

**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.

<b><u>AIRPORT ID</u></b>	<b><u>PROCEDURE NAME</u></b>	<b><u>ORIGINAL/AMENDMENT</u></b>	<b><u>CITY</u></b>	<b><u>STATE</u></b>
CVG	RNAV (GPS) Y RWY 18L	2	COVINGTON	KY
<b><u>AIRPORT ELEVATION</u></b>	<b><u>TDZE</u></b>	<b><u>SUPERSEDED</u></b>	<b><u>DATED</u></b>	<b><u>MAG VAR</u></b>
896	889	RNAV (GPS) Y RWY 18L	03/24/2022	6W
<b><u>FACILITY</u></b>	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b>	<b><u>REQUIRED EFFECTIVE DATE</u></b>	<b><u>CANCEL/SUSPEND</u></b>
RNAV			ROUTINE	2025

**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>
SPUDR	IAF	PHILO		TF	FB	1.00	186.65	3.63	6000
PHILO		CRISM		TF	FB	1.00	186.72	3.19	5000
CRISM		BAIRE		TF	FB	1.00	187.28	3.21	4000
BYRAN	IAF	PIRSE		TF	FB	1.00	122.22	9.21	4700
PIRSE		BAIRE		TF	FB	1.00	122.33	5.00	4000
CRSLY	IAF	NODGE		TF	FB	1.00	242.63	7.37	4700
NODGE		BAIRE		TF	FB	1.00	242.55	5.00	4000
LEWIN	IAF	PEPCO		TF	FB	1.00	006.12	7.32	4500
PEPCO		BAIRE		TF	FB	1.00	096.12	6.95	4000
NXHAL	IAF	NEDDS		TF	FB	1.00	006.23	10.24	4500
NEDDS		BAIRE		TF	FB	1.00	276.28	5.24	4000
BAIRE	IF	FRAZE		TF	FB	1.00	186.21	4.78	2500
FRAZE	FAF	RW18L	MAP	TF	FO	0.30	186.21	4.89	
RW18L	MAP	1089 MSL		CA			186.21		
1089 MSL		LAPER		DF	FB	1.00			
LAPER		FLM VOR/DME		TF	FO	1.00	135.52	20.53	3000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW18L

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 DIRECT LAPER AND ON TRACK 135.52 TO FLM VOR/DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)			
2.	PROFILE STARTS AT BAIRE								
3.	FAC:	186.21	FAF:	FRAZE	DIST FAF TO MAP:	4.89	DIST FAF TO THLD:	4.89	
4.	MIN ALT:	BAIRE 4000, FRAZE 2500							
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:	200 HAT:	0.46
6.	MIN GP INCPT:	2500	GP ALT AT PFAF:	FRAZE 2500			OM:	GS ANT:	
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	55.1	MM:
8.	MSA FROM:	RW18L 3000							

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.  
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.  
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS AND LNAV CAT C AND D VISIBILITY TO 1 3/8 SM.  
CHART SPEED ICON IN PLANVIEW AT LEWIN: MAX 210 KIAS.  
CHART SPEED ICON IN PLANVIEW AT NXHAL: MAX 210 KIAS.  
CHART SPEED ICON IN PLANVIEW AT BAIRE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SE, LT, 317.00 INBOUND.  
FAS OBST: 1103 AAO 390721N/0843803W.  
CHART VDP AT 1.26 NM TO RW18L.  
WAAS CHANNEL # 40103  
REFERENCE PATH ID: W18A  
CHART AT OR ABOVE 7000 AT SPUDR.  
CHART MANDATORY 8000 AT BYRAN.  
CHART AT OR ABOVE 4700 AT PIRSE.  
CHART MANDATORY 8000 AT CRSLY.  
CHART AT OR ABOVE 4700 AT NODGE.  
CHART MANDATORY 6000 AT LEWIN.  
CHART AT OR ABOVE 4500 AT PEPKO.  
CHART MANDATORY 6000 AT NXHAL.  
CHART AT OR ABOVE 4500 AT NEDDS.  
CHART CIRCLING ICON.  
LTP HAE: 236.1 M



**MINIMUMS:****TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT****ALTERNATE:** NA ☐ STANDARD

<b>CATEGORY:</b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
<b>FINAL TYPE</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>
LPV DA	1089	1800	200	1089	1800	200	1089	1800	200	1089	1800	200			
LNAV/VNAV DA	1360	5000	471	1360	5000	471	1360	5000	471	1360	5000	471			
LNAV MDA	1360	2400	471	1360	2400	471	1360	5000	471	1360	5000	471			
CIRCLING	1460	1	564	1460	1	564	1560	1 3/4	664	1560	2	664			

