

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23

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> VOR RWY 9	<u>ORIGINAL/AMENDMENT</u> 7B	<u>CITY</u> HAGERSTOWN	<u>STATE</u> MD		
<u>AIRPORT ELEVATION</u> 703	<u>TDZE</u> 695	<u>SUPERSEDED</u> VOR RWY 9	<u>ORIGINAL/AMENDMENT</u> 7A	<u>DATED</u> 02/06/2014	<u>MAG VAR</u> 7W	<u>EPOCH YEAR</u> 1965
<u>FACILITY</u> HGR	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>

MISSED APPROACH

MAP:

5.46 NM AFTER HGR VOR

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1300 THEN CLIMBING LEFT TURN TO 3600 DIRECT HGR VOR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3600.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L SIDE OF COURSE 246.21 OUTBOUND 3600 FT WITHIN 10 MILES OF HGR VOR (IAF)
2.
3. FAC: 091.15 FAF: HGR VOR DIST FAF TO MAP: 5.46 DIST FAF TO THLD: 5.46
4. MIN ALT: HGR VOR 2500
8. MSA FROM: HGR VOR 4000

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART NOTE: CIRCLING RWY 20 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 066.21 INBOUND.
CHART CIRCLING ICON.
HGR VOR TO RW09: 3.07/55.



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
S-09	1080	1	385	1080	1	385	1080	1 1/8	385	1080	1 1/8	385			
CIRCLING	1160	1	457	1160	1	457	1200	1 1/2	497	1320	2	617			

CHANGES - REASONS

- ALL CHANGES FROM AMENDMENT 7A HAVE BEEN INCORPORATED INTO THIS PROCEDURE - 8260.19H 8-3-4 C (1).
- RAISED S-09 MINS FROM 1060 TO 1080 MDA - NEW MISSED APPROACH ADJUSTMENT.
- REMOVED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARTINSBURG ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET; INCREASE S-9 CAT C AND D VISIBILITY 1/4 MILE - IAW 8260.19H 8-6-9 F (3).
- RAISED S-09 CAT C VIS FROM 1 SM TO 1 1/8 SM - CONFORMS TO VISIBILITY TABLES.
- LOWERED S-09 CAT D VISIBILITY FROM 1 1/4 TO 1 1/8 SM - CONFORMS TO VISIBILITY TABLES.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDC, HGR ARTCC, AMGR, MD DEPT OF AVIATION

FLIGHT CHECKED BY
PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY
JOSHUA DUGAN

Digitally signed by
JOHN BORDY
Aug 24, 2020

APPROVED BY
MARLON ROBINSON

Digitally signed by
JOHN BORDY
Aug 24, 2020

OFFICE
AJV-A422

Digitally signed by
JOHN BORDY
Aug 24, 2020

DATE
06/17/2020

OFFICE
AJV-A420

DATE

TITLE
MANAGER



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KHGR	<u>PROCEDURE NAME</u> VOR RWY 9	<u>AMDT NO.</u> 7B	<u>CITY</u> HAGERSTOWN	<u>STATE</u> MD	<u>AIRPORT ELEVATION</u> 703	<u>FACILITY</u> HGR
---------------------------	------------------------------------	-----------------------	---------------------------	--------------------	---------------------------------	------------------------

PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE: PT

FROM
10 NM

TO
HGR VOR

<u>RNP</u>	<u>DISTANCE</u> 10.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.AAO	393922.23N/0775809.65W		1890	50	3	2A	500				DG110	2500
2.TERRAIN	393922.23N/0775809.65W		1690 (1700)								AS0	1700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

SEGMENT REMARKS:

FINAL

FROM
HGR VOR

TO
5.46 NM AFTER HGR VOR

<u>RNP</u>	<u>DISTANCE</u> 5.46	<u>PAT</u>	<u>MAP</u> 5.46 NM AFTER HGR VOR	<u>HAT</u> 385	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.TREE (24-023186)	394214.09N/0774438.84W		719	20	3	1A	250				MA100	1080

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
------------	-------------	-------------	------------	-------------	-----------	-----------	------------	----------------------	-------------	----------------	-------------------------------

SEGMENT REMARKS:



PROCEDURE TURN

FROM

HGR VOR

TO

10 NM

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
4.AAO	394342.44N/0775929.50W		2262	50	3	2A	1000					3300
5.TERRAIN	394342.44N/0775929.50W		2062 (2100)								AS1500	3600

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
--------------	-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:

MISSED APPROACH

FROM

5.46 NM AFTER HGR VOR

TO

HGR VOR

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 830					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
6.TOWER (24-020670)	394104.08N/0774352.75W		841	50	20	2C		ASC				3600
7.AAO	394536.26N/0775440.15W		1199	50	20	2C	1000					2200
8.TERRAIN	394536.26N/0775440.15W		999 (1000)								AS1500	2500

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
--------------	-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:



AIRPORT ID

KHGR

PROCEDURE NAME

VOR RWY 9

AMDT NO.

7B

CITY

HAGERSTOWN

STATE

MD

AIRPORT ELEVATION

703

FACILITY

HGR

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
9.TREE (24-023223)	394350.42N/0774252.87W	1.30	457	850	50	20	2C	300			1160
CATEGORY B											
9.TREE (24-023223)	394350.42N/0774252.87W	1.83	457	850	50	20	2C	300			1160
CATEGORY C											
10.TOWER (24-000732)	394004.09N/0774401.87W	2.88	497	890	50	20	2C	300			1200
CATEGORY D											
11.AAO	394542.00N/0774006.00W	3.76	617	1019	50	20	2C	300			1320

CIRCLING REMARKS:

MSA

CENTER

HGR VOR

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (54-020004)	392639.32N/0782051.08W	244	27.4	2905	50	20	2C	1000			4000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

INTERMEDIATE: PT AIRSPACE ALTITUDE USES 0 ADJUSTMENT DUE TO CLASS E SURFACE EXTENSION IN EFFECT.

VEGETATION = 100' PLUS TERRAIN PER FPO.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
HGR TOWER, LEESBURG FSS, ZDC ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KHGR	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KHGR	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KMRB	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KMRB	<u>DISTANCE</u> 21.88	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 71

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KHGR 703, KMRB 565
RA 70.2

<u>PRIMARY NAVAID</u> HGR VOR	<u>MONITOR POINT</u> AOCC	<u>HRS OPERATION</u> 1100Z/0300Z	<u>CAT</u> 1
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW02 - MIRL, REIL, PAPI-2L		BSC-G	
RW20 - MIRL, REIL, PAPI-2L		BSC-G	
RW09 - HIRL (PCL), REIL (PCL), PAPI-4L		PIR-G	
RW27 - MALSR (PCL), HIRL (PCL), PAPI-4L		PIR-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 55.0
-------------------------	---------------------------	------------	------------------------	--------------------------	---------------------------	--------------------

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
---------------------	----------------------	------------	----------------

CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RWY 20
20:1	
749 BUILDING (24-020573) 394256.70N/0774333.12W (0.38)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - FINAL FACILITY DOES NOT HAVE DME.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

CONTINGENCY ALTIMETER NOTE:
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARTINSBURG ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET; AND S-9 CAT C/D AND CIRCLING CAT D VISIBILITY 1/4 SM.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KHGR	<u>PROCEDURE NAME</u> VOR RWY 9	<u>AMDT NO.</u> 7B	<u>CITY</u> HAGERSTOWN	<u>STATE</u> MD	<u>AIRPORT ELEVATION</u> 703	<u>FACILITY</u> HGR
---------------------------	------------------------------------	-----------------------	---------------------------	--------------------	---------------------------------	------------------------

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	2.79
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.83
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	084
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	700
DISTANCE FROM	THLD	TO 1500FT POINT	4.86
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	3.03
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	084
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	700

THRESHOLD
COORDINATES
(IF STR-IN)

394225.06N/0774418.15W

ARP COORDINATES

394230.60N/0774335.40W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 27 DISTANCE 1.15 NM

FAF
COORDINATES

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY
16
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 6 of 7

PART E: PREPARED BY

<u>NAME</u> JOSHUA DUGAN	<u>OFFICE</u> AJV-A422	<u>DATE</u> 06/17/2020	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
-----------------------------	---------------------------	---------------------------	---

