

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> DET	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> DETROIT	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 624	<u>TDZE</u> 624	<u>SUPERSEDED</u> RNAV (GPS) RWY 33	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 5W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 1980
		<u>ACTUAL EFFECTIVE DATE</u> 26 DECEMBER 2024	<u>CANCEL/SUSPEND</u>	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 239/30 CW 058/30	NOPT	OBZOF	IF/IAF	3000
2. 058/30 CW 148/30		FEPNA	IAF	3000
3. 148/30 CW 239/30		DUZKO	IAF	3000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
SWWAN		DUZKO		TF	FB	1.00	164.32	28.15	3000
DELOW		OBZOF		TF	FO	1.00	147.26	17.49	3000
DUZKO	IAF	OBZOF	NOPT	TF	FB	1.00	238.54	7.00	3000
FEPNA	IAF	OBZOF	NOPT	TF	FB	1.00	058.37	7.00	3000
OBZOF	IF/IAF	GOMAC		TF	FB	1.00	328.46	5.94	3000
GOMAC	FAF	NEMKE/2.16 NM TO RW33		TF	FB	0.30	328.39	5.15	
NEMKE/2.16 NM TO RW33		RW33	MAP	TF	FO	0.30	328.39	2.16	
RW33	MAP	874 MSL		CA			328.39		
874 MSL		JITSI		DF	FB	1.00			
JITSI		SWWAN		TF	FO	1.00	023.93	17.84	4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT JITSI AND ON TRACK 023.93 TO SWWAN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD SE OBZOF, RT, 328.46 INBOUND, 3000 FT. IN LIEU OF PT (IF/IAF), MAX 5000.														
3.	FAC:	328.39	FAF:	GOMAC	DIST FAF TO MAP:	7.31	DIST FAF TO THLD:	7.31							
4.	MIN ALT:	OBZOF 3000, GOMAC 3000, NEMKE/2.16 NM TO RW33 1360													
5.	DIST TO THLD FROM FAF:	7.31	MM:		IM:		150 HAT:		250 HAT:	0.63	GS ANT:				
6.	MIN GP INCPT:	3000	GP ALT AT PFAF:	GOMAC 3000			OM:		MM:		IM:				
7.	GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	48.7							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING DTW ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 270.03 INBOUND.
CHART FAS OBST: 781 TOWER (26-001924) 422323N/0825906W.
CHART VDP AT 1.15 NM TO RW33.
WAAS CHANNEL # 58211
REFERENCE PATH ID: W33A
CHART CIRCLING ICON.
LTP HAE: 155.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4, 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	874	3/4	250	874	3/4	250	874	3/4	250	874	3/4	250			
LNAV/VNAV DA	1039	1 1/8	415	1039	1 1/8	415	1039	1 1/8	415	1039	1 1/8	415			
LNAV MDA	1040	1	416	1040	1	416	1040	1 1/8	416	1040	1 1/8	416			
CIRCLING	1180	1	556	1180	1	556	1320	2	696	1500	2 3/4	876			



