

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> ASH	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> NASHUA	<u>STATE</u> NH
<u>AIRPORT ELEVATION</u> 200	<u>TDZE</u> 200	<u>SUPERSEDED</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 04/22/2021
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 SEPTEMBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 16W
				<u>EPOCH YEAR</u> 1995
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CON VOR/DME		TUMAE		TF	FB	1.00	213.29	14.43	3800
TUMAE	IAF	MUGGY	NOPT	TF	FB	1.00	228.59	6.71	3800
MUGGY	IF/IAF	LODTI		TF	FB	1.00	138.53	4.29	2500
LODTI		NORIY		TF	FB	1.00	138.59	3.58	1600
NORIY	FAF	HESKO/2.40 NM TO RW14		TF	FB	0.30	138.64	1.85	
HESKO/2.40 NM TO RW14		RW14	MAP	TF	FO	0.30	138.64	2.40	
RW14	MAP	800 MSL		CA			138.64		800
800 MSL		PELAN		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 DIRECT PELAN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)
2. HOLD NW MUGGY, LT, 138.69 INBOUND, 3800 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 138.64

FAF: NORIY

DIST FAF TO MAP: 4.25

DIST FAF TO THLD: 4.25
4. MIN ALT: MUGGY 3800, LODTI 2500, NORIY 1600, HESKO/2.40 NM TO RW14 1000
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

200 HAT: 0.48

GS ANT:
6. MIN GP INCPT: 1600

GP ALT AT PFAF: NORIY 1600

OM:

MM:

IM:
7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 47.0
8. MSA FROM: RW14 4400

QUALITY
12
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CON VOR/DME AIRWAY RADIALS 223 CW 246.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 SM AND LNAV CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 262.45 INBOUND.
CHART FAS OBST: 445 TREE 424639N/0713139W.
CHART 752 TOWER (33-000074) 424816N/0713749W.
CHART VDP AT 1.42 NM TO RW14.
WAAS CHANNEL # 97730
REFERENCE PATH ID: W14A
CHART CIRCLING ICON.
LTP HAE: 33.5 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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	400	1/2	200	400	1/2	200	400	1/2	200	400	1/2	200			
LNAV/VNAV DA	614	3/4	414	614	3/4	414	614	3/4	414	614	3/4	414			
LNAV MDA	700	1/2	500	700	1/2	500	700	1	500	700	1	500			
CIRCLING	840	1	640	860	1	660	920	2	720	980	2 1/2	780			

CHANGES - REASONS

1. TERMINAL ROUTES: DELETED "POINT" IN FIX TYPE FOR CON VOR/DME FEEDER LEG - UNSUPPORTED BY 8260.19I
2. TERMINAL ROUTES: CHANGED FEEDER CON VOR/DME TO TUMAE COURSE AND DISTANCE FROM 213.42/14.55 TO 213.29/14.43 AND INITIAL LEG TUMAE TO MUGGY FROM 228.57/6.59 TO 228.59/6.71 – MOVED TUMAE .12 NM TO MEET MINIMUM LEG LENGTH.
3. TERMINAL ROUTES: CHANGED MUGGY TO LODTI COURSE AND DISTANCE FROM 138.69/4.67 TO 138.53/4.29 AND LODTI TO NORIY DISTANCE FROM 3.20 TO 3.58 – LODTI POSITION MOVED DUE TO ILS OR LOC RWY 14 FIX RELOCATION REQUIREMENT TO MEET SATISFACTORY INTERSECTION CRITERIA.
4. PROFILE: LINE 2 CHANGED HOLDING AT MUGGY FROM 138.49 INBOUND TO 138.69 INBOUND – ALIGNED TP MATCH THE ILS OR LOC RWY 14 INBOUND COURSE.
5. PROFILE: LINE 4 DELETED ASTERISK AT "HESKO/2.40 NM TO RW14 1000" – IAW 8260.19I, 1-1-5.F (12).
6. CHANGED PBN REQUIREMENTS NOTE: "RNP APCH." TO "RNP APCH – GPS." – IAW 8260.19I PARA 8-6-8.B (2).
7. NOTES: UPDATED CHART NOTE FROM "FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM." TO "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 SM AND LNAV CAT C/D VISIBILITY TO 1 3/8 SM." – DUE TO NEW TARGETS EVALUATION/MINIMUMS.
8. ADDITIONAL FLIGHT DATA: AMENDED "HOLD E, RT, 266.83 INBOUND" TO "HOLD E, RT, 262.45 INBOUND" – CHANGED INBOUND HEADING TO MATCH NEW ILS OR LOC RWY 14 HOLDING PATTERN.
9. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM "435 TREE 424637N/0713135W" TO "445 TREE 424639N/0713139W" – DUE TO NEW TARGETS EVALUATION/CONTROLLING OBSTACLE.
10. ADDITIONAL FLIGHT DATA: AMENDED NOTE FROM "CHART 752 TOWER 424816N/0713749W" TO "CHART 752 TOWER (33-000074) 424816N/0713749W" – ADDED OBSTACLE NUMBER IAW 8260.19I PARA 8-6-10.C.
11. ADDITIONAL FLIGHT DATA: DELETED NOTE "“LNAV ONLY” AND ASTERISK AFTER "CHART VDP AT 1.42 NM TO RW24" – IAW 8260.19I, 1-1-5.F (12).
12. MINIMUMS: INCREASED LNAV/VNAV DA/HAT FROM 596/396 TO 614/414 AND VISIBILITY FROM 5/8 SM TO 3/4 SM – NEW CONTROLLING OBSTACLES BASED ON NEW TARGETS EVALUATION.
13. CIRCLING MINIMUMS: INCREASED MDA/HAA CAT A FROM 820/620 TO 840/640, INCREASED CAT B FROM 840/640 TO 860/660, INCREASED CAT C FROM 900/700 TO 920/720, AND REDUCED CAT D FROM 1000/800 TO 980/780 – NEW CONTROLLING OBSTACLES BASED ON NEW TARGETS EVALUATION.

COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZBW, BOS APP CON, ASH ATCT

FLIGHT CHECKED BY

JEREMY R VIRTIS

Digitally signed by

CASIMIR L TABAKA

Jun 18, 2024

OFFICE

FPO

DATE

01/17/2024

DEVELOPED BY

CASIMIR L. TABAKA (CHRISTOPHER D. WILKINSON)

Digitally signed by

CASIMIR L TABAKA

Jun 18, 2024

OFFICE

AJV-A432

DATE

09/12/2023

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

CASIMIR L TABAKA

Jun 18, 2024

OFFICE

AJV-A432

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA

0
0
KASH
RW14
0
0
W14A
424712.6980N
0713124.5985W
+00335
424624.5440N
0712942.7885W
00047.0
F
03.00
106.75
0920
40.0
35.0

CRC REMAINDER

4691201C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K6
+00611
+00611

