

**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 ID</u> LEB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>CITY</u> LEBANON	<u>STATE</u> NH
<u>AIRPORT ELEVATION</u> 603	<u>TDZE</u> 603	<u>SUPERSEDED</u> RNAV (GPS) RWY 36	<u>DATED</u> 04/23/2020	<u>MAG VAR</u> 16W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 1995
			<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>
CON VOR/DME		UNKER		TF	FB	1.00	301.00	30.33	5000
UNKER	IAF	HIRER		TF	FB	1.00	328.96	6.59	3500
JAMMA	IAF	HIRER		TF	FB	1.00	063.64	13.69	3500
HIRER	IF	ZULAR		TF	FB	1.00	035.97	6.10	2600
ZULAR	FAF	OSICE	MAP	TF	FO	0.30	018.98	5.30	
OSICE	MAP	1003 MSL		CA			018.98		
1003 MSL		UCEKA		DF	FB	1.00			
UCEKA		ZIECH		TF	FO	1.00	013.89	9.45	4000

MISSED APPROACH

MAP:

LNAV: OSICE

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT UCEKA THEN ON TRACK 013.89 TO ZIECH AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. PROFILE STARTS AT HIRER					
3. FAC: 018.98	FAF: ZULAR		DIST FAF TO MAP: 5.30	DIST FAF TO THLD: 5.78	
4. MIN ALT: HIRER 3500, ZULAR 2600					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:	
6. MIN GP INCPT:	GP ALT AT FAF:			OM:	MM: IM:
7. GP ANGLE:	34:1 IS NOT CLEAR	20:1 IS CLEAR	TCH:		
8. MSA FROM: OSICE 5500					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JAMMA ON T315 SOUTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT UNKER ON T393 SOUTH BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CON VOR/DME ON T295 NORTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 15.00 DEGREES.
HOLD S, RT, 353.54 INBOUND.
FAS OBST: 1549 AAO 433347N/0721655W.
FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.

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
LNAV MDA	1740	1 1/4	1137	1740	1 1/2	1137	1740	3	1137	1740	3	1137			

CHANGES - REASONS

- INCORPORATED PREVIOUS P-NOTAM AMDT ORIG-C INTO FORM.
- TERMINAL ROUTES: CHANGED CON VOR/DME SEGMENT RNP VALUE FROM “2” TO “1” – CURRENT DOCUMENTATION STANDARD.
- PROFILE LINE 7: ADDED “20:1 IS CLEAR” – IAW 8260.19J, 8-6-7(G)3(A).
- PBN REQUIREMENTS: ADDED “RNP APCH – GPS”, REMOVED “CHART NOTE: DME/DME RNP-0.3 NA” – IAW 8260.19J, 8-6-8D(5)A(1).
- CHANGED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JAMMA ON V542 SOUTHWEST BOUND” TO “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JAMMA ON T315 SOUTHEAST BOUND” – T315 REPLACED V542.
- CHANGED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT UNKER ON V151 SOUTH BOUND” TO “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT UNKER ON T393 SOUTH BOUND” – T393 REPLACED V151.
- CHANGED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON CON VOR/DME AIRWAY RADIALS 246 CW 330” TO “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CON VOR/DME ON T295 NORTHEAST BOUND” – T295 REPLACED CONVENTIONAL ENROUTE STRUCTURE.
- ADDITIONAL FLIGHT DATA: REMOVED “CHART 1579 AAO 433052N/0721823W” – 7:1 AAO, DOCUMENTED IN -9 PART C GENERAL REMARKS.
- ADDITIONAL FLIGHT DATA: REMOVED “CHART CIRCLING ICON” - CURRENT DOCUMENTATION STANDARDS.
- MINIMUMS: REMOVED CIRCLING MINIMUMS - APPROACH LIES WITHIN CIRCLING RESTRICTED AREA, CANCELS IFDC NOTAM 4/7946.



COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER:

ZBW, LEB ATCT, AMGR

FLIGHT CHECKED BY
JEREMY R VIRT

Digitally signed by
CASIMIR L TABAKA
Apr 21, 2025

OFFICE

AJF

DATE

04/17/2025

DEVELOPED BY
CASIMIR L. TABAKA (ROBERT A. SWINSON)

Digitally signed by
CASIMIR L TABAKA
Apr 21, 2025

OFFICE

AJV-A432

DATE

01/14/2025

APPROVED BY
CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Apr 21, 2025

OFFICE

AJV-A432

DATE

TITLE

MANAGER



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

<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>
LEB	RNAV (GPS) RWY 36	ORIG-E	LEBANON	NH	603	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM CON VOR/DME **TO** UNKER

RNP 1.00 DISTANCE 30.33 PAT MAP HAT HMAS

<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>
TREE	431851.00N/0720424.00W	2849	50	20	2C	2000				AT151	5000
TERRAIN	431851.00N/0720424.00W	2749 (2700)								AS1500	4200

