

**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> CVG	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 9	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> COVINGTON	<u>STATE</u> KY
<u>AIRPORT ELEVATION</u> 896	<u>TDZE</u> 883	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 9	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 03/24/2022
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 6W
				<u>EPOCH YEAR</u> 2025
				<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>
ACHOO	IAF	ROSSE		TF	FB	1.00	137.98	8.73	4100
IDULE	IAF	CINSI		TF	FB	1.00	276.14	6.42	4500
CINSI	IAF	SEMSE		TF	FB	1.00	186.05	5.16	3500
ROSSE		SEMSE		TF	FB	1.00	138.07	4.00	3500
FLOTT	IAF	AIREE		TF	FB	1.00	276.16	6.39	4500
AIREE	IAF	SEMSE		TF	FB	1.00	006.05	5.20	3500
BABGE	IAF	MENZY		TF	FB	1.00	123.82	9.97	4100
MENZY		SEMSE		TF	FB	1.00	123.93	4.00	3500
CALFS	IAF	JOCCO		TF	FB	1.00	057.73	9.77	4100
JOCCO		SEMSE		TF	FB	1.00	057.83	4.00	3500
JADOP	IAF	SEMSE		TF	FB	1.00	096.01	4.78	3500
SEMSE	IF	KAVME	PFAF	TF	FB	1.00	096.05	3.25	2500
KAVME	FAF	TOENE/2.40 NM TO RW09		TF	FB	0.30	096.10	2.51	
TOENE/2.40 NM TO RW09		RW09	MAP	TF	FO	0.30	096.10	2.40	
RW09	MAP	1083 MSL		CA			096.10		
1083 MSL		BLOCK		DF	FB	1.00			
BLOCK		CALIF		TF	FO	1.00	137.90	10.02	3000



MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW09

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT BLOCK AND ON TRACK 137.90 TO CALIF AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)			
2.	PROFILE STARTS AT SEMSE								
3.	FAC:	096.10	FAF:	KAVME	DIST FAF TO MAP:	4.91	DIST FAF TO THLD:	4.91	
4.	MIN ALT:	SEMSE 3500, KAVME 2500, TOENE/2.40 NM TO RW09 1700							
5.	DIST TO THLD FROM OM:		MM:	IM:	150 HAT:	200 HAT:	0.46	GS ANT:	
6.	MIN GP INCPT:	2500	GP ALT AT PFAF:	KAVME 2500		OM:		MM:	IM:
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	52.0	
8.	MSA FROM:	RW09 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: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5500 AND LNAV CAT C AND D VISIBILITY TO RVR 5500.
CHART SPEED ICON IN PLANVIEW AT IDULE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT CINSI: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT FLOTT: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT AIREE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 290.87 INBOUND.
CHART FAS OBST: 996 TREE (21-070368) 390224N/0844156W.
CHART VDP AT 0.96 NM TO RW09.
WAAS CHANNEL # 65709
REFERENCE PATH ID: W09A
CHART MANDATORY 8000 AT ACHOO.
CHART MANDATORY 6000 AT IDULE.
CHART MANDATORY 6000 AT FLOTT.
CHART MANDATORY 8000 AT BABGE.
CHART MANDATORY 8000 AT CALFS.
LTP HAE: 235.2 M



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

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	1083	1800	200	1083	1800	200	1083	1800	200	1083	1800	200			
LNAV/VNAV DA	1260	3500	377	1260	3500	377	1260	3500	377	1260	3500	377			
LNAV MDA	1260	2400	377	1260	2400	377	1260	3500	377	1260	3500	377			
CIRCLING	1460	1	564	1460	1	564	1560	1 3/4	664	1560	2	664			

