

**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</u> WINDOW ROCK	<u>AIRPORT ID</u> KRQE	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 3	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> WINDOW ROCK	<u>STATE</u> AZ
<u>AIRPORT ELEVATION</u> 6742	<u>TDZE</u> 6719	<u>SUPERSEDED</u> RNAV (GPS) RWY 2	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 04/28/2016	<u>MAG VAR</u> 9E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 DECEMBER 2019	<u>REQUIRED EFFECTIVE DATE</u> 12/05/2019	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
FORAN	IAF	HABON		TF	FB	1.00	040.59	10.38	8900
HABON	IF	CONPO		TF	FB	1.00	024.97	5.73	8700
CONPO	FAF	POMBE/3.77 NM TO RW03		TF	FB	0.30	025.01	2.00	
POMBE/3.77 NM TO RW03		RW03	MAP	TF	FO	0.30	025.01	3.77	
RW03	MAP	7142 MSL		CA			025.01		
7142 MSL		FORAN		DF	FO	1.00			9600

**MISSED APPROACH**

**MAP:**

LP: RW03  
LNAV: RW03

**MISSED APPROACH INSTRUCTIONS:**

CLIMBING LEFT TURN TO 9600 DIRECT FORAN AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

1. PT      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF (IAF)**
2. PROFILE STARTS AT HABON
3. **FAC:** 025.01      **FAF:** CONPO                      **DIST FAF TO MAP:** 5.77                      **DIST FAF TO THLD:** 5.77
4. **MIN ALT:** HABON 8900, CONPO 8700, POMBE/3.77 NM TO RW03 8000
5. **DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **GS ANT:**
6. **MIN GP INCPT:**                      **GP ALT AT FAF :**                      **OM:**                      **MM:**                      **IM:**
7. **GP ANGLE:**                      **34:1:** IS NOT CLEAR      **20:1:** IS CLEAR                      **TCH:**
8. **MSA FROM:** RW03 10600

**PBN REQUIREMENTS NOTE:**

RNP APCH.

**NOTES:**

CHART NOTE: CIRCLING RWY 21 NA AT NIGHT.  
 CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT FORAN ON V291 NORTHEAST BOUND.

**ADDITIONAL FLIGHT DATA:**

CHART CIRCLING ICON.  
 CONPO TO RW03: 3.20/36.  
 CHART ARRIVAL HOLDING AT FORAN: HOLD SW, RT, 040.59 INBOUND, 9000.  
 CHART VDP AT 1.51 NM TO RW03  
 WAAS CHANNEL #56424  
 REFERENCE PATH ID: W03A  
 CHART FAS OBST: 7010 VERTICAL\_STRUCTURE 353824N/1090340W.  
 FAS OBST: 6793 AAO 353703N/1090522W.  
 7235 AAO 353554N/1090745W, 7815 AAO 353415N/1090912W, 7269 AAO 353544N/1090740W.  
 LTP HAE: 2021.8 M

**MINIMUMS:**

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

**ALTERNATE:** NA  CAT A, B 1000-2, CAT C 1100-3, 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
LP MDA	7240	1	521	7240	1	521	7240	1 1/2	521		NA					
LNAV MDA	7360	1	641	7360	1	641	7360	1 7/8	641		NA					
CIRCLING	7740	1 1/4	998	7740	1 1/2	998	7780	3	1038		NA					



