATE</u>	
JOHN BORDY (ARTHUR ULVESTAD)	Feb 07, 2020	AJV-A422	11/29/2019	
<u>APPROVED BY</u>	<i>Digitally signed by</i> DAVID DANNER	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
MARLON ROBINSON	Feb 07, 2020	AJV-A420		MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLEB
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	433745.5075N
LTP/FTP LONGITUDE	0721826.5065W
LTP/FTP ELLIPSOIDAL HEIGHT	+01441
FPAP LATITUDE	433618.3520N
FPAP LONGITUDE	0721800.9470W
THRESHOLD CROSSING HEIGHT (TCH)	00042.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	A2FAAD81

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01718
FPAP ORTHOMETRIC HEIGHT	+01718

