

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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 (RNP) Z RWY 36R	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> COVINGTON	<u>STATE</u> KY
<u>AIRPORT ELEVATION</u> 896	<u>TDZE</u> 896	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 36R	<u>DATED</u> 03/24/2022	<u>MAG VAR</u> 6W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2025
		<u>ACTUAL EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
KYKAT	IAF	SNPPR		TF	FB	1.00	006.17	3.20	6000
SNPPR		NUYLI		TF	FB	1.00	006.17	3.20	5000
NUYLI		LAPER		TF	FB	1.00	006.21	3.20	4000
SPOOD	IAF	BASJA		TF	FB	1.00	343.09	10.17	4600
BASJA		LAPER		TF	FB	1.00	343.04	4.00	4000
DAWGY	IAF	DUKVE		TF	FB	1.00	326.06	6.20	6000
FECTA	IAF	EFLOV		TF	FB	1.00	070.65	7.69	6000
LAPER	IF	TROYF	PFAF	TF	FB	1.00	006.21	4.76	2500
DUKVE	IF	BIBWY		TF	FB	1.00	322.37	9.51	3000
BIBWY		TROYF	PFAF	RF	FB	1.00	(2.62 NM RADIUS CW (CFFZC))	2.01	2500
RUPPP	IF	LINOL		TF	FB	1.00	186.33	3.46	4900
LINOL		BIBWY		RF	FB	1.00	(2.62 NM RADIUS CW (CFFZB))	6.22	3000
BRCAT	IF	YOTUL		TF	FB	1.00	186.81	3.22	6000
YOTUL		ZANUN		RF	FB	1.00	(4.34 NM RADIUS CCW (CFFXZ))	6.87	3800
ZANUN		ALALE		RF	FB	1.00	(2.62 NM RADIUS CCW (CFFXW))	1.16	3400
ALALE		TROYF	PFAF	RF	FB	1.00	(2.62 NM RADIUS CCW (CFFXV))	2.96	2500
EFLOV	IF	ALALE		TF	FB	1.00	070.74	8.17	3400
TROYF	PFAF	RW36R	MAP	TF	FO	0.30	006.21	4.86	
RW36R	MAP	1242 MSL		CA			006.21		
1242 MSL		BAIRE		DF	FB	1.00			
BAIRE		MOAKS		TF	FO	1.00	083.30	21.49	3000

QUALITY
29
CHECKED

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT BAIRE AND ON TRACK 083.30 TO MOAKS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)			
2.	PROFILE STARTS AT TROYF								
3.	FAC:	006.21	PFAF:	TROYF	DIST PFAF TO MAP:		DIST PFAF TO THLD:		
4.	MIN ALT:	TROYF 2500							
5.	DIST TO THLD FROM PFAF:	4.86	MM:	IM:	150 HAT:	346 HAT:	0.91	GS ANT:	
6.	MIN GP INCPT:	2500	GP ALT AT PFAF:	TROYF 2500		OM:		MM:	IM:
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	55.3	
8.	MSA FROM:	RW36R 3000							

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM ALALE, BIBWY, LINOL, OR YOTUL: RF.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14°C OR ABOVE 54°C.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.16 ALL CATS VISIBILITY TO RVR 5500 AND RNP 0.30 ALL CATS VISIBILITY TO RVR 6000.
CHART SPEED ICON IN PLANVIEW AT KYKAT: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT LAPER: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT BIBWY: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT RUPPP: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT BRCAT: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT ALALE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 060.59 INBOUND.
CHART AT OR ABOVE 7000 AT KYKAT.
CHART MANDATORY 8000 AT SPOOD.
CHART MANDATORY 8000 AT DAWGY.
CHART MANDATORY 8000 AT FECTA.
CHART MANDATORY 6000 AT RUPPP.
CHART MANDATORY 6000 AT BRCAT.



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
AUTHORIZATION REQUIRED															
RNP 0.16 DA	1242	3000	346	1242	3000	346	1242	3000	346	1242	3000	346			
RNP 0.30 DA	1308	4000	412	1308	4000	412	1308	4000	412	1308	4000	412			