CHANGES - REASONS

- AIRPORT MAGVAR UPDATED FROM 6W/2020 TO 6W/2025 – UPDATED PER PENDING AIRNAV DATA.
- TERMINAL ROUTES: ADDED ACHOO TO ROSSE, IDULE TO CINSI, CINSI TO SEMSE, ROSSE TO SEMSE, FLOTT TO AIREE, AIREE TO SEMSE, BABGE TO MENZY, MENZY TO SEMSE, CALFS TO JOCCO, JOCCO TO SEMSE - INCORPORATING RNAV TF LEGS FROM STAR ARRIVAL.
- TERMINAL ROUTES: UPDATED JADOP TO SEMSE COURSE FROM "096.00" TO "096.01", DISTANCE FROM "3.14" TO "4.78" AND ALTITUDE FROM "4000" TO "3500" – FIXES MOVED TO ALIGN WITH RNP APPROACHES.
- TERMINAL ROUTES: ADDED KAVME TO TOENE/2.41 NM RW09 – STEPDOWN FIX ADDED TO ACHIEVE LOWER MINIMUMS.
- TERMINAL ROUTES: CA LEG COURSE CHANGED FROM 096.11 TO 096.10 – PROCEDURE REDESIGN AND FAC CHANGED.
- TERMINAL ROUTES: UPDATED BLOCK TO CALIF COURSE FROM "135.93" TO "137.90" AND DISTANCE FROM "10.43" TO "10.02" - CLEARANCE LIMIT MOVED TO ALIGN WITH STAR ARRIVAL.
- MISSED APPROACH: UPDATED MAP FROM "RW9" TO "RW09" – IAW 8260.19J, 8-6-6.C(1).
- MISSED APPROACH INSTRUCTIONS: UPDATED FROM "CLIMB TO 3000 DIRECT BLOCK AND ON TRACK 135.93 TO CALIF AND HOLD." TO "CLIMB TO 3000 DIRECT BLOCK AND ON TRACK 137.90 TO CALIF AND HOLD" – CLEARANCE LIMIT MOVED TO ALIGN WITH STAR ARRIVAL AND UPDATED COURSE FROM BLOCK TO CALIF.
- PROFILE LINE 2: UPDATED FROM "PROFILE STARTS AT JADOP" TO "PROFILE STARTS AT SEMSE" – IAW 8260.19J, 8-6-7.B(3)(A).
- PROFILE LINE 3: FAC CHANGED FROM "096.11" TO "096.10", DIST PFAF TO MAP FROM "4.54" TO "4.91" AND DIST PFAF TO THLD FROM "4.54" TO "4.91" – PFAF MOVED TO REALIGN TO 3.00 GPA.
- PROFILE LINE 4: CHANGED FROM "JADOP 5000, SEMSE 4000, KAVME 2400" TO "SEMSE 3500, KAVME 2500, TOENE/2.41 NM RW09 1700" – IAW 8260.19J, 8-6-7.D.
- PROFILE LINE 6: UPDATED FROM "MIN GP INCPT: 2400" TO "MIN GP INCPT: 2500" AND "GP ALT AT PFAF: KAVME 2400" TO "GP ALT AT PFAF: KAVME 2500" – IAW 8260.19J, 8-6-7.F.
- NOTES: UPDATED BARO-VNAV CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C." TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14°C OR ABOVE 54°C." – UPDATED TEMPS FROM ISA30 TO 5 YEAR WEATHER STUDY.
- NOTES: UPDATED INOP CHART NOTE FROM "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 6000 AND LNAV CAT C/D VISIBILITY TO RVR 5500" TO "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5500 AND LNAV CAT C/D VISIBILITY TO RVR 5500." – IAW 8260.3F, TABLE 3-3-1.
- NOTES: ADDED CHART SPEED ICON FOR AIREE, CINSI, FLOTT AND IDULE FOR MAX 210 KIAS – IAW 8260.19J, 4-6-10.G.
- ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST FROM "1001 TOWER (21-020016) 390205N/0844343W." TO "996 TREE 390224N/0844156W." - IAW 8260.19I, 8-6-10.C AND NEW CONTROLLING OBSTACLE.
- ADDITIONAL FLIGHT DATA: ADDED CHART MANDATORY 8000 AT ACHOO, CALFS, BABGE – IAW 8260.19J, 8-6-11.N.
- ADDITIONAL FLIGHT DATA: ADDED CHART MANDATORY 6000 AT FLOTT AND IDULE - IAW 8260.19J, 8.6.11.N.
- ADDITIONAL FLIGHT DATA: UPDATED LTP HAE FROM "235.1 M" TO "235.2 M" – NEW AIRNAV SURVEY DATA.
- MINIMUMS: LOWERED LNAV/VNAV DA/VIS/HAT FROM "1297/4000/414" TO "1260/3500/377" – UPDATED SURVEY AND OBSTACLE EVALUATION.
- FAS DATA: UPDATED LTP/FTP LAT/LONG FROM "390246.9045N/ 0844142.3525W" TO "390246.9045N/ 0844142.3530W – UPDATED AIRNAV DATA.
- FAS DATA: UPDATED FPAP LAT/LONG FROM "390246.5415N/0843910.2395W" TO "390246.5410N/ 0843910.2405W" – FAC GEOMETRY CHANGED TO ACHIEVE 3.00 GPA.
- FAS DATA: UPDATED COURSE WIDTH AT THRESHOLD IN FAS DATA FROM "106.50" TO "106.75" - APPROACH ADJUSTED IAW 8260.58C 3-1-5.C(3).
- FAS DATA: UPDATED ELLIPSOIDAL HEIGHT FROM "+02351" TO "+02352" – NEW AIRNAV DATA SURVEY.
- FAS DATA: CRC REMAINDER CHANGE FROM "E183A09F" TO "7032D7BD" – LTP/FTP LAT/LONG, FPAP LAT/LONG, COURSE WIDTH AND ELLIPSOIDAL HEIGHT CHANGED.

