

**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><b>AIRPORT ID</b></u> KEEN	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 2	<u><b>ORIGINAL/AMENDMENT</b></u> 1	<u><b>CITY</b></u> KEENE	<u><b>STATE</b></u> NH		
<u><b>AIRPORT ELEVATION</b></u> 488	<u><b>TDZE</b></u> 488	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 2	<u><b>ORIGINAL/AMENDMENT</b></u> ORIG-A	<u><b>DATED</b></u> 08/16/2018	<u><b>MAG VAR</b></u> 15W	<u><b>EPOCH YEAR</b></u> 1995
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 7 OCTOBER 2021	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>CANCEL/SUSPEND</b></u>		

**TAA**

<b>FROM</b>	<b>FIX TYPE</b>	<b>TO</b>	<b>FIX TYPE</b>	<b>ALTITUDE</b>
1. 288/30 CW 108/30	NOPT	288/15 CW 108/15		5100
2. 288/15 CW 108/15		JUNPU	IF/IAF	3400
3. 108/30 CW 198/30		108/15 CW 198/15		6400
4. 108/15 CW 198/15		ZORFO	IAF	4400
5. 198/30 CW 288/30		198/8 CW 288/8		4900
6. 198/8 CW 288/8		TESCO	IAF	3600

**TERMINAL ROUTES**

<b>FROM</b>	<b>FIX TYPE</b>	<b>TO</b>	<b>FIX TYPE</b>	<b>LEG TYPE</b>	<b>FO/FB</b>	<b>RNP</b>	<b>COURSE</b>	<b>DISTANCE</b>	<b>ALTITUDE</b>
ZORFO	IAF	JUNPU	NOPT	TF	FB	1.00	108.12	7.00	3400
TESCO	IAF	JUNPU	NOPT	TF	FB	1.00	288.34	7.00	3400
JUNPU	IF/IAF	JURGI		TF	FB	1.00	018.23	5.93	2600
JURGI	FAF	CEYAK/4.36 NM TO RW02		TF	FB	0.30	018.23	2.14	
CEYAK/4.36 NM TO RW02		RW02	MAP	TF	FO	0.30	018.23	4.36	
RW02	MAP	1600 MSL		CA			018.23		1600
1600 MSL		JUNPU		DF	FO	1.00			3400



**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV: RW02

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3400 DIRECT JUNPU AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

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

2. HOLD S JUNPU, LT, 018.23 INBOUND, 3400 FT. IN LIEU OF PT (IF/IAF), MAX 6000.

3. FAC: 018.23                      FAF: JURGI                      DIST FAF TO MAP: 6.50                      DIST FAF TO THLD: 6.50

4. MIN ALT: JUNPU 3400, JURGI 2600, CEYAK/4.36 NM TO RW02 1920

5. DIST TO THLD FROM OM:                      MM:                      IM:                      150 HAT:                      355 HAT: 0.98                      GS ANT:

6. MIN GP INCPT: 2600                      GP ALT AT FAF : JURGI 2600                      OM:                      MM:                      IM:

7. GP ANGLE: 3.00                      34:1: IS NOT CLEAR                      20:1: IS CLEAR                      TCH: 42.5

8. MSA FROM:

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: CIRCLING RWY 32 NA AT NIGHT.  
CHART NOTE: RWY 2 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE:INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS AND LNAV CAT A. FOR INOPERATIVE ALS, INCREASE LNAV CAT B VISIBILITY TO 1 1/4 SM.

**ADDITIONAL FLIGHT DATA:**

FAS OBST: 1086 AAO 424929N/0721719W.  
1624 AAO 424636N/0721833W, 1441 AAO 424837N/0721721W.  
CHART VDP AT 2.54 NM TO RW02  
WAAS CHANNEL # 65708  
REFERENCE PATH ID: W02A  
CHART CIRCLING ICON.  
LTP HAE: 121 M



**MINIMUMS:**

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

**ALTERNATE:** NA ☐ CAT A 900-2, CAT B 1000-2, CAT C 1300-3, CAT D 1500-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	843	1	355	843	1	355	843	1	355	843	1	355			
LNAV MDA	1340	1	852	1340	1	852	1340	2	852	1340	2	852			
CIRCLING	1380	1 1/4	892	1480	1 1/2	992	1760	3	1272	1980	3	1492			