CHANGES - REASONS

1. CHANGED AIRPORT NAME TO AIRPORT ID - 8260.19J 8-6-2
2. CHANGED AIRPORT ELEVATION AND TDZE FROM 626 TO 624 - ARP MOVED DUE TO RWY 07/25 CLOSURE
3. ADDED TAA – PER FPT/ATC REQUEST
4. CHANGED SWWAN-DUZCO FEEDER RNP FROM 2.00 TO 1.00, COURSE FROM 168.16 TO 164.32, DISTANCE FROM 28.77 TO 28.15 – 8260.58C TABLE 1-2-1/DUZCO MOVED 2.0 NM NE
5. CHANGED DELOW-OBZOF FEEDER RNP FROM 2.00 TO 1.00 – 8260.58C TABLE 1-2-1
6. CHANGED DUZCO-OBZOF COURSE FROM 238.51 TO 238.54, DISTANCE FROM 5.00 TO 7.00 – DUZCO MOVED 2.0 NM NE
7. CHANGED FEPNA-OBZOF COURSE FROM 058.39 TO 058.37, DISTANCE FROM 5.00 TO 7.00 – FEPNA MOVED 2.0 NM SW
8. CHANGED INTERMEDIATE SEGMENT FROM OBZOF-CUPUD TO OBZOF-GOMAC, COURSE FROM 328.45 TO 328.46, DISTANCE FROM 6.10 TO 5.94 – FAF CHANGED FROM CUPUD TO GOMAC TO MATCH ILS
9. CHANGED FINAL SEGMENT FROM CUPUD-NEMKE TO GOMAC-NEMKE, DISTANCE FROM 4.95 TO 5.15 – FAF CHANGED TO MATCH ILS, NEMKE MOVED FOR NEW ALTITUDE
10. CHANGED FINAL STEPDOWN SEGMENT NEMKE-RW33 DISTANCE FROM 2.20 TO 2.16 – NEMKE MOVED 0.04 NM FOR NEW ALTITUDE
11. CHANGED MISSED APPROACH CA LEG ALTITUDE FROM 936 TO 874 – NEW LOWER LPV MINS
12. CHANGED OBZOF HILPT INBOUND COURSE FROM 328.45 TO 328.46 – ALIGN WITH INTERMEDIATE SEGMENT
13. CHANGED PROFILE LINE 3 FAF FROM CUPUD TO GOMAC, DIST FAF TO MAP AND DIST FAF TO THLD FROM 7.15 TO 7.31 – NEW FAF TO MATCH ILS
14. CHANGED PROFILE LINE 4 MIN ALT FROM “OBZOF 3000, CUPUD 3000, NEMKE/2.20 NM TO RW33 1380*” TO “OBZOF 3000, GOMAC 3000, NEMKE/2.16 NM TO RW33 1360” – NEW FAF, NEW STEPDOWN ALTITUDE, ASTERISK NOT REQUIRED IN CURRENT CRITERIA
15. ADDED PROFILE LINE 5 DIST TO THLD FROM PFAF FROM 7.31, 250 HAT: 0.63 – 8260.19J 8-6-7.E
16. CHANGED PROFILE LINE 6 GP ALT AT PFAF FROM CUPUD 3000 TO GOMAC 3000 – NEW PFAF
17. CHANGED PROFILE LINE 7 TCH FROM 51.3 TO 48.7 – UPDATED TO MATCH ILS TCH
18. REMOVED PROFILE LINE 8 MSA INFORMATION – ADDED TAA
19. REMOVED CHART NOTE: CIRCLING RWY 7, 25 NA AT NIGHT – RWY 7/25 CLOSED
20. REMOVED FAHRENHEIT TEMPS FROM UNCOMPENSATED BARO-VNAV NOTE AND CHANGED LOW TEMP FROM -16°C TO -17°C – FAHRENHEIT TEMPS NOT REQUIRED IN CURRENT CRITERIA/NEW TEMPERATURE STUDY DATA
21. ADDED CHART NOTE: BARO-VNAV AND VDP NA WHEN USING DTW ALTIMETER SETTING – 8260.19J 8-6-10.E.(8-9)
22. REMOVED CHART NOTE: DME/DME RNP-0.3 NA – NOT REQUIRED IN CURRENT CRITERIA
23. CHANGED FAS OBST FROM 791 STACK TO 781 TOWER – ADDED STEPDOWN SEGMENT
24. CHANGED VDP FROM 1.33 NM TO RW33 TO 1.15 NM TO RW33 – NEW LNAV MDA
25. LOWERED LPV DA/HAT FROM 936/310 TO 874/250 – NEW MINS BASED ON UPDATED OBSTACLE SURVEY DATA
26. LOWERED LNAV/VNAV VISIBILITY FROM 1 1/2 TO 1 1/8 – 8260.3E TABLE 3-3-1
27. LOWERED LNAV MDA/HAT FROM 1100/474 TO 1040/416, VISIBILITY CAT C FROM 1 1/4 TO 1 1/8, AND VISIBILITY CAT D FROM 1 1/2 TO 1 1/8 - NEW MINS BASED ON UPDATED OBSTACLE SURVEY DATA
28. INCREASED ALL CIRCLING HAA BY 2 FEET – AIRPORT ELEV CHANGE
29. FAS DATA CHANGES: LTP/FTP COORDINATES FROM 422424.3430N/0830017.9300W TO 422424.3400N/0830017.8835W, LTP/FTP ELLIPSOIDAL HEIGHT FROM +01559 TO +01556, FPAP COORDINATES FROM 422535.8275N/0830129.7785W TO 422535.8220N/0830129.7365W, TCH FROM 51.3 TO 48.7, CRC REMAINDER FROM 3F00DDA6 TO 77BEE1E9, LTP/FPAP OTHOMETRIC HEIGHT FROM 1905 TO 1902

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: DETROIT APP CON, DETROIT ATCT, AMGR, ZOB

FLIGHT CHECKED BY

MICHAEL A GREENWOOD

Digitally signed by

CASIMIR L TABAKA

Oct 21, 2024

OFFICE

AJF

DATE

10/16/2024

DEVELOPED BY

JON NEIDIGH

Digitally signed by

JON M NEIDIGH

Jul 02, 2024

OFFICE

AJV-A432

DATE

05/08/2024

APPROVED BY

CASIMIR L. TABAKA

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CASIMIR L TABAKA

Oct 21, 2024

OFFICE

AJV-A432

DATE

TITLE
MANAGER



AIRPORT ID
DET

PROCEDURE NAME
RNAV (GPS) RWY 33

ORIGINAL/AMENDMENT
1

CITY
DETROIT

STATE
MI

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDET
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	422424.3400N
LTP/FTP LONGITUDE	0830017.8835W
LTP/FTP ELLIPSOIDAL HEIGHT	+01556
FPAP LATITUDE	422535.8220N
FPAP LONGITUDE	0830129.7365W
THRESHOLD CROSSING HEIGHT (TCH)	00048.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1200
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	77BEE1E9
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01902
FPAP ORTHOMETRIC HEIGHT	+01902