05/01/2025: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/03/025.
TERMINAL ROUTES: ACHOO TO ROSSE DISTANCE CHANGED FROM 8.37 TO 8.73.



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

ROBERT G HAMILTON

Mar 03, 2025

OFFICE

AJF

DATE

02/27/2025

DEVELOPED BY

ROBERT G HAMILTON (TODD A. RUSSELL)

Digitally signed by

ROBERT G HAMILTON

Mar 03, 2025

OFFICE

AJV-A433

DATE

01/27/2025

APPROVED BY

ROBERT G HAMILTON

Digitally signed by

ROBERT G HAMILTON

Mar 03, 2025

OFFICE

AJV-A433

DATE

05/08/2025

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA

0
0
KCVG
RW09
0
Y
0
W09A
390246.9045N
0844142.3530W
+02352
390246.5410N
0843910.2405W
00052.0
F
03.00
106.75
0000
40.0
35.0

CRC REMAINDER

7032D7BD

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K5
+02692
+02692



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

<u>AIRPORT ID</u> CVG	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 9	<u>AMDT NO.</u> 2	<u>CITY</u> COVINGTON	<u>STATE</u> KY	<u>AIRPORT ELEVATION</u> 896	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM ACHOO **TO** ROSSE

RNP 1.00 DISTANCE 8.37 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>
AAO	391212.00N/0850248.00W	1227	215	8	4B	1000				AT1873	4100
TERRAIN	391212.00N/0850248.00W	1026 (1000)								AS1500	2500

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM IDULE **TO** CINSI

RNP 1.00 DISTANCE 6.42 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>
STACK (39-004160)	390652.50N/0844817.25W	1292	250	50	4D	1000				AT2208	4500
TERRAIN	390621.00N/0844427.00W	882 (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

CINSI

TO

SEMSE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	5.16										
<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 (18-001174)	390753.35N/0845302.09W	1193	250	50	4D	1000				AT1307	3500
TERRAIN	390754.00N/0845309.00W	879 (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

ROSSE

TO

SEMSE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	4.00										
<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>
TOWER (18-001437)	390525.00N/0845635.00W	1120	500	50	5D	1000				AT1380	3500
TERRAIN	390236.00N/0845357.00W	869 (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

FLOTT

TO

AIREE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	6.39										
<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	385648.00N/0844309.00W	1129				1000				AT2371	4500
TERRAIN	385751.00N/0844809.00W	895 (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

