

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23

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> VOR RWY 9	<u>ORIGINAL/AMENDMENT</u> 4E	<u>CITY</u> LAKELAND	<u>STATE</u> FL	
<u>AIRPORT ELEVATION</u> 142	<u>TDZE</u> 132	<u>SUPERSEDED</u> VOR RWY 9	<u>ORIGINAL/AMENDMENT</u> 4D	<u>DATED</u> 07/20/2017	<u>MAG VAR</u> 1E	<u>EPOCH YEAR</u> 1965
<u>FACILITY</u> LAL	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
LLEGO/10.92 DME/RADAR	IF	AIRBS/4.92 DME/RADAR					095.65	6.00 (LAL R-276)	1400

MISSED APPROACH

MAP:

3.84 NM AFTER AIRBS/LAL 4.92 DME/RADAR OR AT HANAX/1.08 DME FIX

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 294 AND ON LAL VORTAC R-330 TO PLUMY INT/PIE 33.35 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT LLEGO
- 3. FAC:** 095.65 **FAF:** AIRBS/4.92 DME/RADAR **DIST FAF TO MAP:** 3.84 **DIST FAF TO THLD:** 3.84
- 4. MIN ALT:** LLEGO/10.92 DME/RADAR 2000, AIRBS/4.92 DME/RADAR 1400, UDATE/2.80 DME 700*
- 8. MSA FROM:** LAL VORTAC 080-310 2700, 310-080 2200

EQUIPMENT REQUIREMENTS NOTES:

RADAR REQUIRED FOR PROCEDURE ENTRY.
DME OR RADAR REQUIRED.

NOTES:

*720 WHEN USING PLANT CITY ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PLANT CITY ALTIMETER SETTING AND INCREASE ALL MDA 20 FEET; INCREASE CIRCLING CAT C VISIBILITY 1/8 SM.
CHART NOTE: VDP NA WHEN USING PLANT CITY ALTIMETER SETTING.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-9 CAT C/D VISIBILITY TO 1 5/8 SM; INCREASE UDATE FIX MINIMUMS S-9 CAT C/D VISIBILITY TO 1 3/4 SM.
CHART NOTE: FOR INOPERATIVE ALS WHEN USING PLANT CITY ALTIMETER SETTING, INCREASE UDATE FIX MINIMUMS S-9 CAT C/D VISIBILITY TO 1 1/8 SM.
CHART NOTE: CIRCLING NA TO RWYS 8 AND 26.



ADDITIONAL FLIGHT DATA:

CHART PIE VORTAC R-067 AT PLUMY INT/PIE 33.35 DME.
AIRBS TO RW09: 2.98/52.
CHART VDP AT 2.07 DME
DISTANCE VDP TO THLD 0.99 NM
CHART FAS OBST: 212 TREE 275928N/0820209W.
CHART 385 STACK 275917N/0820450W.
FAC CROSSES RWY C/L EXTENDED 3025 FT FROM THLD.
HOLD NE, RT, 246.70 INBOUND

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
S-09	700	1/2	568	700	1/2	568	700	1 1/4	568	700	1 1/4	568			
CIRCLING	700	1	558	700	1	558	700	1 1/2	558	700	2	558			
UPDATE FIX MINIMUMS															
S-09	500	1/2	368	500	1/2	368	500	3/4	368	500	3/4	368			
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. REPLACED ADDITIONAL FLIGHT DATA PLANVIEW NOTE: RADAR REQUIRED WITH RADAR REQUIRED FOR PROCEDURE ENTRY IN EQUIPMENT REQUIREMENTS NOTES. - FAAO 8260.19H PARAGRAPH 8-6-8.
3. MOVED DME OR RADAR REQUIRED NOTE FROM NOTES TO EQUIPMENT REQUIREMENTS NOTES. - FAAO 8260.19H PARAGRAPH 8-6-8

12/14/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 11/14/18.
1. MALSR CHANGED TO ALS IN BACKUP ALTIMETER INOPERATIVE LIGHTING NOTE.

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

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: TAMPA APP CON, LAL ATCT, ZMA, AMGR

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

DEVELOPED BY
LIAM DONAHUE
Digitally signed by
LIAM DONAHUE
Dec 14, 2018

APPROVED BY
PATRICK MULQUEEN
Digitally signed by
DONALD H LANIER
Dec 17, 2018

Digitally signed by
DONALD H LANIER
Dec 17, 2018

OFFICE
DATE

OFFICE
AJV-5431
DATE
10/11/2018

OFFICE
AJV-5430
DATE

TITLE
MANAGER
QUALITY
4
CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u> LAKELAND LINDER INTL	<u>AIRPORT ID</u> KLAL	<u>PROCEDURE NAME</u> VOR RWY 9	<u>AMDT NO.</u> 4E	<u>CITY</u> LAKELAND	<u>STATE</u> FL	<u>AIRPORT ELEVATION</u> 142	<u>FACILITY</u> LAL
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PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM
LLEGO/10.92 DME/RADAR