CHANGES - REASONS

1. TERMINAL ROUTES DELETED FEEDER FROM FLM VDME AND DARKS WHILE ADDING TERMINAL ROUTE ENTRIES FROM FECTA, KYKAT, RUPPP, BRCAT, SPOOD, AND DAWGY - PBN AND FPT REQUEST IN COOPERATION WITH ATC TO SUPPORT TRAFFIC FLOW.
2. TERMINAL ROUTES NUYLI TO LAPER DISTANCE CHANGED FROM 3.14 TO 3.20 - NUYLI AND LAPER MOVED.
3. TERMINAL ROUTES IF NUYLI CHANGED TO INITIAL SDF – PER ATC REQUEST
4. TERMINAL ROUTES LAPER TO TROYF DISTANCE CHANGED FROM 5.02 TO 4.76 - LAPER AND TROYF MOVED.
5. TERMINAL ROUTES INITIAL SDF LAPER CHANGED TO IF – PER ATC REQUEST
6. TERMINAL ROUTES FINAL SEGMENT DISTANCE CHANGED FROM 4.49 TO 4.86 - TROYF MOVED.
7. MISSED APPROACH TERMINAL ROUTE FROM MAP TO BAIRE CHANGED: LEG TYPE FROM TF TO DF; ADDED CA LEG TO 1242 MSL; DELETED COURSE AND DISTANCE - CURRENT PROCEDURE USES RNAV MISSED WHILE PUBLISHING RNP MISSED DOCUMENTATION (COORDINATED WITH FPT AND ATC).
8. TERMINAL ROUTES BAIRE TO MOAKS COURSE AND DISTANCE CHANGED FROM 082.97/21.51 TO 083.30/21.49 - BAIRE MOVED.
9. MISSED APPROACH INSTRUCTIONS CHANGED FROM "CLIMB TO 3000 ON TRACK 006.21 TO BAIRE AND TRACK 082.97 TO MOAKS AND HOLD" TO "CLIMB TO 3000 DIRECT BAIRE AND ON TRACK 083.30 TO MOAKS AND HOLD" - VERBIAGE CHANGED TO SUPPORT RNAV MISSED AND BAIRE MOVED.
10. PROFILE LINE 2 CHANGED FROM "PROFILE STARTS AT NUYLI" TO "PROFILE STARTS AT TROYF" - COMMON POINT FOR ALL NEWLY ADDED ENTRY SEGMENTS.
11. PROFILE LINE 4 CHANGED FROM "NUYLI 5000, LAPER 4000, TROYF 2400" TO "TROYF 2500" - FAF RAISED.
12. PROFILE LINE 5 CHANGED FROM PFAF: 4.49 TO PFAF: 4.86 AND 433 HAT: 1.19 TO 346 HAT: 0.91 - TROYF MOVED AND LOWER MINS REQUESTED BY FPT AND NEW 0.16 RNP MINS.
13. PROFILE LINE 6 MIN GP INCPY CHANGED FROM 2400 TO 2500 - REQUESTED AFTER MOVING TROYF, FACILITATES 1500 FT AIRSPACE.
14. NOTES DELETED "PROCEDURE NA FOR ARRIVALS AT FLM VOR/DME ON V517 SOUTHEAST BOUND AND V57 NORTHBOUND" - TERMINAL ROUTES REMOVED FROM PROCEDURE.
15. NOTES ADDED PLANVIEW NOTE "SEE PLANVIEW FOR MULTIPLE IF LOCATIONS" - ADDITIONAL INTERMEDIATE ROUTES ADDED TO PROCEDURE.
16. CHANGED MAG/VAR EPOCH YEAR FROM 2020 TO 2025 - MATCH MAG/VAR DATA TABLE.
17. NOTES ADDED AIRSPEED RESTRICTIONS AT KYKAT, BIBWY, NUYLI, ALALE, BRCAT, AND RUPPP - PBN REQUIRED TO FACILITATE NEW ROUTING.
18. MINIMUMS ADDED RNP 0.16 MINIMA CATS A-D - PER PBN AND ATC REQUEST
19. MINIMUMS RNP 0.30 DA/HAT CHANGED FROM 1329/433 TO 1308/412 - PER PBN AND ATC REQUEST TO GET LOWER MINIMA WITH PROCEDURE REDESIGN.
20. NOTES CHANGED FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -17°C OR ABOVE 54°C" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -14C OR ABOVE 54C." – TEMPERATURE CHANGE BASED ON UPDATED ACT.
21. NOTES ADDED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.16 ALL CATS VISIBILITY TO RVR 5500 AND RNP 0.30 ALL CATS VISIBILITY TO RVR 6000." – IAW 8260.19J 8-6-12
22. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT KYKAT: MAX 210 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
23. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT LAPER: MAX 210 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
24. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT BIBWY: MAX 210 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
25. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT BRCAT: MAX 210 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
26. NOTES ADDED "CHART SPEED ICON IN PLANVIEW AT ALALE: MAX 210 KIAS" - PBN REQUIRED TO FACILITATE NEW ROUTING IAW 8260.19J 4-6-10
27. ADDITIONAL FLIGHT DATA "CHART MANDATORY 8000 AT SPOOD" - PBN REQUIRED TO FACILITATE NEW ROUTING
28. ADDITIONAL FLIGHT DATA "CHART MANDATORY 8000 AT DAWGY" - PBN REQUIRED TO FACILITATE NEW ROUTING
29. ADDITIONAL FLIGHT DATA "CHART MANDATORY 8000 AT FECTA" - PBN REQUIRED TO FACILITATE NEW ROUTING
30. ADDITIONAL FLIGHT DATA "CHART MANDATORY 6000 AT RUPPP" - PBN REQUIRED TO FACILITATE NEW ROUTING
31. ADDITIONAL FLIGHT DATA "CHART MANDATORY 6000 AT BRCAT" - PBN REQUIRED TO FACILITATE NEW ROUTING
32. ADDITIONAL FLIGHT DATA ADDED "CHART AT OR ABOVE 7000 AT KYKAT" - PBN REQUIRED TO FACILITATE NEW ROUTING
33. PBN REQUIREMENTS NOTE CHANGED FROM "RNP AR APCH - GPS" TO "RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM ALALE, BIBWY, LINOL, OR YOTUL: RF." - IAW 8260.19J 8-6-8 IMPLEMENTATION LETTER



COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

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

FLIGHT CHECKED BY

ERIC L GEYER

Digitally signed by

ROBERT G HAMILTON

Mar 03, 2025

OFFICE

AJF

DATE

02/26/2025

DEVELOPED BY

CHARLES HIRST

Digitally signed by

CHARLES HIRST

Nov 06, 2024

OFFICE

AJV-A431

DATE

09/13/2024

APPROVED BY

ERIC N SUSKI

Digitally signed by

ROBERT G HAMILTON

Mar 03, 2025

OFFICE

AJV-A431

DATE

TITLE

MANAGER

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 (RNP) Z RWY 36R	1	COVINGTON	KY	896	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
KYKAT

TO
SNPPR

RNP 1.00 DISTANCE 3.20 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 (21-001178)	384330.00N/0843829.00W	1201	500	125	5E	1000				AC125 AT3674	6000
TERRAIN	384233.00N/0843621.00W	951 (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
SNPPR

TO
NUYLI

RNP 1.00 DISTANCE 3.20 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 (21-001744)	384546.64N/0843625.12W	1265	50	20	2C	1000				AC20 AT2715	5000
TERRAIN	384548.00N/0843624.00W	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

NUYLI

TO

LAPER

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	3.20										
<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 (21-001270)	385158.23N/0843754.80W	1174	500	125	5E	500				AC125 AT2201	4000
TERRAIN	384906.00N/0843627.00W	941 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

SPOOD

TO

BASJA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	10.17										
<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 (21-022430)	384119.00N/0843507.00W	1437	50	3	2A	1000				AC3 AT2160	4600
TERRAIN	383945.00N/0843445.00W	994 (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

BASJA

TO

LAPER

<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 (21-001270)	385158.23N/0843754.80W	1174	500	125	5E	1000				AC125 AT1701	4000
TERRAIN	385215.00N/0843645.00W	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

FROM

DAWGY

TO

DUKVE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	6.20										
<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 (21-001446)	384912.00N/0842854.00W	1076	500	125	5E	1000				AC125 AT3799	6000
TERRAIN	384357.00N/0842421.00W	905 (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

FECTA

TO

EFLOV

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	7.69										
<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 (18-000875)	385212.00N/0845100.00W	1212	500	50	5D	1000				AC50 AT3738	6000
TERRAIN	385154.00N/0845133.00W	895 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

LAPER

TO

TROYF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	4.76										
<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 (21-001270)	385158.23N/0843754.80W	1174	500	125	5E	500				AC125	1800
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:

INTERMEDIATE

FROM

DUKVE

TO

BIBWY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	9.51										
<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 (21-020006)	385146.20N/0843733.90W	1144	500	125	5E	500				AC125 AT1231	3000
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:

INTERMEDIATE: STEPDOWN

FROM

BIBWY

TO

TROYF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	2.01										
<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 (21-001861)	385531.63N/0843727.95W	1249	20	3	1A	500				AC3	1800
TERRAIN	385533.00N/0843757.00W	958 (1000)								AS1500	2500

COMPUTATIONS

RF SEGMENT

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

BIBWY-TROYF

3002

210

225.29

2105.87

35.22

2.62

20.68

0

0

(CFFZC)/2.01 NM

SEGMENT REMARKS:

INTERMEDIATE

FROM

RUPPP

TO

LINOL

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	3.46										
<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 (21-000886)	385547.00N/0843325.00W	1185	500	125	5E	500				AC125 AT3090	4900
TERRAIN	385809.00N/0843033.00W	908 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

LINOL

TO

BIBWY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	6.22										
<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 (21-000886)	385547.00N/0843325.00W	1185	500	125	5E	500				AC125 AT1190	3000
TERRAIN	385312.00N/0843627.00W	971 (1000)								AS1500	2500

