

**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> M54	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 1	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> LEBANON	<u>STATE</u> TN
<u>AIRPORT ELEVATION</u> 588	<u>TDZE</u> 588	<u>SUPERSEDED</u> RNAV (GPS) RWY 1	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 06/17/2021
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 2W
				<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>
BNA VORTAC		OYOTU		TF	FB	1.00	125.68	13.98	3000
HARME		UROGE		TF	FB	1.00	207.41	22.61	3000
OYOTU	IAF	JOGUB	NOPT	TF	FB	1.00	098.49	5.00	3000
UROGE	IAF	JOGUB	NOPT	TF	FB	1.00	278.61	5.00	3000
JOGUB	IF/IAF	WEPKA		TF	FB	1.00	008.55	3.10	2700
WEPKA		KOGCE		TF	FB	1.00	008.56	3.00	2300
KOGCE	FAF	PIDUE/3.00 NM TO RW01		TF	FB	0.30	008.56	2.17	
PIDUE/3.00 NM TO RW01		RW01	MAP	TF	FO	0.30	008.56	3.00	
RW01	MAP	988 MSL		CA			008.56		
988 MSL		LATGE		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW01

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT LATGE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD S JOGUB, RT, 008.55 INBOUND, 3000 IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	008.56	FAF:	KOGCE	DIST FAF TO MAP:	5.17	DIST FAF TO THLD:	5.17							
4.	MIN ALT: JOGUB 3000, WEPKA 2700, KOGCE 2300, PIDUE/3.00 NM TO RW01 1580														
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		500 HAT:	1.44	GS ANT:				
6.	MIN GP INCPT:	2300	GP ALT AT PFAF:	KOGCE 2300					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	45.0							
8.	MSA FROM: RW01 3400														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING XNX ALTIMETER SETTING.
CHART NOTE: RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: CIRCLING NA TO RWYS 4 AND 22.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE XNX ALTIMETER SETTING: INCREASE LPV DA TO 1121 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1433 FEET; INCREASE ALL MDAS 40 FEET AND CIRCLING CAT C VISIBILITY 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 2.48 NM TO RW01
HOLD N, LT, 188.57 INBOUND.
CHART FAS OBST: 1139 TREE 360850N/0861945W.
WAAS CHANNEL # 65809
REFERENCE PATH ID: W01A
LTP HAE: 149.4 M

MINIMUMS:

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

ALTERNATE: NA ☒

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	1088	1 3/8	500	1088	1 3/8	500	1088	1 3/8	500	1088	1 3/8	500			
LNAV/VNAV DA	1400	2 1/2	812	1400	2 1/2	812	1400	2 1/2	812	1400	2 1/2	812			
LNAV MDA	1400	1	812	1400	1 1/4	812	1400	2 1/2	812	1400	2 1/2	812			
CIRCLING	1400	1 1/4	812	1400	1 1/4	812	1440	2 1/2	852	1520	3	932			



