

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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 (RNP) X RWY 33L	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> BOSTON	<u>STATE</u> MA		
<u>AIRPORT ELEVATION</u> 19	<u>TDZE</u> 16	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 15W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 DECEMBER 2021	<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>
CALMM	IAF	PCFUL		TF	FB	1.00	278.80	6.17	4000
PCFUL		HEXUS		TF	FB	1.00	278.68	3.22	3000
HEXUS		CRLTN		TF	FB	1.00	278.79	4.02	2000
YOUUK	IAF	CNOLI		TF	FB	1.00	103.36	6.41	5000
CNOLI		FEEST		RF	FB	1.00	(2.48 NM RADIUS CW (CFFCN))	3.82	3900
FEEST		TRCIE		TF	FB	1.00	191.69	2.08	3300
TRCIE		SRENE		RF	FB	1.00	(2.40 NM RADIUS CW (CFFCS))	2.35	2600
BRUNL	IAF	RYLAN		TF	FB	1.00	246.84	6.46	4000
RYLAN		SRENE		TF	FB	1.00	247.73	4.75	2600
SRENE		CRLTN		RF	FB	1.00	(2.40 NM RADIUS CW (CFFCS))	1.30	2000
BBOGG	IAF	YAAZZ		TF	FB	1.00	025.44	5.66	5000
YAAZZ		PEOPL		TF	FB	1.00	335.15	5.80	4000
PEOPL		FSSKK		TF	FB	1.00	335.09	4.10	2800
FSSKK		CRLTN		RF	FB	1.00	(2.45 NM RADIUS CCW (CFFFR))	2.41	2000
CRLTN	IF	* SHUSH	PFAF	TF	FB	1.00	278.65	2.62	1400
SHUSH	PFAF	* KWIET		TF	FB	0.30	278.62	0.94	
KWIET		* MURMR		RF	FB	0.30	(1.70 NM RADIUS CW (CFFBW))	1.53	
MURMR		* RW33L	MAP	TF	FO	0.30	330.19	1.71	

**QUALITY
19
CHECKED**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
RW33L	MAP	600 MSL		CA			330.19		600
600 MSL		WAXEN		DF	FO	1.00			3000

MISSED APPROACH**MAP:**

RNP: DA

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 CRLTN
3. FAC: * PFAF: SHUSH DIST PFAF TO MAP: DIST PFAF TO THLD:
4. MIN ALT: CRLTN 2000, SHUSH 1400
5. DIST TO THLD FROM PFAF: 4.19 MM: IM: 150 HAT: 257 HAT: 0.65 GS ANT:
6. MIN GP INCPT: 1400 GP ALT AT PFAF : SHUSH 1400, KWJET 1099, MURMR 612 OM: MM: IM:
7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 51.5
8. MSA FROM: RW33L 2500

PBN REQUIREMENTS NOTE:RNP AR APCH.
RF REQUIRED.**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 4000.
CHART SPEED ICON IN PLANVIEW AT HEXUS: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT YOUUK: MAX 230 KIAS.
CHART SPEED ICON IN PLANVIEW AT CNOLI: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT BRUNL: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT BBOGG: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT CRLTN: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NE, LT, 208.99 INBOUND.
CHART MANDATORY 6000 AT CALMM.
CHART MANDATORY 7000 AT YOUUK.
CHART MANDATORY 6000 AT BRUNL.
CHART MANDATORY 6000 AT BBOGG.



MINIMUMS:

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

ALTERNATE: NA ☒

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
AUTHORIZATION REQUIRED															
RNP 0.30 DA	273	2400	257	273	2400	257	273	2400	257	273	2400	257			

CHANGES - REASONS

ORIGINAL PROCEDURE

09/02/2021: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/03/2021:

1. TERMINAL ROUTES REPLACED WP FROM WHYYY TO YAAZZ - ATC REQUEST.
2. TERMINAL ROUTES REPLACED WP FROM BYTRR TO FSSKK - ATC REQUEST.

COORDINATED WITH:~~A4A~~ ☒ ~~ALPA~~ ☒ ~~AOPA~~ ☒ ~~APA~~ ☒ ~~HAI~~ ☐ ~~NBAA~~ ☒ **OTHER:** BOS APP CON, BOS ATCT, ZBW, BOS APT MGR**FLIGHT CHECKED BY**

JOEL MURPHY

Digitally signed by

JOHN BORDY

Nov 05, 2021

OFFICE

FICO

DATE

11/03/2021

DEVELOPED BY

HEIDI SNIDER

Digitally signed by

HEIDI SNIDER

Sep 02, 2021

OFFICE

AJV-A422

DATE

08/03/2021

APPROVED BY

MARLON ROBINSON

Digitally signed by

JOHN BORDY

Nov 05, 2021

OFFICE

AJV-A420

DATE**TITLE**
MANAGER