02/08/2024

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE

GRAPHIC DEPARTURE PROCEDURES (DP)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL Altitudes are minimum altitudes unless otherwise indicated

Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated.

DP NAME						NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	<u>DATED</u>	ACTUAL EFFECTIVE DATE
BNGLE (RNAV)						FIVE	BNGLE5.BNGLE	FOUR	12/10/2015	
TYPE:	OBSTACLE	COPTER	<u>SID</u>	SPECIAL	RNAV					

DP ROUTE DESCRIPTION:

TAKEOFF RWY 9: CLIMB ON HEADING 096.16 TO 1400, THEN DIRECT KINNG, THEN ON TRACK 020.37 TO LUBYI, THEN ON TRACK 006.54 TO BNGLE, THENCE ...

TAKEOFF RWY 18L: CLIMB ON HEADING 186.21 TO INTERCEPT COURSE 171.63 TO LASNG, THEN ON TRACK 108.43 TO CODKO, THEN ON TRACK 042.97 TO JBETH, THEN ON TRACK 019.10 TO FOPAS, THEN ON TRACK 006.02 TO LUBYI, THEN ON TRACK 006.54 TO BNGLE, THENCE ...

TAKEOFF RWY 18C: CLIMB ON HEADING 186.18 TO 1400, THEN DIRECT FLOEE, THEN ON TRACK 264.43 TO MIPIE, THEN ON TRACK 317.10 TO HERMM, THEN ON TRACK 007.38 TO AMMOT, THEN ON TRACK 051.47 TO BNGLE, THENCE ...

TAKEOFF RWY 18R: CLIMB ON HEADING 186.17 TO INTERCEPT COURSE 205.00 TO FANSA, THEN ON TRACK 261.32 TO MIPIE, THEN ON TRACK 317.10 TO HERMM, THEN ON TRACK 007.38 TO AMMOT, THEN ON TRACK 051.47 TO BNGLE, THENCE ...

TAKEOFF RWY 27: CLIMB ON HEADING 276.19 TO 1400, THEN DIRECT BONLE, THEN ON TRACK 359.57 TO MACOD, THEN ON TRACK 061.99 TO BNGLE, THENCE ... TAKEOFF RWY 36L: CLIMB ON HEADING 006.17 TO INTERCEPT COURSE 333.24 TO CIGMA, THEN ON TRACK 017.39 TO DJOHN, THEN ON TRACK 040.24 TO BNGLE, THENCE ... TAKEOFF RWY 36C: CLIMB ON HEADING 006.18 TO INTERCEPT COURSE 328.59 TO CIGMA, THEN ON TRACK 017.39 TO DJOHN, THEN ON TRACK 040.24 TO BNGLE, THENCE ... TAKEOFF RWY 36C: CLIMB ON HEADING 006.18 TO INTERCEPT COURSE 328.59 TO CIGMA, THEN ON TRACK 017.39 TO DJOHN, THEN ON TRACK 040.24 TO BNGLE, THENCE ... TAKEOFF RWY 36R: CLIMB DIRECT HAGSS, THEN ON TRACK 031.04 TO BNGLE, THENCE ...

... TURBOJETS: MAINTAIN 5000, ALL OTHER AIRCRAFT: MAINTAIN 4000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN TEN MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	<u>FROM</u> <u>FIX/NAVAID</u>	<u>TO</u> <u>FIX/NAVAID</u>	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
RIKLE	BNGLE5.RIKLE	BNGLE	RIKLE	TRACK 044.29	21.43	11900	3100	
WWSHR	BNGLE5.WWSHR	BNGLE	RIKLE	TRACK 044.29	21.43	11900	3100	
		RIKLE	WWSHR	TRACK 051.55	131.05	FL180	3000	

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

PROCEDURAL DATA NOTES:

NOTE: INCREASE SPEED TO 250 KIAS UNTIL REACHING/LEAVING 10,000 FEET. IF UNABLE, ADVISE ATC. NOTE: IF UNABLE TO ACCEPT CLIMB RATES, ADVISE ATC ON INITIAL CONTACT. NOTE: TRANSPONDER CODE WILL BE ISSUED VIA PDC OR CINCINNATI CLNC DEL.

