

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR/DME 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> WILLIAMSBURG-WHITLEY COUNTY	<u>AIRPORT ID</u> KBYL	<u>PROCEDURE NAME</u> VOR RWY 20	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>CITY</u> WILLIAMSBURG	<u>STATE</u> KY
<u>AIRPORT ELEVATION</u> 1178	<u>TDZE</u> 1178	<u>SUPERSEDED</u> VOR/DME RWY 20	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>DATED</u> 06/23/2016	<u>MAG VAR</u> 3W
<u>FACILITY</u> LOZ	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1990

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>
LOZ VOR/DME	IF/IAF	SHADD/LOZ 8.45 DME					199.77	8.45	3100

MISSED APPROACH

MAP:

LOZ 14.45 DME

MISSED APPROACH INSTRUCTIONS:

CLIMBING LEFT TURN TO 4000 DIRECT LOZ VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD N LONDON VOR/DME, RT, 199.77 INBOUND, 3300 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 199.77 FAF: SHADD/LOZ 8.45 DME DIST FAF TO MAP: DIST FAF TO THLD: 6.00
4. MIN ALT: LOZ VOR/DME 3300, SHADD/LOZ 8.45 DME 3100, HOLLO/LOZ 11.95 DME 2000
8. MSA FROM: LOZ VOR/DME 090-200 4400, 200-090 3400

EQUIPMENT REQUIREMENTS NOTES:

EQUIPMENT REQUIREMENTS NOTE: DME REQUIRED.

NOTES:

CHART NOTE: RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART NOTE: VDP NA WHEN USING LONDON ALTIMETER SETTING.

CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON LOZ VOR/DME AIRWAY RADIALS 316 CW 113.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LONDON ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND S-20 CAT C/D AND CIRCLING CAT C VISIBILITY 1/8 SM.

ADDITIONAL FLIGHT DATA:

HOLLO TO RW20: 2.98/30.
CHART VDP AT 12.57 DME
DISTANCE VDP TO THLD 1.88 NM
CHART FAS OBST: 1579 TREE 365040N/0841205W.
CHART 1849 TOWER 365350N/0840753W, 1666 TOWER 365041N/0840928W.

QUALITY
8
CHECKED

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 1000-3

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-20	1840	1	662	1840	1	662	1840	1 7/8	662	1840	1 7/8	662			
CIRCLING	1840	1	662	1840	1	662	1840	1 7/8	662	2080	3	902			

CHANGES - REASONS

1. PROCEDURE NAME CHANGED FROM "VOR/DME RWY 20" TO "VOR RWY 20". - CHANGED NAMING CONVENTION IAW 8260.3D PARA 1-6-2.

2. ADDED EQUIPMENT REQUIREMENTS NOTE: DME REQUIRED. - IAW 8260.19H PARA 8-6-8.

3. ADDED CHART NOTE "RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED". - 34:1 VISUAL SURFACE PENETRATIONS EXIST, IAW 8260.19H PARA 8-6-11.K.(3).

4. REVISED CHART NOTE "VDP NA WITH LONDON ALTIMETER SETTING" TO "VDP NA WHEN USING LONDON ALTIMETER SETTING". - UPDATED IAW 8260.19H PARA 8-6-9.E.(9).

5. CHANGED ALTIMETER NOTE "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LONDON ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND INCREASE S-20 CATS C AND D AND CIRCLING CAT C VISIBILITY 1/8 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LONDON ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND S-20 CAT C/D AND CIRCLING CAT C VISIBILITY 1/8 SM". - UPDATED IAW 8260.19H PARA 8-6-11.N.(1).(A).

6. ALLOWED ALTERNATE MINIMUMS, KBYL AWOS NOW ON SERVICE A/WMSCR. - IAW 8260.19H PARA 8-6-9. F.(7).

7. ADDED ALPA TO ORGANIZATIONS COORDINATED WITH. - IAW 8260.19H PARA 8-6-13.A.

COORDINATED WITH:

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

FLIGHT CHECKED BY

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

DEVELOPED BY

JASON KRETSCHMER

APPROVED BY

JULIE MORGAN

Office

AJV-5422

Office

AJV-5420

DATE

08/31/2018

DATE

Nov 13, 2018

Digitally signed by

ROBERT G HAMILTON

Digitally signed by

ROBERT G HAMILTON

TITLE

MANAGER



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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
WILLIAMSBURG-WHITLEY COUNTY	KBYL	VOR RWY 20	ORIG-D	WILLIAMSBURG	KY	1178	LOZ

PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM
LOZ VOR/DME (IF/IAF)