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM UNKER **TO** HIRER

RNP 1.00 DISTANCE 6.59 PAT MAP HAT HMAS

<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>
AAO	432348.00N/0721736.00W	2176	164	98	4E	1000					3200
TERRAIN	432348.00N/0721736.00W	1976 (2000)								AS1500	3500

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM

JAMMA

TO

HIRER

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	13.69										
<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>
AAO	431830.00N/0723951.00W	2241	164	98	4E	1000				AT259	3500
TERRAIN	431912.00N/0723848.00W	1733 (1700)								AS1500	3200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

HIRER

TO

ZULAR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	6.10										
<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>
AAO	433015.86N/0721813.34W	1819	50	20	2C	500					2400
TERRAIN	433015.00N/0721813.34W	1619 (1600)								AS1000	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM

ZULAR

TO

OSICE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	5.30		OSICE		1137						
<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>
AAO	433347.49N/0721655.28W	1549	50	20	2C	250				SA-60	1740

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

OSICE

TO

ZIECH

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30-1.00							1490				
<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>
							ASC				4000
AAO	434741.80N/0722054.00W	2073	50	20	2C	1000					3100
TERRAIN	434745.26N/0722053.01W	1799 (1800)								AS1500	3300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED

MSA

CENTER

OSICE

RADIUS

25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	AAO	433631.00N/0724919.40W	286	22.7	4435	1000	3	6A	1000			5500

MSA REMARKS:



NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZBW ARTCC, LEB TOWER

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ASOS	LEB	24	LEB	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

BACKUP ALTIMETER NOT REQUIRED - AIRPORT HAS REDUNDANT ALTIMETER SOURCES.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>	
RW07 - REIL (PCL), MIRL (PCL), PAPI-4L (PCL)	NPI-G		
RW25 - REIL (PCL), MIRL (PCL), PAPI-4R (PCL)	NPI-G		
RW18 - REIL, HIRL (PCL)	PIR-G		
RW36 - HIRL (PCL), PAPI-4L (PCL)	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>	<u>TCH</u>
					3.75	34.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☐	3000FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	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

FINAL TYPE	LNAV
34:1	
784 TREE (33-021977) 433616.14N/0721813.42W (73.31)	782 TREE (33-021952) 433616.02N/0721806.74W (67.95)
757 TREE (33-021950) 433622.80N/0721759.39W (59.39)	962 TREE (33-021981) 433518.06N/0721721.93W (58.94)
764 TREE (33-021951) 433619.62N/0721802.81W (58.67)	758 GRD (KLEB0057) 433619.81N/0721809.56W (56.26)
746 TREE (33-021949) 433623.54N/0721756.84W (49.40)	931 TREE (33-021980) 433522.42N/0721725.03W (42.03)



<u>AIRPORT ID</u> LEB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>AMDT NO.</u> ORIG-E	<u>CITY</u> LEBANON	<u>STATE</u> NH	<u>AIRPORT ELEVATION</u> 603	<u>FACILITY</u> RNAV
<u>PENETRATIONS REMARKS:</u>						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - TACR PROJECT.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FT VEGEATATION USED PER FPT.

LPV AND LNAV/VNAV NOT DEVELOPED - OFFSET APPROACH AND SURVEY TYPE.

FLIGHT INSPECTION RESULTS DO NOT WARRANT A VDA. PROCEDURE DESIGN UTILIZES FINAL ANGLE/TCH OF 3.16/55.

FINAL COURSE OFFSET 15 DEGREES DUE TO HIGHT TERRAIN EAST OF FINAL AND MAP AT 3000 FROM RW36 TO ELIMINATE MISSED APPROACH PENETRATIONS.

TURN AT INTERMEDIATE FIX USED TO AVOID OBSTACLES.

COMPUTED DESCENT ANGLE 3.16/TCH 55 REMOVED PER FLIGHT INSPECTION.

20:1 PENETRATIONS REMOVED PER NOTAM 1507241903-PERM.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1549 AAO 433347N/0721655W.

<u>AIRPORT ID</u> LEB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>AMDT NO.</u> ORIG-E	<u>CITY</u> LEBANON	<u>STATE</u> NH	<u>AIRPORT ELEVATION</u> 603	<u>FACILITY</u> RNAV
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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	THLD	TO 1000FT POINT	4.78
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.88
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	002.98
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1300
DISTANCE FROM	THLD	TO 1500FT POINT	5.30
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	019.97
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1600

THRESHOLD COORDINATES (IF STR-IN) 433655.28N/0721811.78W

ARP COORDINATES 433734.00N/0721815.10W

RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 36 DISTANCE 0.65 NM

FAF COORDINATES 433108.68N/0721826.01W

FIX NAME COORDINATES

REMARKS

FINAL APPROACH COURSE OFFSET 15.00 DEGREES.
NO ADDITIONAL AIRSPACE REQUIRED.

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
CASIMIR L. TABAKA (ROBERT A. SWINSON)	AJV-A432	01/14/2025	AERONAUTICAL INFORMATION SPECIALIST