CHANGES - REASONS

1. INCORPORATED CHANGES FROM ORIG-A INTO FORM - PER 8260.19J, PARA 8-3-4 C(3).
2. TERMINAL ROUTES: UPDATED RNP VALUE FROM "BNA VORTAC TO OYOTU" AND FROM "HARME TO UROGE" FROM "2" TO "1" - PER 8260.58C, TABLE 1-2-1.
3. TERMINAL ROUTES: UPDATED RNP VALUE FROM "JOGUB TO WEPKA" AND FROM "WEPKA TO KOGCE" FROM "0.50" TO "1.00" - PER 8260.58C, TABLE 1-2-1.
4. TERMINAL ROUTES: UPDATED KOGCE TO PIDUE/3.00 NM TO RW01 DISTANCE FROM "2.10 TO 2.17" - PREVIOUS DOCUMENTATION ERROR.
5. TERMINAL ROUTES: ADDED CA LEG "988 MSL" - PER 8260.58C, PARA 3-5-2 B.
6. PROFILE LINE 2: ADDED "MAX 6000" - PER 8260.19J, PARA 8-6-7 B(2).
7. PROFILE LINE 4: DELETED ASTERISK (*) - NO LONGER REQUIRED.
8. PROFILE LINE 5: UPDATED "500 HAT: 1.44 NM" - MOVED FROM ADDITIONAL FLIGHT DATA PER 8260.19J, PARA 8-6-7 E(3).
9. PROFILE LINE 6: UPDATED GP ALT AT PFAF FROM "KOGCE" TO "KOGCE 2300" - IAW 8260.19J, PARA 8-6-7 F(4).
10. PROFILE LINE 7: ADDED 20:1 "IS CLEAR" - NO PENETRATION EXISTS.
11. PBN REQUIREMENTS NOTE: CHANGED AND MOVED "DME/DME RNP-0.3 NA" FROM NOTES TO "RNP APCH – GPS" - PER 8260.19J, PARA 8-6-8 D(5)(A)1.
12. CHART NOTE: DELETED "*LNAV ONLY" - NO LONGER REQUIRED.
13. CHART NOTE: UPDATED FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C (4°F) OR ABOVE 47°C (116°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C - PER 8260.19J, PARA 8-6-10 R.
14. CHART NOTE: UPDATED FROM "VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - PER 8260.19J 8-6-12 K(2).
15. CHART NOTE: UPDATED FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NASHVILLE INTL ALTIMETER SETTING: INCREASE LPV DA TO 1131 AND ALL CATS VISIBILITY 1/4 SM; INCREASE ALL MDA 60 FEET AND CIRCLING CAT C VISIBILITY 1/4 SM" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE XNX ALTIMETER SETTING: INCREASE LPV DA TO 1121 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1433 FEET; INCREASE ALL MDAS 40 FEET AND CIRCLING CAT C VISIBILITY 1/4 SM" - PER 8260.19J, PARA 8-6-12 N(1)(A)/USING XNX AS NEW BACKUP ALTIMETER.
16. CHART NOTE: UPDATED FROM "LNAV/VNAV NA WHEN USING BNA ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING XNX ALTIMETER SETTING - PER 8260.19J 8-6-10 E(8)/USING XNX AS NEW BACKUP ALTIMETER.
17. CHART NOTE: UPDATED FROM "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - PER 8260.19J 8-6-10 M(1).
18. CHART NOTE: DELETED "CHART PLANVIEW AND PROFILE NOTE: FOR LNAV/VNAV FLY VISUAL TO AIRPORT, 009 DEGREES 3.2 MILES" - NO LONGER REQUIRED, LOWERED LNAV/VNAV TO MATCH LNAV MINIMUMS PER 8260.58C PARA 3-3-5.
19. CHART NOTE: ADDED "CIRCLING NA TO RWYS 4 AND 22" - TURF RUNWAYS ARE NOT RAPT APPROVED.
20. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 2.48 NM TO RW01" - PER 8260.19J, PARA 8-6-11 M.
21. MINIMUMS: UPDATE LPV VISIBILITY ALL CATS FROM "1 3/4" TO "1 3/8" - PER 8260.3F, PARA 3-3-2 A.
22. MINIMUMS: UPDATE LNAV/VNAV DA/HAT AND VIS ALL CATS FROM "1663/1075, 2 AND 3" TO "1400/812 AND 2 1/2" - PER 8260.58C PARA 3-3-5/8260.3F, TABLE 3-3-1.
23. MINIMUMS: UPDATE LNAV CAT D VISIBILITY FROM "2 3/4" TO "2 1/2" - PER 8260.3F, TABLE 3-3-1.

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER:

BNA APP CON, AMGR, ZME

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

Digitally signed by

ROBERT G HAMILTON

May 09, 2025

OFFICE

AJV-A433

DATE

04/29/2025

DEVELOPED BY

ROBERT G HAMILTON (KAMARUDINI R. RAIMI)

Digitally signed by

ROBERT G HAMILTON

May 09, 2025

OFFICE

AJV-A433

DATE

APPROVED BY

ROBERT G HAMILTON

Digitally signed by

ROBERT G HAMILTON

May 09, 2025

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	M54
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	361105.0600N
LTP/FTP LONGITUDE	0861902.1490W
LTP/FTP ELLIPSOIDAL HEIGHT	+01494
FPAP LATITUDE	361233.7000N
FPAP LONGITUDE	0861849.5500W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1344
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	2103CD11

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01785
FPAP ORTHOMETRIC HEIGHT	+01785



**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>
M54	RNAV (GPS) RWY 1	ORIG-B	LEBANON	TN	588	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM BNA VORTAC **TO** OYOTU

RNP 1.00 **DISTANCE** 13.98 **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>
TOWER (47-000757)	360552.00N/0864532.00W	1035	500	50	5D	1000				AT965	3000
TERRAIN	360233.00N/0863657.00W	771 (800)								AS1500	2300