COMPUTATIONS

RF SEGMENT

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

LINOL-BIBWY

4900

210

231.89

4003.9

21.18

2.62

19.61

0

0

(CFFZB)/6.22 NM

SEGMENT REMARKS:

INTERMEDIATE

FROM

BRCAT

TO

YOTUL

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	3.22										
<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 (21-020422)	390026.84N/0844600.35W	1180	50	20	2C	500				AC20 AT4300	6000
TERRAIN	390000.00N/0844654.00W	902 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

YOTUL

TO

ZANUN

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	6.87										
<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 (21-000678)	385224.00N/0844221.00W	1077	500	125	5E	500				AC125 AT2098	3800
TERRAIN	385615.00N/0844312.00W	908 (900)								AS1500	2400

COMPUTATIONS

RF SEGMENT

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

YOTUL-ZANUN

6000

210

235.85

5103.9

41.89

4.34

14.51

0

0

(CFFXZ)/6.87 NM

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

ZANUN

TO

ALALE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	1.16				

<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 (21-061869)	385602.87N/0844104.46W	1119	250	125	4E	500				AC125 AT1656	3400
TERRAIN	385612.00N/0844148.00W	908 (900)								AS1500	2400

COMPUTATIONS

RF SEGMENT

ZANUN-ALALE

ALT

3800

KIAS

210

KTAS

228.03

HAA

2903.9

VKTW

43.07

TR

2.62

BA

22.23

DTA

0

COURSE CHANGE

0

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFFXW)/1.16 NM

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

ALALE

TO

TROYF

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	2.96				

<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 (21-001861)	385531.63N/0843727.95W	1249	20	3	1A	500				AC3	1800
TERRAIN	385533.00N/0843757.00W	958 (1000)								AS1500	2500

COMPUTATIONS

RF SEGMENT

ALALE-TROYF

ALT

3400

KIAS

210

KTAS

226.65

HAA

2503.9

VKTW

43.43

TR

2.62

BA

22.09

DTA

0

COURSE CHANGE

0

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFFXV)/2.96 NM

SEGMENT REMARKS:

INTERMEDIATE

FROM

EFLOV

TO

ALALE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
1.00	8.17										
<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 (18-000875)	385212.00N/0845100.00W	1212	500	50	5D	500				AC50 AT1638	3400
TERRAIN	385445.00N/0844112.00W	905 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

TROYF

TO

RW36R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.86		DA				412				
<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	390033.00N/0843803.00W	1029	215	8	4B		21.41:1			AC8	1308

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

TROYF

TO

RW36R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.16	4.86		DA		346						
<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	390112.00N/0843824.00W	1019	215	8	4B		21.44:1			AC8	1242

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

MOAKS

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30-1.00							1147				
<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 (39-001892)	391159.60N/0843121.60W	1849	250	50	4D	1000					2900
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:

MISSSED APPROACH: LEVEL SURFACE

FROM

DA

TO

MOAKS

RNP

0.16-1.00

DISTANCE

PAT

MAP

HAT

HMAS

1081

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TOWER (39-001892)	391159.60N/0843121.60W	1849	250	50	4D	1000					2900
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:

MSA

CENTER

RW36R

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (39-001892)	391159.60N/0843121.60W	035	11.8	1849	250	50	4D	1000		XP151	3000

MSA REMARKS:

RETAIN CURRENT MSA AND MATCH MSA FOR OTHER IAPS

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> CVG	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> CVG	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</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, HIRL, TDZ, C/LINE, 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, HIRL, C/LINE, TDZ		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW27 - MALSR, C/LINE, HIRL, 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, TDZ, C/LINE, 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> 3.00	<u>ELEV RWY THRESHOLD</u> 896.1	<u>TCH</u> 55.3	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 70.4
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FINAL APPROACH COURSE AIMING

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

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -14C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -14C	<u>APT ISA</u> +13.23C
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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.

VDP NOT ESTABLISHED - RNP APPROACH.

100 FT VEGETATION USED PER FPT.

APPROVAL LETTERS (2):
KCVG RNAV RNP Z RWY 36R: BRCAT MANDATORY ALTITUDE
KCVG RNAV RNP Z RWY 36R: RUPPP MANDATORY ALTITUDE
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	2.98
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	000.21
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.55
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	000.21
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD COORDINATES (IF STR-IN)	390142.24N/0843848.46W
ARP COORDINATES	390255.82N/0844004.16W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 36R DISTANCE 1.57 NM
FAF COORDINATES	385650.20N/0843849.83W
FIX NAME COORDINATES	

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CHARLES HIRST	AJV-A431	09/13/2024	AERONAUTICAL INFORMATION SPECIALIST