**CHANGES - REASONS**

1. DECREASED LNAV/VNAV DA/HAT FROM 1395/506 TO 1360/471; VISIBILITY ALL CATS FROM 5500 TO 5000. – NEW EVALUATION COMPLETED.
2. ADDED PBN SEGMENTS FROM CRSLY, BYRAN, LEWIN AND NXHAL. – PER AIR TRAFFIC/IFP CHECKLIST REQUEST.
3. UPDATED INITIAL FROM SPUDR TO PHILO COURSE/DISTANCE FROM 186.21/3.14 TO 186.65/3.63. – PER AIR TRAFFIC/IFP CHECKLIST REQUEST.
4. UPDATED INITIAL STEPDOWN FROM PHILO TO CRISM COURSE/DISTANCE FROM 186.21/3.14 TO 186.72/3.19. - PER AIR TRAFFIC/IFP CHECKLIST REQUEST.
5. UPDATED INTERMEDIATE SEGMENT CRISM TO BAIRE COURSE/DISTANCE FROM 186.21/3.14 TO 187.28/3.21. – PER AIR TRAFFIC/IFP CHECKLIST REQUEST.
6. UPDATED FINAL FRAZE TO RW18L DISTANCE FROM 4.52 TO 4.89. - PFAF FRAZE MOVED PER FPT CHECKLIST
7. UPDATED MISSED APPROACH SEGMENT LAPER TO FLM VOR/DME COURSE/DISTANCE FROM 135.74/20.60 TO 135.52/20.53. - NEW EVALUATION COMPLETED.
8. UPDATED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 3000 DIRECT LAPER AND ON TRACK 135.74 TO FLM VOR/DME AND HOLD" TO "CLIMB TO 3000 DIRECT LAPER AND ON TRACK 135.52 TO FLM VOR/DME AND HOLD." - NEW EVALUATION COMPLETED.
9. LINE 2: UPDATED PROFILE FROM "STARTS ARE SPUDR" TO "STARTS AT BAIRE." - IAW 8260.19J 8-6-7 B.
10. LINE 3: DISTANCE FAF TO MAP/THLD UPDATED FROM 4.52 NM TO 4.89 NM. - NEW FAF LOCATION.
11. LINE 4: UPDATED FROM "SPUDR 7000, PHILO 6000, CRISM 5000, BAIRE 4000, FRAZE 2400" TO "BAIRE 4000, FRAZE 2500." - IAW 8260.19J 8-6-7 D.
12. LINE 6: UPDATED MIN GP INCPT AND GP ALT AT PFAF FROM 2400 TO 2500. - PER AIR TRAFFIC/IFP CHECKLIST REQUEST.
13. REMOVED EQUIPMENT REQUIREMENTS NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY. – NO LONGER REQUIRED.
14. ADDED CHART SPEED ICON IN PLANVIEW AT BAIRE: MAX 210 KIAS; AT LEWIN: MAX 210 KIAS; AT NXHAL: MAX 210 KIAS. – PER ATC/FPT REQUEST.
15. REMOVED ADDITIONAL FLIGHT DATA: FAS OBST: 1100 AAO 390719.98N/0843801.50W. – 7:1 NOT APPLIED.
16. UPDATED ADDITIONAL FLIGHT DATA: FROM CHART FAS OBST: 1038 TOWER (21-001491) 390428N/0843934W TO FAS OBST: 1103 AAO 390721N/0843803W. - NEW LNAV CONTROLLING OBSTACLE.
17. ADDED ADDITIONAL FLIGHT DATA: CHART MANDATORY 8000 AT CRSLY; CHART MANDATORY 8000 AT BYRAN; CHART MANDATORY 6000 AT LEWIN; CHART MANDATORY 6000 AT NXHAL. - IAW 8260.3F 2-2-7(F).
18. ADDED ADDITIONAL FLIGHT DATA: CHART AT OR ABOVE 7000 AT SPUDR; AT OR ABOVE 4700 AT PIRSE; AT OR ABOVE 4700 AT NODGE; AT OR ABOVE 4500 AT PEPKO; AND AT OR ABOVE 4500 AT NEDDS. - PER FPT CHECKLIST; IAW 8260.19J 8-6-11 N.
19. UPDATED CHART NOTE: FROM "SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 18C/R" TO "SIMULTANEOUS APPROACH AUTHORIZED." - CVG NOT APPROVED FOR 7110.308.
20. UPDATED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW FROM "-17°C OR ABOVE 54°C" TO "-14°C OR ABOVE 54°C." - NEW WEATHER STUDY COMPLETED.

COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER: ZID, CVG APP CON, CVG ATCT, AMGR.

FLIGHT CHECKED BY

ERIC L GEYER

Digitally signed by

CASIMIR L TABAKA

Feb 25, 2025

OFFICE

AJF

DATE

02/24/2025

DEVELOPED BY

CASIMIR L. TABAKA (BARBARA GORMAN)

Digitally signed by

CASIMIR L TABAKA

Feb 25, 2025

OFFICE

AJV-A432

DATE

09/21/2023

APPROVED BY

JOSEPH L. ZEDER

Digitally signed by

CASIMIR L TABAKA

Feb 25, 2025

OFFICE

AJV-A430

DATE

05/08/2025

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCVG
RUNWAY	RW18L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	390321.0780N
LTP/FTP LONGITUDE	0843848.0045W
LTP/FTP ELLIPSOIDAL HEIGHT	+02361
FPAP LATITUDE	390142.2390N
FPAP LONGITUDE	0843848.4560W
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	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	8C939E46

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02701
FPAP ORTHOMETRIC HEIGHT	+02701



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
CVG	RNAV (GPS) Y RWY 18L	2	COVINGTON	KY	896	RNAV

**PART A: OBSTRUCTION DATA SEGMENTS**

**INITIAL**

**FROM** SPUDR **TO** PHILO

RNP 1.00 DISTANCE 3.63 PAT MAP HAT HMAS

<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>
TOWER (39-000634)	392335.00N/0843624.00W	1197	250	50	4D	1000				AT3803	6000
TERRAIN	392157.00N/0844057.00W	898 (900)								AS1500	2400

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**INITIAL: STEPDOWN**

**FROM** PHILO **TO** CRISM

RNP 1.00 DISTANCE 3.19 PAT MAP HAT HMAS

<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>
TOWER (39-002690)	391602.00N/0843611.00W	1189	500	50	5D	1000				AT2811	5000
TERRAIN	391633.00N/0843606.00W	967 (1000)								AS1500	2500

**COMPUTATIONS**

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

**SEGMENT REMARKS:**



INITIAL: STEPDOWN

FROM

CRISM

TO

BAIRE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	3.21										
<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>
TOWER (39-002690)	391602.00N/0843611.00W	1189	500	50	5D	1000				AT1811	4000
TERRAIN	391600.00N/0843639.00W	948 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

BYRAN

TO

PIRSE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	9.21										
<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>
AAO	392112.00N/0845418.00W	1247	215	8	4B	1000				AT2453	4700
TERRAIN	392103.00N/0845357.00W	1030 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL: STEPDOWN

FROM

PIRSE

TO

BAIRE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	5.00				

<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>
AAO	391342.00N/0843627.00W	1132	215	8	4B	1000				AT1868	4000
TERRAIN	391424.00N/0843730.00W	928 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

CRSLY

TO

NODGE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	7.37				

<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>
TOWER (39-001304)	391624.00N/0843137.00W	1549	100	20	3C	1000				AT2151	4700
TERRAIN	391754.00N/0843036.00W	921 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL: STEPDOWN

FROM

NODGE

TO

BAIRE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	5.00										
<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>
AAO	391633.00N/0843551.00W	1263	215	8	4B	1000				AT1737	4000
TERRAIN	391633.00N/0843554.00W	1062 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

LEWIN

TO

PEPCO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	7.32										
<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>
STACK (39-001209)	390643.40N/0844808.10W	1292	500	50	5D	1000				AT2208	4500
TERRAIN	391224.00N/0844957.00W	935 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL: STEPDOWN

FROM

PEPCO

TO

BAIRE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	6.95										
<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>
AAO	391342.00N/0843627.00W	1132	215	8	4B	1000				AT1868	4000
TERRAIN	391424.00N/0843730.00W	928 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

NXHAL

TO

NEDDS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	10.24										
<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>
TOWER (39-001892)	391159.60N/0843121.60W	1849	250	50	4D	1000				AT1651	4500
TERRAIN	391151.00N/0843321.00W	944 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL: STEPDOWN

FROM

NEDDS

TO

BAIRE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	5.24										
<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>
TOWER (39-003769)	391122.23N/0843415.58W	1286	500	50	5D	1000				AT1714	4000
TERRAIN	391124.00N/0843418.00W	961 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