TAKEOFF MINIMUMS:

RWY 9, 18L, 18R, 27, 36L, 36C, 36R: STANDARD RWY 18C: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1400

TAKEOFF OBSTACLES NOTES:

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

CONTROLLING OBSTACLES:



NFDD No. 027		02/08/2024			23					
DP NAME BNGLE (RNAV)	NUMBER FIVE	DP COMPUTER CODE BNGLE5.BNGLE	SUPERSEDED NUMBER FOUR	<u>DATED</u> 12/10/2015	ACTUAL EFFECTIVE DATE					
MSA:	TIVE	DNOLLJ.DNOLL	TOOK	12/10/2013						
MSA FROM KCVG 3000										
LOST COMMUNICATIONS PROCEDURES:										
ADDITIONAL FLIGHT DATA: CHART TOP ALTITUDE: (JETS) 5000/(PROPS) 4000 AIRPORT MV: CVG 6W/2020 DME/DME ASSESSMENT: SAT (RNP 2.0). AIRPORTS SERVED:										
AIRPORT ID		CITY			STATE					
KCVG		COVINGTON			KY					
COMMUNICATIONS: CHART: ATIS, TOWER, GND CON, CLNC DEL										
FIXES AND/OR NAVAIDS:										
REMARKS:										
RWY 18C: CLIMB GRADIENT FOR DTA AT DF FIX.		Digitally signed by								
FLIGHT INSPECTED BY SIGNATURE		BEV L BORDY	OFFICE	DATE						
JEFFREY FINDLEY		Feb 05, 2024	FICO	2/2/24						
DEVELOPED BY SIGNATURE		Digitally signed by BEV L BORDY	OFFICE	DATE						
ERIC SUSKI (COLE NESTBITT)		Feb 05, 2024	AJV-A431	<u>DATE</u> 9/18/20203						
				0,10,20200						
APPROVED BY SIGNATURE		Digitally signed by BEV L BORDY	OFFICE	DATE	TITLE					
ERIC SUSKI		Feb 05, 2024	AJV-A430		MANAGER					
REQUIRED EFFECTIVE DATE ROUTINE										
COORDINATED WITH:										
	OTHER: ZID	CVG APP CON, CVG ATCT, A	MGR		NALIT,					
A4A AUPA AOPA APA HAI NBAA OTHER: ZID, CVG APP CON, CVG ATCT, AMGR CHANGES - REASONS: 1. DP ROUTE DESCRIPTION: RWY 9 TRANSITION CREATED FPT/ATC REQUEST AND GRAPHIC DP WORKSHEET AND DISTRO PACKAGE. 20 1. DP ROUTE DESCRIPTION: RWY 9 TRANSITION ONLY): DJB TRANSITION DELETED REMOVAL OF GROUND-BASED NAVAIDS FROM PROCEDURE IAW FPT/ATC REQUEST AND GRAPHIC DP WORKSHEET AND DISTRO PACKAGE. 20 3. TRANSITION ROUTES (GRAPHIC DEPICTION ONLY): DJB TRANSITION DELETED REMOVAL OF GROUND-BASED NAVAIDS FROM PROCEDURE IAW FPT/ATC REQUEST AND GRAPHIC DP WORKSHEET AND DISTRO PACKAGE. 3. TRANSITION ROUTES (GRAPHIC DEPICTION ONLY): WWSHR TRANSITION CREATED REMOVAL OF GROUND-BASED NAVAIDS FROM PROCEDURE IAW FPT/ATC REQUEST AND GRAPHIC DP WORKSHEET AND DISTRO PACKAGE. 3. TRANSITION ROUTES (GRAPHIC DEPICTION ONLY): WWSHR TRANSITION CREATED REMOVAL OF GROUND-BASED NAVAIDS FROM PROCEDURE IAW FPT/ATC REQUEST AND GRAPHIC DP WORKSHEET AND DISTRO PACKAGE. 4. DP COMPUTER CODE: CHANGED FROM BNGLE4.BNGLE TO BNGLE5.BNGLE - IAW 8260.46J. 5. DP ROUTE DESCRIPTION: CHANGED TAKEOFF RWY 18L FROM "TAKEOFF RWY 18L: CLIMB HEADING 184.21 TO INTERCEPT COURSE 168.37 TO CAMUM, THEN ON DEPICTED ROUTE TO BNGLE, THENCE," TO "TAKEOFF RWY 18L: CLIMB ON HEADING 186.21 TO INTERCEPT COURSE 171.63 TO LASNG, THEN ON TRACK 108.43 TO CODKO, THEN ON TRACK 042.97 TO JBETH, THEN ON TRACK 019.10 TO FOPAS, THEN ON TRACK 006.02 TO LUBYI, THEN ON TRACK 006.54 TO BNGLE, THENCE," - PT/ATC REQUEST AND GRAPHIC DP WORKSHEET AND DISTRO PACKAGE.										

