

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> KHGR	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> HAGERSTOWN	<u>STATE</u> MD		
<u>AIRPORT ELEVATION</u> 703	<u>TDZE</u> 701	<u>SUPERSEDED</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 06/22/2017	<u>MAG VAR</u> 11W	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 OCTOBER 2023	<u>REQUIRED EFFECTIVE DATE</u> 10/5/2023	<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>
ZUPUX	IF/IAF	NOLIN		TF	FB	1.00	266.60	7.00	2900
NOLIN	FAF	WORUL/1.90 NM TO RW27		TF	FB	0.30	271.60	4.88	
WORUL/1.90 NM TO RW27		RW27	MAP	TF	FO	0.30	271.60	1.90	
RW27	MAP	901 MSL		CA			271.60		
901 MSL		COVUK		DF	FO	1.00			3600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 DIRECT COVUK AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3600.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD E ZUPUX, RT, 266.60 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 271.60FAF: NOLINDIST FAF TO MAP: 6.78DIST FAF TO THLD: 6.78

4. MIN ALT: ZUPUX 4000, NOLIN 2900, WORUL/1.90 NM TO RW27 1340

5. DIST TO THLD FROM OM:MM:IM:150 HAT:200 HAT: 0.50GS ANT:

6. MIN GP INCPT: 2900GP ALT AT PFAF : NOLIN 2900OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 55.1

8. MSA FROM: RW27 3700

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 091.33 INBOUND.
CHART FAS OBST: 838 TREE (24-023213) 394313N/0774314W.
1039 AAO 394319N/0773345W.
CHART P-40, R-4009.
CHART VDP AT 1.00 NM TO RW27.
WAAS CHANNEL # 86911
REFERENCE PATH ID: W27A
CHART CIRCLING ICON.
LTP HAE: 174.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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	901	1/2	200	901	1/2	200	901	1/2	200	901	1/2	200			
LNAV/VNAV DA	986	1/2	285	986	1/2	285	986	1/2	285	986	1/2	285		QUALITY 10 CHECKED	
LNAV MDA	1060	1/2	359	1060	1/2	359	1060	5/8	359	1060	5/8	359			
CIRCLING	1160	1	457	1160	1	457	1200	1 1/2	497	1300	2	597			

CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED THS VORTAC FEEDER FROM PROCEDURE - THS VOR MON NATL PROGRAM.
2. TERMINAL ROUTES: CHANGED CA ALTITUDE FROM 886 MSL TO 901 MSL - BASED ON LPV MINIMA.
3. CHANGED PRIMARY MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 3600 DIRECT COVUK AND HOLD" TO "CLIMB TO 3600 DIRECT COVUK AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3600" -NEW TERRAIN EVALUATION.
4. PROFILE LINE 2: ADDED MAX HOLDING 6000 - REQUIRED IN CURRENT CRITERIA, IAW 8260.19I, 8-6-7, B(2).
5. PROFILE LINE 4: REMOVED "" FROM "ZUPUX 4000, NOLIN 2900, WORUL/1.90 NM TO RW27 1340" - NO LONGER REQUIRED PER CURRENT CRITERIA.
6. PROFILE LINE 5: ADDED "200 HAT: 0.50" - PER 8260.19I, PARA 8-6-7E(3).
7. PROFILE LINE 7: ADDED 20:1 IS CLEAR - NO PENETRATIONS EXIST.
8. REMOVED CHART NOTE "DME/DME RNP-0.3 NA" AND ADDED "RNP APCH - GPS" TO PBN REQUIREMENTS NOTE - PER 8260.19I PARA 8-6-8 B(2).
9. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14°C (7°F) OR ABOVE 54°C (130°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -13°C OR ABOVE 54°C" - FAHRENHEIT VALUES NO LONGER REQUIRED, NEW EVALUATION WITH UPDATED CRITICAL TEMPERATURES.
10. MOVED BACKUP ALTIMETER NOTE AND "CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MARTINSBURG ALTIMETER SETTING" FROM 8260-3 TO 8260-9 PART C: GENERAL REMARKS AS CONTINGENCY NOTE - 8260.19I, 8-6-9F(3).10.
11. REMOVED CHART NOTE "RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - NO PENETRATIONS EXIST.
12. REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT THS VORTAC ON AIRWAY RADIALS 068 CW 170" - THS VORTAC REMOVED FROM PROCEDURE, THS VOR MON NATL PROGRAM.
13. REMOVED ""LNAV ONLY" FROM NOTES - NO LONGER REQUIRED BY CURRENT CRITERIA.
14. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM "839 TREE 394310N/0774247W" TO "838 TREE (24-023213) 394313N/0774314W" - NEW CONTROLLING OBSTACLE.
15. ADDITIONAL FLIGHT DATA: CHANGED 7:1 OBSTACLE FROM "1020 AAO 394314N/0773349W" TO "1039 AAO 394319N/0773345W" - NEW TERRAIN EVALUATON.
16. ADDITIONAL FLIGHT DATA: UPDATED FROM "CHART VDP AT 1.13 NM TO RW27"" TO "CHART VDP AT 1.00 NM TO RW27" - UPDATED CALCULATION BASED OFF NEW MINIMUMS.
17. CHANGED LNAV/VNAV ALL CATS DA/HAT FROM 1035/334 TO 986/285 AND ALL CATS VISIBILITY FROM 5/8 SM TO 1/2 SM - NEW CONTROLLING OBSTACLE AND PER UPDATED 8260.3E VIS TABLES.
18. CHANGED LNAV ALL CATS MDA/HAA FROM 1100/399 TO 1060/359 AND CATS C AND D VISIBILITY FROM 3/4 SM TO 5/8 SM - NEW CONTROLLING OBSTACLE AND PER UPDATED 8260.3E VIS TABLES.
19. CHANGED CIRCLING CAT D MDA/HAA FROM 1320/617 TO 1300/597 - NEW CONTROLLING OBSTACLE.
20. CRC REMAINDER CHANGED FROM "B667C376" TO "E31BB1CB" - FPAP COORDINATES CHANGED FROM "394221.7500N/0774443.6900W" TO "394221.7615N/0774443.6875W".
21. CHANGES FROM P-NOTAMS FOR AMDT 1A INCORPORATED INTO FORM - REQUIRED IAW 8260.19I PARA 8-3-4C(3).
22. DELETED CHART NOTE: "CIRCLING TO RWY 20 NA AT NIGHT" - 20:1 PENETRATION IS LIT.

7/24/2023: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 3/3/2023.
ADDED 10/5/2023 TO REQUIRED EFFECTIVE DATE.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZDC, KHGR ATCT, ARPT MGR, POTOMAC TRACON, ATA

FLIGHT CHECKED BY

PENDING

Digitally signed by
CASIMIR L TABAKA
Jul 24, 2023

OFFICE

DATE

DEVELOPED BY

CASIMIR L. TABAKA (SILVIA YOUNG)

Digitally signed by
CASIMIR L TABAKA

OFFICE
AJV-A432

DATE
03/03/2023

APPROVED BY
CASIMIR TABAKA

Digitally signed by
CASIMIR L TABAKA
Jun 21, 2023

OFFICE
AJV-A432

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHGR
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	394236.4740N
LTP/FTP LONGITUDE	0774249.8175W
LTP/FTP ELLIPSOIDAL HEIGHT	+01747
FPAP LATITUDE	394221.7615N
FPAP LONGITUDE	0774443.6875W
THRESHOLD CROSSING HEIGHT (TCH)	00055.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	E31BB1CB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02089
FPAP ORTHOMETRIC HEIGHT	+02089

QUALITY
10
CHECKED