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM HARME **TO** UROGE

RNP 1.00 **DISTANCE** 22.61 **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	360340.70N/0861128.50W	1548	500	3	5A	1000				AT452	3000
TERRAIN	360340.70N/0861128.50W	1348 (1300)								AS1500	2800

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
34
CHECKED

INITIAL

FROM

OYOTU

TO

JOGUB

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	5.00										
<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	355906.00N/0861857.00W	1136	164	98	4E	1000				AT864	3000
TERRAIN	365906.00N/0861857.00W	936 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

UROGE

TO

JOGUB

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	5.00										
<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	355909.20N/0861557.90W	1402	500	3	5A	1000				AT598	3000
TERRAIN	355909.20N/0861557.90W	1202 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

JOGUB (IF/IAF)

TO

WEPKA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	3.10										
<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	355909.20N/0861557.90W	1402	500	3	5A	500					2000
TERRAIN	355909.20N/0861557.90W	1202 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

WEPKA

TO

KOGCE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	3.00										
<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	360533.00N/0861839.00W	1044	164	98	4E	500				AC98 AT658	2300
TERRAIN	360533.00N/0861836.00W	844 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

KOGCE

TO

RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	5.17		DA	500	

<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	360959.00N/0861905.00W	789	50	20	2C		23.4:1			AC20	1088

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

KOGCE

TO

RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	5.17		DA	812	

<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	360850.00N/0861945.00W	1139	50	20	2C		34:1			AC20	1400

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: LNAV

FROM

KOGCE

TO

PIDUE/3.00 NM TO RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.17										
<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	360700.25N/0861814.05W	1273	50	20	2C	250				SA-54 XP111	1580

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP-111 - CONTAINS RA ADJUSTMENT OF 33 FEET AND ADJUSTMENT OF 78 FEET TO ALLOW FOR A MORE STABILIZED DESCENT

FINAL: LNAV STEPDOWN

FROM

PIDUE/3.00 NM TO RW01

TO

RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	3.00		RW01		812						
<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	360850.00N/0861945.00W	1139	50	20	2C	250					1400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

JOGUB

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-5	<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>
AAO	355909.20N/0861557.90W	1402	500	3	5A	1000				AT598	3000
TERRAIN	365909.20N/0861557.90W	1202 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LPV

FROM

DA

TO

LATGE

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 789			
<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				3000
AAO	360724.00N/0861724.00W	1175	164	98	4E	1000					2200
TERRAIN	360724.00N/0861724.00W	975 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LNAV/VNAV

FROM

DA

TO

LATGE

RNP 0.30-1.00	DISTANCE	PAT	MAP		HAT		HMAS 1239				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
AAO	360724.00N/0861724.00W	1175	164	98	4E	1000					2200
TERRAIN	360724.00N/0861724.00W	975 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW01

TO

LATGE

RNP 0.30-1.00	DISTANCE	PAT	MAP		HAT		HMAS 1300				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
AAO	360724.00N/0861724.00W	1175	164	98	4E	1000					2200
TERRAIN	360724.00N/0861724.00W	975 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID

M54

PROCEDURE NAME

RNAV (GPS) RWY 1

AMDT NO.

ORIG-B

CITY

LEBANON

STATE

TN

AIRPORT ELEVATION

588

FACILITY

RNAV

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											
TREE	360959.00N/0861905.00W	1.30	812	789	50	20	2C	300		SI	1400
CATEGORY B											
TREE	360925.00N/0861945.00W	1.83	812	889	50	20	2C	300		SI	1400
CATEGORY C											
TREE	360850.00N/0861945.00W	2.87	852	1139	50	20	2C	300			1440
CATEGORY D											
TOWER (47-000939)	360913.00N/0862246.00W	3.75	932	1168	500	50	5D	300		AC50	1520

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW01	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (47-000753)	355158.00N/0855829.00W	141	25.3	2349	20	10	1B	1000			3400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

BNA APP CON, BNA FSS, ZME ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3	M54	24	M54	0.10	N	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
AWOS-3	XNX	24	XNX	11.94	Y	33

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
M54: 588.0, XNX: 551.0.
RA = 32.8

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW04		BSC-G	
RW22		BSC-G	
RW01 - REIL, MIRL, PAPI-2L		NPI-G	
RW19 - REIL, MIRL, PAPI-2L		NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	585.7	45.0			3.00	20.5