**CHANGES - REASONS**

1. INCORPORATED ALL CHANGES FROM P-NOTAM ORIG-A INTO THESE FORMS.
2. ADDED TAA, HIL, IAF AT JUNPU. - REDESIGN FOR PROCEDURE ENTRY AND TO ALLOW NOPT TAA SEGMENT TO CONNECT AT JUNPU.
3. EXTENDED ZORFO AND TESCO INITIAL LEGS 2 MILES EACH. - ALLOWS LEGS TO ACCOMMODATE ATC VECTORS.
4. REMOVED MSA, FEEDER LEGS FROM BRATS AND LURCH, INITIAL LEG FROM GDM AND PROCEDURE NA FOR ARRIVAL NOTES FOR BRATS AND GDM LEGS. - NOT REQUIRED WITH TAA.
5. CHANGED MISSED APPROACH AND HOLDING WITH EEN CLEARANCE LIMIT FROM "CLIMB TO 3000 DIRECT TEYRU..." TO "CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3400 DIRECT JUNPU AND HOLD.. - EEN VOR MON.
6. CHANGED LINE 2 FROM PROFILE STARTS AT JUNPU TO HOLD S JUNPU, LT, 018.23 INBOUND, 3400 FT. IN LIEU OF PT (IF/IAF), MAX 6000. - PROCEDURE RE-DESIGN.
7. CHANGED LINE 3 DIST FAF TO MAP/THLD FROM 6.38/6.38 TO 6.50/6.50 AND DISTANCE FROM CEYAK TO RW02 FROM 4.00 TO 4.36. - PROCEDURE RE-DESIGN.
8. CHANGED DISTANCE TO THLD FROM 396 HAT: 1.11 TO 355 HAT: 0.98. - REVISED EVALUATION.
9. CHANGED LPV DA/HAT FROM 884/396 TO 843/355 AND LNAV MDA/HAT FROM 1380/892 TO 1340/852. REVISED PROCEDURE DESIGN AND NEW EVALUATION.
10. ADDED CIRCLING ICON AND CHANGED CIRCLING MDA/HAA CAT C FROM 1480/992 TO 1760/1272 AND CAT D FROM 1640/1152 TO 1980/1442. - UPDATED EVALUATION WITH NEW CIRCLING RADII.
11. LOWERED LNAV VISIBILITY MINS FOR CAT B AND C FROM 2 ¼ SM TO 2 SM. - UPDATED EVALUATIONS WITH AMENDED HAT.
12. CHANGED ALTERNATE MINS FROM "CAT A 900-2, CAT B 1000-2, CAT C 1000-3, CAT D 1200-3" TO "CAT A 900-2, CAT B 1000-2, CAT C 1300-3, CAT D 1500-3." - UPDATED EVALUATION WITH NEW CIRCLING RADII.
13. REMOVED RWY 20 FROM CIRCLING NA AT NIGHT NOTE. - NO 20:1 OBSTACLES TO RWY 20 IN EVALUATION.
14. DELETED ORANGE ALTIMETER NOTES. - MOVED NOTES TO BACK OF -9 FOR CONTINGENCY PURPOSES.
15. CHANGED "FOR INOPERATIVE ALS, INCREASE LPV VISIBILITY ALL CATS TO 1 ½ SM AND LNAV CATS A AND B VISIBILITIES TO 1 ¼ SM" TO "INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS AND LNAV CAT A. FOR INOPERATIVE ALS, INCREASE LNAV CAT B VISIBILITY TO 1 1/4 SM." - UPDATED EVALUATION.
16. CHANGED FAS OBST FROM 1300 FT TREE TO 1086 FT AAO AND ADDED 1624 FT AAO AND 1441 FT AAO TO 7:1 EXCLUSIONS. - REVISED EVALUATION AND MAP STUDY.
17. ADDED VDP. - REVISED EVALUATION.
18. CHANGED PBN/EQUIPMENT REQUIREMENT NOTE FROM RNP APCH TO RNP APCH - GPS. - 8260.19I 8-6-8 B (2).
19. CHANGED TCH FROM 42.6 TO 42.5, FPAP LAT/LONG FROM 425415.5100N/0721610.4300W TO 425443.3340N/0721608.2930W, LENGTH OFFSET FROM 0000 TO 0864 AND CRC REMAINDER FROM 87B5D144 TO 189E8FB7. - REVISED EVALUATION.
20. CHANGED CEYAK STEPDOWN ALTITUDE FROM 1820 TO 1920. - UPDATED PROCEDURE EVALUATION.
21. REMOVED "LNAV ONLY" AND "\*" FROM ADDITIONAL FLIGHT DATA. - NO LONGER REQUIRED BY 8260.19I.

8/30/21: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 8/6/21.

1. CHANGED STRAIGHT IN PORTION OF TAA SEGMENTS FROM 289/30 AND 289/15 TO 288/30 AND 288/15. - CORRECTING ROUNDING ERROR.

AIRPORT ID  
KEEN

PROCEDURE NAME  
RNAV (GPS) RWY 2

ORIGINAL/AMENDMENT  
1

CITY  
KEENE

STATE  
NH

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZBW, AMGR

*Digitally signed by*

FLIGHT CHECKED BY

**JOHN BORDY**

OFFICE

DATE

STEPHEN BAUER

Aug 30, 2021

FICO

06/03/2021

*Digitally signed by*

DEVELOPED BY

**JOHN BORDY**

OFFICE

DATE

JOHN BORDY (STEVEN WINNER)

Aug 30, 2021

AJV-A422

01/29/2021

APPROVED BY

*Digitally signed by*

OFFICE

DATE

TITLE  
MANAGER

MARLON ROBINSON

**JOHN BORDY**

AJV-A420

Aug 30, 2021



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KEEN
RUNWAY	RW02
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W02A
LTP/FTP LATITUDE	425314.3530N
LTP/FTP LONGITUDE	0721615.1370W
LTP/FTP ELLIPSOIDAL HEIGHT	+01210
FPAP LATITUDE	425443.3340N
FPAP LONGITUDE	0721608.2930W
THRESHOLD CROSSING HEIGHT (TCH)	00042.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0864
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	189E8FB7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01487
FPAP ORTHOMETRIC HEIGHT	+01487

