

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</u> WHEELING OHIO CO	<u>AIRPORT ID</u> KHLG	<u>PROCEDURE NAME</u> VOR RWY 21	<u>ORIGINAL/AMENDMENT</u> 16A	<u>CITY</u> WHEELING	<u>STATE</u> WV	
<u>AIRPORT ELEVATION</u> 1194	<u>TDZE</u> 1194	<u>SUPERSEDED</u> VOR RWY 21	<u>ORIGINAL/AMENDMENT</u> 16	<u>DATED</u> 08/17/2017	<u>MAG VAR</u> 7W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> HLG	<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>
WISKE INT/AIR 9.35 DME		HLG VOR/DME					039.26	9.27	3100

**MISSED APPROACH**

**MAP:**

5.85 NM AFTER HLG VOR/DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMBING RIGHT TURN TO 3100 DIRECT HLG VOR/DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT L    **SIDE OF COURSE** 043.01    **OUTBOUND** 3100    **FT WITHIN** 10    **MILES OF** HLG VOR/DME (IAF)  
2.  
3. **FAC:** 223.01    **FAF:** HLG VOR/DME    **DIST FAF TO MAP:** 5.85    **DIST FAF TO THLD:** 5.85  
4. **MIN ALT:** HLG VOR/DME 3100  
8. **MSA FROM:** HLG VOR/DME 3100

**EQUIPMENT REQUIREMENTS NOTES:**

**NOTES:**

CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.



**ADDITIONAL FLIGHT DATA:**

CHART CIRCLING ICON.  
HLG VOR/DME TO RW21: 3.00/42.  
CHART VDP AT 4.40 DME  
DISTANCE VDP TO THLD 1.45 NM  
FAS OBST: 1440 AAO 401404N/0803720W.  
1480 AAO 401519N/0803417W.  
HOLD NE, LT, 223.00 INBOUND

**MINIMUMS:****TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT****ALTERNATE: NA** ☐ STANDARD - CAT D 800-2 1/4, 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-21	1700	5500	506	1700	5500	506	1700	1 3/8	506	1700	1 3/8	506			
CIRCLING	1720	1	526	1740	1	546	1920	2	726	1920	2 1/4	726			

**CHANGES - REASONS**

1. CHANGED CHART NOTE: "RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" TO "RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED."  
- FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11K(3).
2. CHANGED WISKE INT TO: WISKE INT/AIR 9.35 DME. - CTW VORTAC BEING DECOMMISSIONED.
3. UPDATED CAT C CIRCLING HAA FROM 706 TO 726. - NEW EVALUATION.
4. CHANGED S-21 CAT A/B VISIBILITY FROM 1 SM TO 5500 FT. - RVR SYSTEM INSTALLED.
5. CHANGED 1460 AAO IN ADDITIONAL FLIGHT DATA TO 1480 AAO. - NEW EVALUATION COMPLETED.

**COORDINATED WITH:****A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZOB, EKN FSS, HLG ATCT, PIT APP CON, ARPT MGR**FLIGHT CHECKED BY**

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED

**DEVELOPED BY**

DONALD H. LANIER (MATTHEW FULKS)

*Digitally signed by*  
**DONALD H LANIER****APPROVED BY**

GEORGE DAVIS

*Digitally signed by*  
**DONALD H LANIER**  
Dec 16, 2019**OFFICE**

AJV-A431

**OFFICE**

AJV-A430

**DATE****DATE**  
09/25/2019**DATE****TITLE**  
MANAGERQUALITY  
22  
CHECKED

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
WHEELING OHIO CO	KHLG	VOR RWY 21	16A	WHEELING	WV	1194	HLG

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM  
WISKE INT/AIR 9.35 DME

TO  
HLG VOR/DME

RNP	DISTANCE 9.27	PAT	MAP	HAT	HMAS							
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
1.STACK (39-004385)	401511.02N/0803848.40W	1672	250	50	4D	1000				AT428	3100	
2.TERRAIN	400648.00N/0803621.00W	1392 (1400)								AS1500	2900	

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: PT

FROM  
10 NM

TO  
HLG VOR/DME

RNP	DISTANCE 10.00	PAT	MAP	HAT	HMAS							
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
3.STACK (42-000032)	402147.00N/0802405.00W	1700	500	125	5E	500				AC125 AT775	3100	
4.TERRAIN	402145.00N/0802557.00W	1398 (1400)								AS1500	2900	