TO
AIRBS/4.92 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u> 6.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (12-001581)	280126.16N/0821046.28W	419	50	20	2C	500				AT481	1400
2.TERRAIN	275945.00N/0820942.00W	155 (200)								AS1000	1200

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM
AIRBS/4.92 DME/RADAR

TO
UPDATE/2.80 DME

<u>RNP</u>	<u>DISTANCE</u> 2.12	<u>PAT</u>	<u>MAP</u>	<u>HAT</u> 568			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.STACK (12-000782)	275917.00N/0820450.00W		385	250	50	4D	250				AC50	700

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: STEPDOWN

FROM
UPDATE/2.80 DME

TO
3.84 NM AFTER AIRBS/LAL 4.92 DME/RADAR OR AT HANAX/1.08 DME FIX

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	1.72		3.84 NM AFTER AIRBS/LAL 4.92 DME/RADAR OR AT HANAX/1.08 DME FIX	368								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
4.TREE (KLAL0019)	275927.87N/0820208.79W		212	20	3	1A	250				MA1	500

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH

FROM
3.84 NM AFTER AIRBS/LAL 4.92 DME/RADAR OR AT HANAX/1.08 DME FIX

TO
PLUMY INT/PIE 33.35 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
					250							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (12-004657)	275956.21N/0820144.79W		258	50	20	2C		ASC				2000
6.TOWER (12-002037)	281237.40N/0820257.47W		726	20	3	1A	1000					1800
7.TERRAIN	280518.00N/0815851.00W		270 (300)								AS1500	1800

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
8.TANK (12-023267)	275827.38N/0820038.43W	1.30	558/458	288	20	3	1A	300		SI	700/600
CATEGORY B											
9.TOWER (12-004824)	280056.98N/0815958.49W	1.50	558/518	292	500	50	5D	300		SI	700/660
CATEGORY C											
9.TOWER (12-004824)	280056.98N/0815958.49W	1.70	558/518	292	500	50	5D	300		SI	700/660
CATEGORY D											
10.TOWER (12-005041)	280137.65N/0820055.48W	2.30	558/558	321	20	3	1A	300		SI/HAA	700/700

CIRCLING REMARKS:

MSA

CENTER
LAL VORTAC

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
080-310	TOWER (12-004378)	274910.84N/0821538.00W	232	16.5	1667	20	3	1A	1000			2700
310-080	TOWER (12-002269)	280736.00N/0813302.00W	070	26.0	1133	500	50	5D	1000			2200

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
LAL TOWER, TPA APP CON, ZMA ARTCC

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> KLAL	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KLAL	<u>DISTANCE</u> 0	<u>SERVICE-A</u> N	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS	<u>LOCATION</u> KPCM	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KPCM	<u>DISTANCE</u> 7.7	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 18

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KLAL 142, KPCM 139
RA = 17.8.

<u>PRIMARY NAVAID</u> LAL VORTAC	<u>MONITOR POINT</u> AOCC	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW23 - HIRL (PCL), PAPI-4L		NPI-F	
RW27 - HIRL (PCL), PAPI-4L		NPI-G	
RW05 - HIRL (PCL), PAPI-4L		PIR-G	
RW09 - MALSR (PCL), HIRL (PCL), PAPI-4R		PIR-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 51.8
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input type="checkbox"/>	3025	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>		FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
LAKELAND LINDER INTL	KLAL	VOR RWY 9	4E	LAKELAND	FL	142	LAL

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
LAKELAND LINDER INTL	KLAL	VOR RWY 9	4E	LAKELAND	FL	142	LAL
PART D: AIRSPACE							
DOCKET #							
ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE							
DISTANCE FROM	MAP	TO 1000FT POINT	2.84				
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.21				
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	96.65				
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	148				
DISTANCE FROM	MAP	TO 1500FT POINT	9.24				
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	7.46				
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	96.65				
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	155				
THRESHOLD COORDINATES (IF STR-IN)	275921.25N/0820201.93W						
ARP COORDINATES	275920.10N/0820106.80W						
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 9 DISTANCE 0.81 NM						
FAF COORDINATES	275944.43N/0820621.14W						
FIX NAME COORDINATES							
REMARKS							
NO ADDITIONAL AIRSPACE REQUIRED.							



<u>AIRPORT</u> LAKELAND LINDER INTL	<u>AIRPORT ID</u> KLAL	<u>PROCEDURE NAME</u> VOR RWY 9	<u>AMDT NO.</u> 4E	<u>CITY</u> LAKELAND	<u>STATE</u> FL	<u>AIRPORT ELEVATION</u> 142	<u>FACILITY</u> LAL
PART E: PREPARED BY							
<u>NAME</u> LIAM DONAHUE	<u>OFFICE</u> AJV-5431			<u>DATE</u> 10/11/2018	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST		

QUALITY
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CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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