**CHANGES - REASONS**

1. CHANGED RUNWAY REFERENCES FROM 2 TO 3 - RUNWAY RENUMBERING DUE TO MAGVAR CHANGE.
2. MAGVAR CHANGED FROM 13E TO 9E - UPDATED TO 2020 RECORD.
3. FAC CHANGED FROM 21.02 TO 25.01 - MAGVAR CHANGED.
4. DIST FAF TO MAP CHANGED FROM 4.99 TO 5.77 - PFAF MOVED.
5. CHANGED DESCENT ANGLE FROM 3.7 TO 3.2 - IAW 8260.3D, ATC REQUESTS MAXIMUM ALLOWABLE VDA OF 0.2 DEGREES ABOVE RWY 3 VGSI ANGLE OF 3.00.
6. ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" NOTE - IAW 8260.19H.
7. FORAN-HABON COURSE/DIST CHANGED FROM 35.88/10.86 TO 40.59/10.38 - HABON MOVED, MAGVAR CHANGE.
8. HABON-CONPO COURSE/DIST CHANGED FROM 20.98/6.01 TO 24.97/5.73 - BOTH FIXES MOVED, MAGVAR CHANGE.
9. CONPO-POMBE COURSE/DIST CHANGED FROM 21.02/2.44 TO 25.01/2.0 - BOTH FIXES MOVED, MAGVAR CHANGE.
10. POMBE-RW03 COURSE/DIST CHANGE FROM 21.03/2.55 TO 25.01/3.77 - POMBE MOVED, MAGVAR CHANGE.
11. ESTABLISHED VDP AT 1.51NM TO RW 03 - PUBLISHABLE BECAUSE NO OBSTACLES PENETRATE 20:1 SLOPE.
12. CHANGED 7:1 OBSTACLES FROM 7746' AND 7592' AAO TO 7235', 7815' AND 7269' AAO - NEW OBSTACLES IDENTIFIED IN TARGETS.
13. CHANGED LP MDA/HAA FROM 7380/678 TO 7240/521 - NEW CONTROLLING OBSTACLE.
14. CHANGED LNAV MDA/HAA FROM 7480/778 TO 7360 TO 641 - NEW CONTROLLING OBSTACLE.
15. CHANGED CIRCLING CMDA/HAA CATS A/B FROM 7480/738 TO 7740/998 AND CAT C FROM 7780/1038 - NEW CONTROLLING OBSTACLES.
16. CHANGED VISIBILITIES FOR LP CAT C FROM 1 7/8 TO 1 1/2, LNAV CAT B FROM 1 1/4 TO 1, LNAV CAT C FROM 2 1/2 TO 1 7/8, CIRCLING CAT A FROM 1 TO 1 1/4, CAT B FROM 1 1/4 TO 1 1/2 AND CAT C FROM 2 1/2 TO 3 - APPLIED NEW INOP TABLE WITH NEW MDA/HAA VALUES.
17. ADDED CHART CIRCLING ICON - APPLIED EXPANDED CIRCLING.
18. ADDED 20:1 IS CLEAR - NO 20:1 PENETRATIONS FOR RWY 3.
19. CHANGED CHART NOTE FROM "CIRCLING TO RWY 20 NA AT NIGHT" TO "CIRCLING RWY 21 NA AT NIGHT" - UPDATED RWY NUMBER AND NOTE FORMAT IAW 8260.19H.
20. REPLACED "DME/DME RNP-0.3 NA" WITH PBN REQUIREMENTS NOTE "RNP APCH" - IAW 8260.19H.
21. CHANGED HELICOPTER NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 3 HELICOPTER VISIBILITY BELOW 3/4 SM NOT AUTHORIZED" - NO 20:1 PENETRATIONS.
22. DELETED NOTE "VGSI AND DESCENT ANGLES NOT COINCIDENT" - ANGLES NOW COINCIDENT.
23. INCORPORATED ALL CHANGES MADE VIA P-NOTAMS 6/0461 AND 4/4535. - TO MATCH CURRENTLY PUBLISHED PROCEDURE.
24. DELETED CHART NOTE: WHEN VGSI INOP, PROCEDURE NA AT NIGHT - NO 20:1 PENETRATIONS.
25. DELETED CHART NOTE: CIRCLING NA EAST OF RWY 02-20 - OTHER PROCEDURES AT KRQE DO NOT RESTRICT CIRCLING. PER ATC, CIRCLING SHOULD NOT BE RESTRICTED.
26. CHANGED MINIMUM ALTITUDE AT POMBE FROM 7740 TO 8000 - SDF MOVED, 8000FT FOR VAA.
27. FPAP COORDINATES CHANGED FROM 353952.7000N/1090325.0700W TO 353952.7050N/1090325.0730W - IAW FAAO 8260.19H APPENDIX K PARA 4M.
28. CRC REMAINDER CHANGED FROM C99140C1 TO 203463CB - GPA, RPI ID AND FPAP COORDINATES CHANGED.
29. CHANGED CHART FAS OBST: 6899 TREE 353824N/1090428W TO FAS OBST: 6793 AAO 353703N/1090522W - NEW CONTROLLING OBSTACLE.
30. CHANGED INBOUND HOLDING COURSE FROM 035.88 TO 040.59 - HABON MOVED AND MAGVAR CHANGED.
31. RPI APPROACH ID CHANGED FROM W02A TO W03A - RUNWAY NUMBERS CHANGING DUE TO MAGVAR CHANGE.

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: ZAB, AMGR

**FLIGHT CHECKED BY**

*Digitally signed by*

**OFFICE**

**DATE**

PENDING

**DAVID DANNER**

Sep 13, 2019

**OFFICE**

**DATE**

AJV-A421

08/01/2019

**DEVELOPED BY**

DAVID DANNER (TAYLOR GIBSON)

*Digitally signed by*

**DAVID DANNER**

Sep 13, 2019

**OFFICE**

**DATE**

AJV-A420

**TITLE  
MANAGER**

**APPROVED BY**

MARLON ROBINSON

*Digitally signed by*

**DAVID DANNER**

Sep 13, 2019



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRQE
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	353838.7740N
LTP/FTP LONGITUDE	1090426.2980W
LTP/FTP ELLIPSOIDAL HEIGHT	+20218
FPAP LATITUDE	353952.7050N
FPAP LONGITUDE	1090325.0730W
THRESHOLD CROSSING HEIGHT (TCH)	00036.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.20
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	203463CB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+20426
FPAP ORTHOMETRIC HEIGHT	+20426