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	400
ON CENTERLINE	☒	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-16C	+54C	-16C	+13.83C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 975 HIGH TEMP 1270.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LNAV/VNAV AND LNAV
34:1	
1096 TREE (47-144033) 360849.5700N/0861945.0800W (104)	1081 TREE (47-143918) 360853.0600N/0861945.2400W (99.27)



AIRPORT ID		PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
M54		RNAV (GPS) RWY 1	ORIG-B	LEBANON	TN	588	RNAV
1081 TREE (47-144492) 360848.1600N/0861940.4900W (86.1)				1084 TRANSMISSION_LINE (47-021574) 360844.6400N/0861942.8100W (78.06)			
1060 TREE (47-144068) 360850.8200N/0861948.5400W (70.74)				1042 TREE (47-144174) 360856.2600N/0861943.3200W (70.26)			
1051 TREE (47-144193) 360852.8100N/0861940.0200W (69.97)				1023 TREE (47-144481) 360900.2000N/0861944.9100W (62.46)			
1043 TREE (47-144778) 360850.0200N/0861937.5800W (54.4)				1043 TREE (47-144046) 360847.2800N/0861947.0800W (43.69)			
949 TREE (47-144359) 360916.4300N/0861938.2600W (38.25)				679 TREE (47-144713) 361042.8700N/0861910.9500W (31.19)			
685 TREE (47-143996) 361038.9100N/0861859.1500W (28.74)				947 TREE (47-144112) 360912.6500N/0861938.4900W (25.02)			
1029 TRANSMISSION_LINE (47-138291) 360844.3600N/0861934.4800W (24.53)				1020 TREE (47-144887) 360846.3400N/0861934.9500W (21.25)			
1026 TRANSMISSION_LINE (47-137730) 360845.4600N/0861949.0400W (20.77)				1031 TREE (47-143994) 360842.6900N/0861940.5300W (19.93)			
672 TREE (47-144734) 361040.2400N/0861859.2900W (19.63)				671 TREE (47-144750) 361041.1700N/0861911.1100W (18.12)			
660 TREE (47-144314) 361041.9600N/0861910.1800W (9.71)				969 TREE (47-144825) 360900.1600N/0861939.9500W (9.71)			
673 TREE (47-144315) 361037.3100N/0861908.8100W (9.35)				672 TREE (47-143943) 361036.7500N/0861859.3100W (9.32)			
672 TREE (47-144474) 361037.6800N/0861910.0500W (9.1)				943 TREE (47-144412) 360908.0200N/0861939.5000W (7.06)			
1021 TREE (47-144663) 360842.0500N/0861945.8600W (6.57)				666 TREE (47-144106) 361038.7900N/0861910.1100W (6.36)			
955 TREE (47-144437) 360903.5800N/0861940.0900W (5.77)				607 TRAVERSE WAY (47-025351) 361058.1000N/0861905.6500W (5.65)			
668 TREE (47-144415) 361036.8900N/0861900.5100W (5.4)				609 SIGN (47-138540) 361056.9800N/0861903.4200W (4.96)			
666 TREE (47-144755) 361037.8900N/0861906.1500W (4.8)				605 TRAVERSE WAY (47-138309) 361058.3700N/0861905.7400W (4.42)			
619 TREE (47-144137) 361052.7300N/0861859.9200W (3.36)				603 TRAVERSE WAY (47-137436) 361058.3400N/0861904.4400W (2.69)			
667 TREE (47-144669) 361036.8400N/0861907.3800W (2.36)				676 TREE (47-144248) 361033.7100N/0861906.9800W (2.22)			
664 TREE (47-144454) 361037.8200N/0861907.7600W (2.15)				605 TRAVERSE WAY (47-138176) 361057.5500N/0861905.9300W (1.95)			
992 ANTENNA (47-137868) 360845.9800N/0861900.4100W (1.72)				599 FENCE (47-138658) 361059.4400N/0861905.5200W (1.65)			
970 TREE (47-144805) 360856.9100N/0861939.2100W (1.31)				604 TRAVERSE WAY (47-138118) 361057.5100N/0861904.5600W (1.21)			
609 TRAVERSE WAY (47-137440) 361056.0100N/0861907.0400W (1.09)				601 TRAVERSE WAY (47-138498) 361058.3000N/0861903.1000W (0.94)			
679 TREE (47-144529) 361031.9500N/0861904.4600W (0.71)				660 TREE (47-144636) 361038.3700N/0861904.5300W (0.66)			
657 TREE (47-144007) 361039.9100N/0861910.1800W (0.65)				678 TREE (47-144546) 361032.2700N/0861905.5900W (0.35)			
600 TRAVERSE WAY (47-138696) 361058.2700N/0861901.8400W (0.2)							
FINAL TYPE	LPV						
34:1							
679 TREE (47-144713) 361042.8700N/0861910.9500W (31.19)				685 TREE (47-143996) 361038.9100N/0861859.1500W (28.74)			
672 TREE (47-144734) 361040.2400N/0861859.2900W (19.63)				671 TREE (47-144750) 361041.1700N/0861911.1100W (18.12)			
660 TREE (47-144314) 361041.9600N/0861910.1800W (9.71)				673 TREE (47-144315) 361037.3100N/0861908.8100W (9.35)			
672 TREE (47-143943) 361036.7500N/0861859.3100W (9.32)				672 TREE (47-144474) 361037.6800N/0861910.0500W (9.1)			
666 TREE (47-144106) 361038.7900N/0861910.1100W (6.36)				607 TRAVERSE WAY (47-025351) 361058.1000N/0861905.6500W (5.65)			
668 TREE (47-144415) 361036.8900N/0861900.5100W (5.4)				609 SIGN (47-138540) 361056.9800N/0861903.4200W (4.96)			
666 TREE (47-144755) 361037.8900N/0861906.1500W (4.8)				605 TRAVERSE WAY (47-138309) 361058.3700N/0861905.7400W (4.42)			
619 TREE (47-144137) 361052.7300N/0861859.9200W (3.36)				603 TRAVERSE WAY (47-137436) 361058.3400N/0861904.4400W (2.69)			

