

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> YNG	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> YOUNGSTOWN/WARREN	<u>STATE</u> OH
<u>AIRPORT ELEVATION</u> 1192	<u>TDZE</u> 1186	<u>SUPERSEDED</u> RNAV (GPS) RWY 32	<u>DATED</u> 03/26/2020	<u>MAG VAR</u> 8W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>REQUIRED EFFECTIVE DATE</u> 10/31/2024	<u>EPOCH YEAR</u> 1990
		<u>ACTUAL EFFECTIVE DATE</u> 31 OCTOBER 2024	<u>CANCEL/SUSPEND</u>	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 233/30 CW 053/30	NOPT	233/5 CW 053/5		4000
2. 233/5 CW 053/5		UNERE	IF/IAF	2900
3. 053/30 CW 233/30		053/5 CW 233/5		4000
4. 053/5 CW 233/5		UNERE	IF/IAF	2900

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
UNERE	IF/IAF	WHYSU		TF	FB	1.00	323.09	6.03	2800
WHYSU	FAF	SUYOT/2.57 NM TO RW32		TF	FB	0.30	323.02	2.39	
SUYOT/2.57 NM TO RW32		RW32	MAP	TF	FO	0.30	323.02	2.57	
RW32	MAP	1436 MSL		CA			323.02		
1436 MSL		OTNOE		DF	FO	1.00			2900

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW32

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2900 DIRECT OTNOE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD SE UNERE, RT, 323.09 INBOUND, 2900 FT. IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	323.02	FAF:	WHYSU	DIST FAF TO MAP:	4.96	DIST FAF TO THLD:	4.96							
4.	MIN ALT:	UNERE 2900, WHYSU 2800, SUYOT/2.57 NM TO RW32 2040													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		250 HAT:	0.68	GS ANT:				
6.	MIN GP INCPT:	2800	GP ALT AT PFAF:	WHYSU 2800			OM:				MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	34.5							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 5 AND 23 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 142.83 INBOUND.
CHART FAS OBST: 1330 TOWER (39-004029) 411421N/0803937W.
CHART VDP AT 1.12 NM TO RW32.
WAAS CHANNEL # 97406
REFERENCE PATH ID: W32A
CHART CIRCLING ICON.
LTP HAE: 327.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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	1436	2400	250	1436	2400	250	1436	2400	250	1436	2400	250			
LNAV/VNAV DA	1511	2600	325	1511	2600	325	1511	2600	325	1511	2600	325			
LNAV MDA	1580	2400	394	1580	2400	394	1580	3500	394	1580	3500	394			
CIRCLING	1640	1	448	1660	1	468	1740	1 1/2	548	1760	2	568			