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL

FROM  
HLG VOR/DME

TO  
5.85 NM AFTER HLG VOR/DME

RNP	DISTANCE	PAT	MAP 5.85 NM AFTER HLG VOR/DME	HAT 506	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	401403.91N/0803719.91W		1440	50	20	2C	250					1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

PROCEDURE TURN

FROM  
HLG VOR/DME

TO  
10 NM

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
6.TOWER (39-000086)	402033.00N/0803713.00W		2002	50	20	2C	1000					3100
7.TERRAIN	401923.00N/0802507.00W		1420 (1400)								AS1500	2900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH

FROM  
5.85 NM AFTER HLG VOR/DME

TO  
HLG VOR/DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1450					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3100
1.STACK (39-004385)	401511.02N/0803848.40W		1672	250	50	4D	1000					2700
8.TERRAIN	401036.00N/0803545.00W		1323 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

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.TOWER (54-000253)	401119.00N/0803733.00W	1.31	526	1412	50	10	2B	300			1720
CATEGORY B											
10.T-L TWR (54-021813)	401101.10N/0803632.85W	1.85	546	1437	20	3	1A	300			1740
CATEGORY C											
11.ANTENNA (54-056238)	401036.95N/0803543.49W	2.91	726	1620	20	10	1B	300			1920
CATEGORY D											
11.ANTENNA (54-056238)	401036.95N/0803543.49W	3.80	726	1620	20	10	1B	300			1920

CIRCLING REMARKS:



<u>AIRPORT</u> WHEELING OHIO CO	<u>AIRPORT ID</u> KHLG	<u>PROCEDURE NAME</u> VOR RWY 21	<u>AMDT NO.</u> 16A	<u>CITY</u> WHEELING	<u>STATE</u> WV	<u>AIRPORT ELEVATION</u> 1194	<u>FACILITY</u> HLG
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MSA

CENTER  
HLG VOR/DME

RADIUS  
25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	TWR (42-000046)	402938.00N/0800108.00W	068	28.9	2048	20	50	2C	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

HLG TOWER, PIT APP CON, ZOB ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KHLG	<u>HRS OPERATION</u> 0	<u>ALTIMETER SOURCE</u> KHLG	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS	<u>LOCATION</u> KAFJ	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KAFJ	<u>DISTANCE</u> 16.5	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 40

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME KHLG 1194, KAFJ 1184 RA = 39.4.

<u>PRIMARY NAVAID</u> HLG VOR/DME	<u>MONITOR POINT</u> AOCC	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW16 - MIRL (PCL)	NPI-F	
RW34 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-F	
RW03 - MALSF (PCL), HIRL (PCL)	PIR-F	APPROACH, ROLL OUT
RW21 - HIRL (PCL), REIL (PCL), VASI-2L	PIR-F	APPROACH, ROLL OUT

<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> 41.9
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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>
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CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	VOR
34:1	
1198 TREE (KHLGT000013) 401053.93N/0803835.11W (1.09)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

BACK-UP ALTIMETER NOTE: USE WASHINGTON, PA ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET, AND INCREASE S-21 AND CIRCLING CAT C/D VISIBILITY 1/4 SM. VDP NA WHEN USING WASHINGTON, PA ALTIMETER SETTING.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1480 AAO 401519.45N/0803417.00W.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.





<u>AIRPORT</u> WHEELING OHIO CO	<u>AIRPORT ID</u> KHLG	<u>PROCEDURE NAME</u> VOR RWY 21	<u>AMDT NO.</u> 16A	<u>CITY</u> WHEELING	<u>STATE</u> WV	<u>AIRPORT ELEVATION</u> 1194	<u>FACILITY</u> HLG
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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	3.18
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.27
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	216.01
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1300
DISTANCE FROM	THLD	TO 1500FT POINT	5.25
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.06
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	216.01
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1300

THRESHOLD  
COORDINATES  
(IF STR-IN)

401051.26N/0803836.46W

ARP COORDINATES

401030.04N/0803846.57W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 3 DISTANCE 0.45 NM

FAF  
COORDINATES

FIX NAME  
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY  
22  
CHECKED

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Page 7 of 8

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PART E: PREPARED BY

<u>NAME</u> DONALD H. LANIER (MATTHEW FULKS)	<u>OFFICE</u> AJV-A431	<u>DATE</u> 09/25/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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QUALITY  
22  
CHECKED

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Page 8 of 8