

**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.

<b>AIRPORT ID</b> ORH	<b>PROCEDURE NAME</b> RNAV (GPS) RWY 29	<b>ORIGINAL/AMENDMENT</b> 3	<b>CITY</b> WORCESTER	<b>STATE</b> MA		
<b>AIRPORT ELEVATION</b> 1009	<b>TDZE</b> 990	<b>SUPERSEDED</b> RNAV (GPS) RWY 29	<b>ORIGINAL/AMENDMENT</b> 2	<b>DATED</b> 08/17/2017	<b>MAG VAR</b> 15W	<b>EPOCH YEAR</b> 1995
<b>FACILITY</b> RNAV	<b>COORDINATES OF FACILITIES</b>	<b>ACTUAL EFFECTIVE DATE</b> 17 APRIL 2025	<b>REQUIRED EFFECTIVE DATE</b> ROUTINE	<b>CANCEL/SUSPEND</b>		

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
WHYBE	IAF	DEWEE		TF	FB	1.00	284.85	8.88	3000
KENZY	IAF	DEWEE		TF	FB	1.00	019.02	6.52	3000
DEWEE	IF	SPAGS		TF	FB	1.00	289.03	5.92	2700
SPAGS	FAF	RW29	MAP	TF	FO	0.30	288.94	5.21	
RW29	MAP	1190 MSL		CA			288.94		
1190 MSL		RILOC		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW29

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 DIRECT RILOC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- PROFILE STARTS AT DEWEE
- FAC: 288.94 FAF: SPAGS DIST FAF TO MAP: 5.21 DIST FAF TO THLD: 5.21
- MIN ALT: DEWEE 3000, SPAGS 2700
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 200 HAT: 0.47 GS ANT: MM: IM:
- MIN GP INCPT: 2700 GP ALT AT PFAF: SPAGS 2700
- GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 53.6
- MSA FROM: RW29 3300

QUALITY  
35  
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WHYBE ON V1 AND T303 EASTBOUND.

ADDITIONAL FLIGHT DATA:

HOLD W, LT, 108.76 INBOUND.  
CHART FAS OBST: 1100 CONTROL\_TOWER (25-021918) 421545N/0715214W.  
CHART VDP AT 1.00 NM TO RW29.  
WAAS CHANNEL # 82299  
REFERENCE PATH ID: W29A  
CHART CIRCLING ICON.  
LTP HAE: 272.5 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C, D 1000-3, 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	1190	5000	200	1190	5000	200	1190	5000	200	1190	5000	200			
LNAV/VNAV DA	1261	5000	271	1261	5000	271	1261	5000	271	1261	5000	271			
LNAV MDA	1360	5500	370	1360	5500	370	1360	5500	370	1360	5500	370			
CIRCLING	1560	1	551	1720	1	711	2000	3	991	2000	3	991			

CHANGES - REASONS

- TERMINAL ROUTES: INITIAL SEGMENT KENZY TO SPAGS - ADDED PER ATC REQUEST TO ACCOMMODATE ARRIVALS FROM THE SOUTH
- MISSED APPROACH: CHANGED FROM CLIMB TO 3000 DIRECT RILOC AND HOLD TO CLIMB TO 3000 DIRECT RILOC AND CONTINUE CLIMB IN HOLD - IAW 8260.3F 16-7-1
- LINE 7: 20:1 CLEAR NOTE ADDED - IAW 8260.19J 8-6-7
- CHART NOTES: BARO-VNAV NOTE CHANGED TO REMOVE FAHRENHEIT VALUES, CHANGED FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C (-4F) OR ABOVE 54°C (130F). TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19°C OR ABOVE 54°C. - NEW HISTORICAL WX DATA
- PBN/EQUIPMENT REQUIREMENT NOTES: RNAV 1-GPS NOTE ADDED - IAW 8260.19J 8-6-8
- DME/DME NOTE REMOVED - NO LONGER REQUIRED IAW 8260.19J 4-5-3D.(1)
- LINE 5: HAT/DISTANCE HAT TO THRESHOLD 200 HAT .47NM ADDED, REMOVED FROM ADDITIONAL FLIGHT DATA - IAW 8260.19J 8-6-7E.
- FAS DATA BLOCK INFO: CRC REMAINDER CHANGED FROM 645A9424 TO CB8090B5 - FPAP LAT/LONG CHANGED FROM 421603.74N/0715353.7W TO 421603.7215N/0715353.6995W.
- ADDITIONAL FLIGHT DATA: REMOVED \* AND ASSOCIATED \*LNAV ONLY NOTE FROM VDP INFO - NO LONGER REQUIRED



COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER: ZBW, BDL APP CON, ORH ATCT, AIRPORT MANAGER

FLIGHT CHECKED BY

GARY BELL

Digitally signed by

ERIC N SUSKI

Feb 26, 2025

OFFICE

AJF

DATE

02/25/2025

DEVELOPED BY

JOHN BORDY (NICHOLAS HEIDERSTADT)

Digitally signed by

ERIC N SUSKI

Feb 26, 2025

OFFICE

AJV-A33

DATE

08/02/2024

APPROVED BY

JOHN BORDY

Digitally signed by

ERIC N SUSKI

Feb 26, 2025

OFFICE

AJV-A33

DATE

02/20/2025

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KORH
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	421557.7510N
LTP/FTP LONGITUDE	0715153.9650W
LTP/FTP ELLIPSOIDAL HEIGHT	+02725
FPAP LATITUDE	421603.7215N
FPAP LONGITUDE	0715353.6995W
THRESHOLD CROSSING HEIGHT (TCH)	00053.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	CB8090B5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+03011
FPAP ORTHOMETRIC HEIGHT	+03011

