

**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> KBOS	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 33L	<u>ORIGINAL/AMENDMENT</u> 2E	<u>CITY</u> BOSTON	<u>STATE</u> MA		
<u>AIRPORT ELEVATION</u> 19	<u>TDZE</u> 16	<u>SUPERSEDED</u> RNAV (GPS) RWY 33L	<u>ORIGINAL/AMENDMENT</u> 2D	<u>DATED</u> 12/30/2021	<u>MAG VAR</u> 15W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 NOVEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES [THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 22-22.](#)

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
BENNN	IF	COHAS		TF	FB	1.00	330.34	5.36	3000
COHAS		NIMOY		TF	FB	1.00	330.28	4.94	1500
NIMOY	FAF	RDUKE/2.00 NM TO RW33L		TF	FB	0.30	330.23	2.48	
RDUKE/2.00 NM TO RW33L		RW33L	MAP	TF	FO	0.30	330.23	2.00	
RW33L	MAP	600 MSL		CA			330.23		600
600 MSL		WAXEN		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3000 DIRECT WAXEN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. PROFILE STARTS AT BENNN

3. FAF: 330.23 FAF: NIMOY DIST FAF TO MAP: 4.48 DIST FAF TO THLD: 4.48

4. MIN ALT: BENNN 4000, COHAS 3000, NIMOY 1500, RDUKE/2.00 NM TO RW33L 700

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 200 HAT: 0.45 GS ANT:

6. MIN GP INCPT: 1500 GP ALT AT PFAF : NIMOY 1500 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 57.0

8. MSA FROM: RW33L 2500

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING NA TO RWY 14.
CHART NOTE: CIRCLING NA FOR CATS C AND D W OF RWYS 4L AND 15R.

ADDITIONAL FLIGHT DATA:

HOLD NE, LT, 208.99 INBOUND.
CHART FAS OBST: 220 VERTICAL_STRUCTURE (25-043482) 422045N/0705724W.
CHART VDP AT 1.12 NM TO RW33L.
WAAS CHANNEL # 69525
REFERENCE PATH ID: W33A
CHART PLANVIEW NOTE: RADAR REQUIRED.
LTP HAE: -22.9 M

MINIMUMS:

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

ALTERNATE: NA ☐ CAT A 1000-2, CAT B 1100-2

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	216	1800	200	216	1800	200	216	1800	200	216	1800	200			
LNAV/VNAV DA	324	2400	308	324	2400	308	324	2400	308	324	2400	308			
LNAV MDA	440	2400	424	440	2400	424	440	4000	424	440	4000	424			
CIRCLING	940	1 1/4	921	1040	1 1/2	1021	620	1 3/4	601	620	2	601			



CHANGES - REASONS

1. CHANGED PROCEDURE NAME FROM RNAV (GPS) RWY 33L TO RNAV (GPS) Z RWY 33L - PER 8260.19I NAMING CONVENTION.
2. REMOVED DME/DME RNP-0.3 NA NOTE, ADDED PBN REQUIREMENTS NOTE - PER 19I.
3. UPDATED BARO-VNAV NOTE TO REMOVE F VALUES - PER 19H.
4. CRC REMAINDER CHANGED FROM E5BBB133TO FCF27897 - PER FPAP COORD UPDATE/ROUTE IDENTIFIER ADDED.
5. INCORPORATED CHANGES FROM PNOTAM AMDT 2D - PER SIAP ALIGNMENT REQUIREMENTS.
6. REMOVED CHART: 215 TANK 421919N/0705755W FROM ADDITIONAL FLIGHT DATA - 7:1 DOES NOT APPLY, OBS LOWER THAN FAS CONTROLLER.

9/27/22. THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 8/12/22.

1. CHANGED LPV CAT D VIS FROM RVR 1600 TO RVR 1800.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☒ **NBAA** ☒ **OTHER:** BOS APP CON, BOS ATCT, ZBW, BOS AMGR

FLIGHT CHECKED BY

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

OFFICE

DATE *Digitally signed by*

ALLAN WILL

Sep 28, 2022

DEVELOPED BY

PHILLIP BRANDENBURG

Digitally signed by

PHILLIP BRANDENBURG

OFFICE

AJV-A423

DATE

07/12/2022

APPROVED BY

MARLON ROBINSON

Sep 27, 2022

Digitally signed by

RAKE MCGRAW

Sep 27, 2022

OFFICE

AJV-A420

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBOS
RUNWAY	RW33L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	422116.7425N
LTP/FTP LONGITUDE	0705929.7095W
LTP/FTP ELLIPSOIDAL HEIGHT	-00229
FPAP LATITUDE	422227.3730N
FPAP LONGITUDE	0710104.4090W
THRESHOLD CROSSING HEIGHT (TCH)	00057.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 CRC REMAINDER	 FCF27897

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00048
FPAP ORTHOMETRIC HEIGHT	+00048

