

**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SUPERSEDED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**

<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>
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	1600	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			

QUALITY  
22  
CHECKED

**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.

**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**

Aug 12, 2022

**DEVELOPED BY**

PHILLIP BRANDENBURG

*Digitally signed by*

**PHILLIP BRANDENBURG**

**OFFICE**

AJV-A423

**DATE**

07/12/2022

**APPROVED BY**

MARLON ROBINSON

Aug 05, 2022

**OFFICE**

AJV-A420

**DATE**

*Digitally signed by*

**ALLAN WILL**

Aug 12, 2022

**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