QUALITY

34

CH

QUALITY
34
CHECKED

<u>AIRPORT ID</u> M54	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 1	<u>AMDT NO.</u> ORIG-B	<u>CITY</u> LEBANON	<u>STATE</u> TN	<u>AIRPORT ELEVATION</u> 588	<u>FACILITY</u> RNAV
667 TREE (47-144669) 361036.8400N/0861907.3800W (2.36)			676 TREE (47-144248) 361033.7100N/0861906.9800W (2.22)			
664 TREE (47-144454) 361037.8200N/0861907.7600W (2.15)			605 TRAVERSE WAY (47-138176) 361057.5500N/0861905.9300W (1.95)			
599 FENCE (47-138658) 361059.4400N/0861905.5200W (1.65)			604 TRAVERSE WAY (47-138118) 361057.5100N/0861904.5600W (1.21)			
609 TRAVERSE WAY (47-137440) 361056.0100N/0861907.0400W (1.09)			601 TRAVERSE WAY (47-138498) 361058.3000N/0861903.1000W (0.94)			
679 TREE (47-144529) 361031.9500N/0861904.4600W (0.71)			660 TREE (47-144636) 361038.3700N/0861904.5300W (0.66)			
657 TREE (47-144007) 361039.9100N/0861910.1800W (0.65)			678 TREE (47-144546) 361032.2700N/0861905.5900W (0.35)			
600 TRAVERSE WAY (47-138696) 361058.2700N/0861901.8400W (0.2)						
<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:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100FT AVERAGE VEGETATION HEIGHT USED.

REMOTE SECONDARY ALTIMETER - CHANGED FROM BNA TO XNX.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> M54	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 1	<u>AMDT NO.</u> ORIG-B	<u>CITY</u> LEBANON	<u>STATE</u> TN	<u>AIRPORT ELEVATION</u> 588	<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	4.3
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.89
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	006.56
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1000
DISTANCE FROM	THLD	TO 1500FT POINT	5.87
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	2.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	006.55
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1100

THRESHOLD COORDINATES (IF STR-IN)

361105.06N/0861902.15W

ARP COORDINATES

361125.48N/0861856.49W

RUNWAY APCH END AND DIST FURTHEST FROM ARP

RUNWAY 1 DISTANCE 0.41 NM

FAF COORDINATES

360556.59N/0861945.93W

FIX NAME COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

THLD DISPLACED 400FT, ACTUAL COORDINATES: 361101.15N/0861902.69W

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
ROBERT G HAMILTON (KAMARUDINI R. RAIMI)	AJV-A433	04/29/2025	AERONAUTICAL INFORMATION SPECIALIST

