

**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> KASH	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> NASHUA	<u>STATE</u> NH		
<u>AIRPORT ELEVATION</u> 200	<u>TDZE</u> 193	<u>SUPERSEDED</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 04/28/2016	<u>MAG VAR</u> 16W	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 22 APRIL 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 229/30 CW 049/30	NOPT	ELIRY	IF/IAF	2500
2. 049/30 CW 139/30		049/15 CW 139/15		3800
3. 049/15 CW 139/15		IRGAW	IAF	2500
4. 139/30 CW 229/30		139/15 CW 229/15		4000
5. 139/15 CW 229/15		JEGDO	IAF	2500

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
IRGAW	IAF	ELIRY	NOPT	TF	FB	1.00	048.79	7.00	2500
JEGDO	IAF	ELIRY	NOPT	TF	FB	1.00	228.91	7.00	2500
ELIRY	IF/IAF	CORNY		TF	FB	1.00	318.85	6.02	2000
CORNY	FAF	ESICU/3.10 NM TO RW32		TF	FB	0.30	318.77	2.44	
ESICU/3.10 NM TO RW32		RW32	MAP	TF	FO	0.30	318.77	3.10	
RW32	MAP	800 MSL		CA			318.77		800
800 MSL		JOHNZ		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW32

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 800 THEN CLIMBING LEFT TURN TO 4000 DIRECT JOHNS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD SE ELIRY, RT, 318.85 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	318.77	FAF: CORNY	DIST FAF TO MAP: 5.54		DIST FAF TO THLD: 5.54
4. MIN ALT: ELIRY 2500, CORNY 2000, ESICU/3.10 NM TO RW32 1220*					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	284 HAT: 0.75	GS ANT:
6. MIN GP INCPT: 2000	GP ALT AT FAF :	CORNY 2000	OM:	MM:	IM:
7. GP ANGLE: 3.00	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 45.0		
8. MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART SPEED ICON IN PLANVIEW AT IRGAW: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT JEGDO: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT ELIRY: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 071.34 INBOUND.
CHART FAS OBST: 370 TREE 424701N/0712952W.
CHART 980 TOWER 424407N/0712335W, 478 TOWER 424429N/0712712W.
CHART VDP AT 1.24 NM TO RW32*
*LNAV ONLY.
WAAS CHANNEL # 73030
REFERENCE PATH ID: W32A
CHART CIRCLING ICON.
LTP HAE: 30.9 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	477	7/8	284	477	7/8	284	477	7/8	284	477	7/8	284			
LNAV/VNAV DA	633	1 1/4	440	633	1 1/4	440	633	1 1/4	440	633	1 1/4	440			
LNAV MDA	620	1	427	620	1	427	620	1 1/4	427	620	1 1/4	427			
CIRCLING	820	1	620	840	1	640	900	2	700	1000	2 1/2	800			

CHANGES - REASONS

1. DELETED NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - 8260.19H, 8-6-8.
2. REMOVED ALL NOTES REFERENCING THE BACK-UP ALTIMETER SETTING - MOVED TO FORM 8260-9 FOR CONTINGENCY USE.
3. ADDED 20:1 IS CLEAR TO LINE 7 - 8260.19H, 8-6-7G.
4. REMOVED FAHRENHEIT VALUES FROM UNCOMPENSATED BARO-VNAV NOTE - NO LONGER REQUIRED.
5. UPDATED HELICOPTER VISIBILITY REDUCTION NOTE TO IDENTIFY RUNWAY - 8260.19H, 8-6-11K(3).
6. DELETED FEEDER ROUTE FROM MANCHESTER (MHT) VOR/DME - ADDED TAA TO PROCEDURE REMOVED PER FPT REQUEST.
7. DELETED FEEDER ROUTE FROM GARDNER (GDM) VOR/DME - ADDED TAA OVERLIES ENROUTE AIRWAYS, FEEDER ROUTES NOT REQUIRED.
8. DELETED IAF FROM LAWRENCE (LWM) VOR/DME - LWM VOR/DME BEING DECOMMISSIONED.
9. DELETED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON GDM VOR/DME AIRWAY RADIALS 042 CW 179 - FEEDER ROUTE REMOVED.
10. DELETED PLANVIEW NOTE: RADAR REQUIRED FOR ARRIVAL AT LWM VOR/DME - NAVAID REMOVED FROM PROCEDURE. DECOMMISSIONED.
11. ADDED TAA TO PROCEDURE - PER FPT REQUEST.
12. CHANGED LPV DA/HAT/VIS FROM 481/288/1 TO 477/284/7/8 - UPDATED OBSTACLE DATABASE.
13. CHANGED LNAV/VNAV DA/HAT/VIS FROM 634/441/1 1/2 TO 633/440/11/4 - UPDATED OBSTACLE DATABASE.
14. CHANGED CIRCLING VIS FROM CAT A/B 1 3/4 TO 1 - UPDATED OBSTACLE DATABASE AND NEW INOP TABLE .
15. CHANGED DISTANCE TO THLD FROM "288 HAT: 0.76 NM" TO "284 HAT: 0.75 NM" - HEIGHT AND DISTANCE ADJUSTMENT DUE TO UPDATED CONTROLLING OBSTACLE.
16. CHANGED VDP PLACEMENT FROM 1.20NM TO 1.24NM - ADJUSTMENT FOUND DURING PROCEDURE AMENDMENT.
17. ADDED MAX ALTITUDE "6000" TO LINE 2 OF PROFILE - NEW REPORTS FORMAT INCLUDE MAXIMUM HOLDING ALTITUDES AT H-I-L.
18. CRC REMAINDER CHANGED FROM E4BA50C1 TO 8759D368 - FPAP LAT/LONG UPDATED.
19. CHANGED MISSED APPROACH PROCEDURE FROM "CLIMB TO 3800 DIRECT MUGGY INT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3800" TO "CLIMB TO 800, THEN CLIMBING LEFT TURN TO 4000 DIRECT JOHNS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000" - DUE TO TERRAIN, THE CLIMB-IN-HOLD AT MUGGY WOULD NEED TO BE RAISED TO 4400. AIRSPACE CONSTRAINTS PROHIBIT THIS. ATC REQUESTED MOVE.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZBW, BOS APP CON, ASH ATCT

FLIGHT CHECKED BY

JEREMY R VIRTIS

Digitally signed by
DAVID TEFFETELLER
Mar 02, 2021

OFFICE
FICO

DATE
02/25/2021

DEVELOPED BY
JAMES LAFFERTY

Digitally signed by
JAMES LAFFERTY
Dec 03, 2020

OFFICE
AJV-A433

DATE
05/14/2020

APPROVED BY
LONNIE EVERHART

Digitally signed by
DAVID TEFFETELLER
Mar 02, 2021

OFFICE
AJV-A430

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KASH
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	424642.5470N
LTP/FTP LONGITUDE	0713020.8400W
LTP/FTP ELLIPSOIDAL HEIGHT	+00309
FPAP LATITUDE	424730.6915N
FPAP LONGITUDE	0713202.6665W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1032
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	8759D368

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00582
FPAP ORTHOMETRIC HEIGHT	+00582