BAIRE

TO

FRAZE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	4.78										
<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>
TOWER (39-001090)	390928.00N/0843603.00W	1195	500	50	5D	500					1700
TERRAIN	390957.00N/0843624.00W	958 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM

FRAZE

TO

RW18L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.89		DA				200				
<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				1089

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

FRAZE

TO

RW18L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.89		DA				471				
<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>
TOWER (21-001491)	390428.00N/0843934.00W	1038	500	50	5D		23.14:1			AC50	1360

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

FRAZE

TO

RW18L

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.89		RW18L				471				
<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>
AAO	390721.00N/0843803.00W	1103	215	8	4B	250					1360

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LPV

FROM

DA

TO

FLM VOR/DME

<u>RNP</u> 0.30	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>			<u>HMAS</u> 920		
<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				3000
TOWER (21-001861)	385531.63N/0843727.95W	1249	20	3	1A	1000					2300
TERRAIN	385312.00N/0843627.00W	971 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM

DA

TO

FLM VOR/DME

<u>RNP</u> 0.30	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 1199				
<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				3000
TOWER (21-001861)	385531.63N/0843727.95W	1249	20	3	1A	1000					2300
TERRAIN	385312.00N/0843627.00W	971 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSSED APPROACH: LNAV

FROM

RW18L

TO

FLM VOR/DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30-1.00											1260
<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				3000
TOWER (21-001861)	385531.63N/0843727.95W	1249	20	3	1A	1000					2300
TERRAIN	385312.00N/0843627.00W	971 (1000)								AS1500	2500

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											
CONTROL_TOWER (21-001297)	390226.83N/0843931.96W	1.30	564	1159	20	3	1A	300			1460
CATEGORY B											
CONTROL_TOWER (21-001297)	390226.83N/0843931.96W	1.84	564	1159	20	3	1A	300			1460
CATEGORY C											
TOWER (21-070299)	390355.91N/0843626.72W	2.89	664	1257	20	10	1B	300			1560
CATEGORY D											
TOWER (21-070299)	390355.91N/0843626.72W	3.77	664	1257	20	10	1B	300			1560

CIRCLING REMARKS:

MSA

CENTER

RW18L

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (39-001241)	393044.00N/0843809.00W	007	27.4	1902	500	50	5D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

CVG TOWER, CVG APP CON, LOUISVILLE FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ASOS	CVG	24	CVG	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

NO BACK-UP ALTIMETER SOURCE NEEDED. 24-HR CONTROL TOWER HAS REDUNDANT ALTIMETER REPORTING EQUIPMENT.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>	
RW09 - MALSR, C/LINE, HIRL, TDZ, PAPI-4L	PIR-G	APPROACH	
RW18L - MALSR, TDZ, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW18C - MALSR, HIRL, TDZ, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW18R - ALSF-2, C/LINE, HIRL, TDZ	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW27 - MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW36L - ALSF-2, TDZ, C/LINE, HIRL	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW36C - ALSF-2, HIRL, C/LINE, TDZ, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT	
RW36R - ALSF-2, HIRL, TDZ, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, 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>	<u>TCH</u>
3.00	886.3	55.1			3.00	71.0

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>
-14C	+54C	-14C	+13.23C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2019-2023).  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 967 HIGH TEMP 1275.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FT TREES PER EASTEN FPT.

TAA NOT ESTABLISHED PER ATC REQUEST.

MANDATORY ALTITUDES AT BYRAN, CRSLY, LEWIN AND NXHAL DUE TO TERMINUS FIXES USED ON KCVG STARS.  
BRYAN AT 8000 WITH STEPDOWN FIX PIRSE AT OR ABOVE 4700 FOR 150 FT/NM SEGMENT CONFIGURATION.  
CRSLY AT 8000 WITH STEPDOWN FIX NODGE AT OR ABOVE 4700 FOR 150 FT/NM SEGMENT CONFIGURATION.  
AIRSPEED RESTRICTIONS AT LEWIN, NXHAL AND BAIRE PER ATC REQUEST.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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	3.01
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	180.21
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.69
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	180.21
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD COORDINATES (IF STR-IN)	390321.08N/0843848.00W
ARP COORDINATES	390255.82N/0844004.16W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 36R DISTANCE 1.57 NM
FAF COORDINATES	390815.00N/0843846.62W
FIX NAME COORDINATES	IF BAIRE 391302.06N/0843845.27W

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (BARBARA GORMAN)	AJV-A432	09/21/2023	AERONAUTICAL INFORMATION SPECIALIST