TO
SHADD/LOZ 8.45 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	8.45											
<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.TOWER (21-001364)	365350.00N/0840753.00W		1849	500	125	5E	500				AC125	2500
2.TERRAIN	365350.00N/0840753.00W		1640 (1600)								AS1500	3100

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

FINAL

FROM
SHADD/LOZ 8.45 DME

TO
HOLLO/LOZ 11.95 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	3.50										
<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.TOWER (21-001833)	365041.00N/0840928.00W	1666	20	3	1A	250				RA48 DG36	2000

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

SEGMENT
REMARKS:



FINAL: STEPDOWN

FROM
HOLLO/LOZ 11.95 DME

TO
LOZ 14.45 DME

<u>RNP</u>	<u>DISTANCE</u> 2.50	<u>PAT</u>	<u>MAP</u> LOZ 14.45 DME	<u>HAT</u> 662			<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>
4.TREE	365039.65N/0841204.85W		1579	50	20	2C	250					1840

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>
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SEGMENT
REMARKS:

HOLD-IN-LIEU OF PT

FROM
LONDON VOR/DME

TO
P-4

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-4	<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>
5.TOWER (21-001967)	370745.00N/0840541.00W		1696	20	3	1A	1000				AT1304	4000
6.TERRAIN	370639.00N/0840247.00W		1539 (1500)								AS1500	3000

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>
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SEGMENT
REMARKS:



MISSED APPROACH

FROM
LOZ 14.45 DME

TO
LOZ VOR/DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 1590					
<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>
								ASC				4000
7.AAO	365101.10N/0840534.00W		2070	1000	3	6A	1000					3100
8.TERRAIN	365101.10N/0840534.00W		1870 (1900)								AS1500	3400

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>
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SEGMENT
REMARKS:

CIRCLING ☐ ALL CATS ☒ CAT A ☒ CAT B ☒ CAT C ☒ CAT D ☐ CAT E ☐ NOT AUTHORIZED

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>RADIUS</u>	<u>HAA</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>
<u>CATEGORY A</u>											
9.TREE	364706.00N/0841042.00W	1.30	662	1459	50	20	2C	300		SI	1840
<u>CATEGORY B</u>											
9.TREE	364706.00N/0841042.00W	1.50	662	1459	50	20	2C	300		SI	1840
<u>CATEGORY C</u>											
9.TREE	364706.00N/0841042.00W	1.70	662	1459	50	20	2C	300		SI	1840
<u>CATEGORY D</u>											
10.TREE	364505.00N/0841124.00W	2.30	902	1779	50	20	2C	300			2080

CIRCLING REMARKS:



MSA

CENTER
LOZ 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>
090-200	AAO	363842.00N/0835036.04W	154	26.6	3330	164	98	4E	1000			4400
200-090	AAO	363912.00N/0841745.00W	205	24.5	2392	164	98	4E	1000			3400

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

ORDER 8260.3 CHAPTER 2 APPLIED TO 1849 TOWER 365350.00N-0840753.00W.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1666 TOWER 365041.00N-0840928.00W.

100' VEGETATION HEIGHT PER FPT.

PER AIRPORT CONSULTANT SURVEY STATEMENT DATED 12/27/2011 AND EASTERN FPT AND AVN-110 MANAGEMENT COORDINATION, 1399 FT TOPOGRAPHIC AREA LOCATED 364858.53N/0841122.40W WITHIN 08/20/2005 SURVEY AREA NOT EVALUATED.

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	S-20
20:1	
CLEAR	
Final Type	S-20
34:1	
1338 TREE (21-023279) 364850.67N/0841120.50W (24.96)	1339 TREE (21-051543) 364852.01N/0841119.78W (21.64)
1317 TREE (21-023180) 364852.04N/0841122.42W (1.49)	

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.



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	4.00
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	3.05
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	196.77
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1546
DISTANCE FROM	THLD	TO 1500FT POINT	5.80
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.87
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	196.77
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1546

THRESHOLD
COORDINATES
(IF STR-IN)364807.87N/0841147.90W

ARP COORDINATES364742.00N/0841158.30W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 20 DISTANCE 0.45 NM

FAF
COORDINATES365353.24N/0840938.65W

FIX NAME
COORDINATES

REMARKS



<u>AIRPORT</u> WILLIAMSBURG-WHITLEY COUNTY	<u>AIRPORT ID</u> KBYL	<u>PROCEDURE NAME</u> VOR RWY 20	<u>AMDT NO.</u> ORIG-D	<u>CITY</u> WILLIAMSBURG	<u>STATE</u> KY	<u>AIRPORT ELEVATION</u> 1178	<u>FACILITY</u> LOZ
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PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
JASON KRETSCHMER	AJV-5422	08/31/2018	AERONAUTICAL INFORMATION SPECIALIST

