

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> LAKELAND LINDER INTL	<u>AIRPORT ID</u> KLAL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 5	<u>ORIGINAL/AMENDMENT</u> ORIG-F	<u>CITY</u> LAKELAND	<u>STATE</u> FL
<u>AIRPORT ELEVATION</u> 142	<u>TDZE</u> 136	<u>SUPERSEDED</u> RNAV (GPS) RWY 5	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>DATED</u> 07/20/2017	<u>MAG VAR</u> 4W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 28 FEBRUARY 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 319/30 CW 139/30	NOPT	319/20 CW 139/20		2800
1. 319/20 CW 139/20		ZUXON	IF/IAF	2700
2. 139/30 CW 229/30		IPUNE	IAF	2700
3. 229/30 CW 319/30		SANOY	IAF	2700

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
IPUNE	IAF	ZUXON	NOPT	TF	FB	1.00	138.75	5.00	2700
SANOY	IAF	ZUXON	NOPT	TF	FB	1.00	318.81	5.00	2700
ZUXON	IF/IAF	BIYAT		TF	FB	1.00	048.78	6.10	1700
BIYAT	FAF	RW05	MAP	TF	FO	0.30	048.82	4.69	
RW05	MAP	336 MSL		CA			048.82		
336 MSL		OBTOQ		DF	FB	1.00			
OBTOQ		PLUMY		TF	FO	1.00	311.01	12.17	2000



MISSED APPROACH

MAP:
LPV: DA
LNAV/VNAV: DA
LNAV: RW05

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT OBTOQ AND LEFT TURN ON TRACK 311.01 TO PLUMY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)					
2.	HOLD SW ZUXON, RT, 048.78 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.								
3. FAC:	048.82	FAF: BIYAT	DIST FAF TO MAP: 4.69	DIST FAF TO THLD: 4.69					
4. MIN ALT:	ZUXON 2700, BIYAT 1700								
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.47	GS ANT:				
6. MIN GP INCPT: 1700	GP ALT AT FAF : BIYAT 1700		OM:	MM:	IM:				
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 56.4						
8. MSA FROM:									

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLANT CITY ALTIMETER SETTING AND INCREASE ALL DA/MDA 20 FT AND LNAV CAT C/D VISIBILITY 1/8 SM.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PLANT CITY ALTIMETER SETTING.
CHART NOTE: CIRCLING NA TO RWYS 8, 26.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 197 TREE 275835N/0820146W
CHART VDP AT 1.17 NM TO RW05*
*LNAV ONLY
WAAS CHANNEL #42805
REFERENCE PATH ID: W05A
HOLD NE, RT, 241.00 INBOUND
LTP HAE: 13.9 M



MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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	336	3/4	200	336	3/4	200	336	3/4	200	336	3/4	200			
LNAV/VNAV DA	505	1 1/4	369	505	1 1/4	369	505	1 1/4	369	505	1 1/4	369			
LNAV MDA	560	1	424	560	1	424	560	1 1/4	424	560	1 1/4	424			
CIRCLING	600	1	458	660	1	518	660	1 1/2	518	700	2	558			

CHANGES - REASONS

1. CHANGED ALL REFERENCES FROM LAKELAND LINDER RGNL TO LAKELAND LINDER INTL. - AIRPORT NAME CHANGE.
2. DELETED CHART NOTE: DME/DME RNP-0.3 NA. - FAAO 8260.19H PARAGRAPH 1-1-5 F.
3. ADDED RNP APCH TO PBN REQUIREMENT NOTES - FAAO 8260.19H PARAGRAPH 8-6-8B.

PDF EDITS:
1. CORRECT FLIGHT INSPECTION NOT REQUIRED STATEMENT TO NEW MEMO.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: KLAL ARPT MGR, KLAL ATCT, KTPA ATCT, ZMA, ATA

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018.
SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED.

OFFICE
DATE

DEVELOPED BY Digitally signed by

LIAM DONAHUE **LIAM DONAHUE**

Digitally signed by
DONALD H LANIER
Nov 14, 2018

OFFICE
DATE
AJV-5431 10/11/2018

APPROVED BY Oct 10, 2018

PATRICK MULQUEEN Digitally signed by
DONALD H LANIER
Nov 14, 2018

OFFICE
DATE
AJV-5430
TITLE
MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLAL
RUNWAY	RW05
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W05A
LTP/FTP LATITUDE	275900.3890N
LTP/FTP LONGITUDE	0820113.3830W
LTP/FTP ELLIPSOIDAL HEIGHT	+00139
FPAP LATITUDE	280003.7300N
FPAP LONGITUDE	0820002.3900W
THRESHOLD CROSSING HEIGHT (TCH)	00056.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	CE879DA6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00396
FPAP ORTHOMETRIC HEIGHT	+00396