AIREE

TO

SEMSE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	5.20										
<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 (21-022493)	390054.31N/0844809.99W	1144	50	20	2C	1000				AT1356	3500
TERRAIN	385945.00N/0845445.00W	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

FROM

BABGE

TO

MENZY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	9.97										
<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 (18-025374)	390727.70N/0850800.80W	1261	500	50	5D	1000				AT1839	4100
TERRAIN	390742.00N/0850715.00W	1017 (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

MENZY

TO

SEMSE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	4.00										
<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>
TOWER (18-001437)	390525.00N/0845635.00W	1120	500	50	5D	1000				AT1380	3500
TERRAIN	390236.00N/0845357.00W	869 (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

CALFS

TO

JOCCO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	9.77										
<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 (18-000400)	385755.00N/0845651.00W	1252	500	50	5D	1000				AT1848	4100
TERRAIN	385345.00N/0850227.00W	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

JOCCO

TO

SEMSE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	4.00										
<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	385945.00N/0845503.00W	1103	215	8	4B	1000				AT1397	3500
TERRAIN	385942.00N/0845503.00W	902 (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

JADOP

TO

SEMSE

<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 (18-020548)	390346.15N/0845903.79W	1090	20	3	1A	1000				AT1410	3500
TERRAIN	390236.00N/0845357.00W	869 (900)								AS1500	2400

COMPUTATIONS

ALTKIASKTASHAAVKTWTRBADTACOURSE CHANGEDVEBVEB OCSRF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

SEMSE

TO

KAVME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	3.25										
<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 (21-022493)	390054.31N/0844809.99W	1144	50	20	2C	500				AT856	2500
TERRAIN	390439.00N/0844815.00W	849 (800)								AS1500	2300

COMPUTATIONS

ALTKIASKTASHAAVKTWTRBADTACOURSE CHANGEDVEBVEB OCSRF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

KAVME

TO

RW09

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.91		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				1083

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

KAVME

TO

RW09

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.91		DA				377				
<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>
TREE	390318.00N/0844257.00W	980	215	8	4B		23.14:1			AC8	1260

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM

KAVME

TO

TOENE/2.40 NM TO RW09

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	2.51										
<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 (21-022493)	390054.31N/0844809.99W	1144	50	20	2C	250				DG306	1700

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

TOENE/2.40 NM TO RW09

TO

RW09

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.40		RW09		377						
<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>
TREE (21-070368)	390224.33N/0844155.66W	996	20	3	1A	250					1260

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

CALIF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30-1.00							917				
<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 (21-000981)	390149.00N/0843022.00W	1319	500	50	5D	1000					2400
TERRAIN	390309.00N/0844027.00W	941 (900)								AS1500	2400

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
CALIF

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 1099			
<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 (21-000981)	390149.00N/0843022.00W	1319	500	50	5D	1000					2400
TERRAIN	390309.00N/0844027.00W	941 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM
RW09

TO
CALIF

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 1160			
<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 (21-000981)	390149.00N/0843022.00W	1319	500	50	5D	1000					2400
TERRAIN	390309.00N/0844027.00W	941 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID

CVG

PROCEDURE NAME

RNAV (GPS) Y RWY 9

AMDT NO.

2

CITY

COVINGTON

STATE

KY

AIRPORT ELEVATION

896

FACILITY

RNAV

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	RADIUS
RW09	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	012	28.1	1902	500	50	5D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

CVG TOWER, CVG APP CON

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

WX REMARKS:

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

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

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	883.3	52.0			3.00	70.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-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.

TAA AND FEEDERS NOT DEVELOPED PER FPT.

100 FT VEGETATION HEIGHT.

NO CAPTURE FIX USED PER 8260.58C, APPENDIX C, PARAGRAPH 2.A.(1) WAIVER.

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	3.03
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	090.10
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.71
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	090.10
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD COORDINATES (IF STR-IN) 390246.90N/0844142.35W

ARP COORDINATES 390255.82N/0844004.16W

RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 36R DISTANCE 1.57 NM

FAF COORDINATES 390247.57N/0844800.75W

FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

NAME

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OFFICE

AJV-A433

DATE

01/27/2025

TITLE

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