CHANGES - REASONS

1. DECREASED LPV DA/HAT FROM 1458/272 TO 1436/250. – NEW LPV CONTROLLING OBSTACLE.
2. DECREASED LNAV/VNAV MDA/HAT FROM 1639/453 TO 1511/325; VISIBILITY FROM RVR 6000 TO RVR 2600. – NEW LNAV/VNAV CONTROLLING OBSTACLE.
3. REMOVED MSA; ADDED TAA. – PER ATC/FPT REQUEST.
4. REMOVED FEEDER FROM YNG VORTAC. – YNG VORTAC DECOMMISSIONING; ATC REQUEST.
5. UPDATED TERMINAL ROUTES: UNERE – WHYSU COURSE/DISTANCE FROM 323.08/6.10 TO 323.09/6.03. – FAF WHYSU MOVED TO ACCOMMODATE GPA/TCH.
6. UPDATED TERMINAL ROUTES: WHYSU– TO SUYTO DISTANCE FROM 2.30 TO 2.39. - FAF WHYSU MOVED TO ACCOMMODATE GPA/TCH.
7. UPDATED TERMINAL ROUTES: SUYTO – TO RW32 COURSE/DISTANCE FROM 323.00/2.60 TO 323.02/2.57. - FAF WHYSU MOVED TO ACCOMMODATE GPA/TCH.
8. UPDATED TERMINAL ROUTES: MISSED APPROACH CA LEG FROM 1457 MSL TO 1436 MSL; COURSE FROM 323.00 TO 323.02. -NEW EVALUATION COMPLETED; UPDATED FINAL COURSE.
9. LINE 2: UPDATED HOLD-IN-LIEU INBOUND COURSE FROM 323.08 TO 323.09. - TO MATCH INTERMEDIATE INBOUND COURSE.
10. LINE 3: UPDATED DISTANCE FAF TO MAP/THLD FROM 4.90 TO 4.96. - FAF WHYSU MOVED TO ACCOMMODATE GPA/TCH.
11. LINE 4: REMOVED *, AND *LNAV ONLY FROM ADDITIONAL FLIGHT DATA. - NO LONGER REQUIRED.
12. LINE 5: ADDED DISTANCE TO THLD FROM 250 HAT: 0.66. REMOVED "DISTANCE TO THLD FROM 272 HAT: 0.75 NM" FROM ADDITIONAL FLIGHT DATA. – LPV MINIMUMS DECREASED; FORMS UPDATED.
13. LINE 7: ADDED 34:1 IS CLEAR; UPDATED TCH FROM 35.3 TO 34.5. – NO 34:1 PENETRATIONS FOUND; TCH DECREASED TO MAINTAIN GPA/TCH IAW 8260.58C.
14. UPDATED PBN REQUIREMENTS NOTE: FROM RNP APCH TO RNP APCH - GPS. - IAW 8260.58C TABLE 1-2-1.
15. REMOVED CHART NOTE: PROCEDURE NA FOR ARRIVALS AT YNG VORTAC VIA AIRWAY RADIALS 106 CW 182. – FEEDER REMOVED.
16. REMOVED CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO RVR 5000 AND LNAV CAT D VISIBILITY TO RVR 6000. – NEW EVALUATION COMPLETED; NO LONGER REQUIRED.
17. UPDATED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA FROM “-17C OR ABOVE 46C” TO “-18C OR ABOVE 54C.” - NEW 5-YEAR WEATHER STUDY COMPLETED.
18. UPDATED CHART NOTE: FROM "CIRCLING RWY 5 NA AT NIGHT" TO "CIRCLING RWY 5 AND 23 NA AT NIGHT." - 20:1 PENETRATIONS FOUND ON RUNWAY 23.
19. ADDITIONAL FLIGHT DATA: DELETED "CHART ASR." - NO LONGER REQUIRED BY CRITERIA.
20. FAS DATA: LTP/FTP LATITUDE/LONGITUDE UPDATED FROM 411519.5300N/0804009.0500W TO 411519.5235N/0804009.0385W. – NEW AIRNAV DATA INCORPORATED.
21. FAS DATA: FPAP LATITUDE/LONGITUDE UPDATED FROM 411622.5800N/0804132.7200W TO 411622.5155N/0804132.6430W. - NEW AIRNAV DATA INCORPORATED.
22. FAS DATA: CRC REMAINDER UPDATED FROM DECB294F TO BC217310. -LTP/FPT/FPAP LATITUDE/LONGITUDE UPDATED.

COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

☐

HAI

☐

NBAA

☒

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

FLIGHT CHECKED BY
GLEN B FREEMAN

Digitally signed by
JOSEPH L ZEDER
Aug 21, 2024

OFFICE
FPO
DATE
09/11/2024

DEVELOPED BY
BARBARA GORMAN (CASIMIR L. TABAKA)

Digitally signed by
JOSEPH L ZEDER
Aug 21, 2024

OFFICE
AJV-A432
DATE
04/03/2024

APPROVED BY
CASIMIR L. TABAKA

Digitally signed by
JOSEPH L ZEDER
Aug 21, 2024

OFFICE
AJV-A430
DATE
TITLE
MANAGER



AIRPORT ID
YNG

PROCEDURE NAME
RNAV (GPS) RWY 32

ORIGINAL/AMENDMENT
1

CITY
YOUNGSTOWN/WARREN

STATE
OH

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KYNG
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	411519.5235N
LTP/FTP LONGITUDE	0804009.0385W
LTP/FTP ELLIPSOIDAL HEIGHT	+03276
FPAP LATITUDE	411622.5155N
FPAP LONGITUDE	0804132.6430W
THRESHOLD CROSSING HEIGHT (TCH)	00034.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 CRC REMAINDER	 BC217310

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03614
FPAP ORTHOMETRIC HEIGHT	+03614