NFDD No. 027		02/08/2024			24
DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
BNGLE (RNAV)	FIVE	BNGLE5.BNGLE	FOUR	12/10/2015	21 MAR 2024
 6. DP ROUTE DESCRIPTION: CHANGED TAKEOFF RWY 18C FROM "TAKEOFF "TAKEOFF RWY 18C: CLIMB ON HEADING 186.21 TO INTERCEPT COURSE 17 FOPAS, THEN ON TRACK 006.02 TO LUBYI, THEN ON TRACK 006.54 TO BNG 7. DP ROUTE DESCRIPTION: CHANGED TAKEOFF RWY 18R FROM "TAKEOFF THENCE" TO "TAKEOFF RWY 18R: CLIMB ON HEADING 186.17 TO INTERCE 007.38 TO AMMOT, THEN ON TRACK 051.47 TO BNGLE, THENCE" + PPTIAT 8. DP ROUTE DESCRIPTION: CHANGED TAKEOFF RWY 27 FROM "TAKEOFF ROUTE TO BNGLE, THENCE" TO "TAKEOFF RWY 27. CLIMB ON HEADING 2 - FPT/ATC REQUEST AND GRAPHIC DP WORKSHEET AND DISTRO PACKAGE 9. DP ROUTE DESCRIPTION: CHANGED TAKEOFF RWY 36R FROM "TAKEOFF "TAKEOFF RWY 36R: CLIMB DIRECT HAGSS, THEN ON TRACK 031.04 TO BN 10. DP ROUTE DESCRIPTION: CHANGED TAKEOFF RWY 36C FROM "TAKEOFT THENCE" TO "TAKEOFF RWY 36C CLIMB ON HEADING 006.18 TO INTERCE ATC REQUEST AND GRAPHIC DP WORKSHEET AND DISTRO PACKAGE. 11. DP ROUTE DESCRIPTION: CHANGED TAKEOFF RWY 36L FROM "TAKEOFT THENCE" TO "TAKEOFF RWY 36L: CLIMB ON HEADING 006.17 TO INTERCE ATC REQUEST AND GRAPHIC DP WORKSHEET AND DISTRO PACKAGE. 12. DP ROUTE DESCRIPTION THENCE INSTRUCTIONS CHANGED FROM "" WITHIN 10 MINUTES AFTER DEPARTURE." TO "TURBOJETS: MAINTAIN 5000 DEPARTURE." - FPT/ATC REQUEST AND GRAPHIC DP WORKSHEET AND DISTRO PACKAGE. 13. DRYER TRANSITION NAME CHANGED FROM "RMY P. NA-ATC. RWY 18.18C, ''''''''''''''''''''''''''''''''''''	71.63 TO LASNO LE, THENCE' F RWY 18R: CL EPT COURSE 2 'C REQUEST AI RWY 27: CLIME 276.19 TO 1400 E. F RWY 36R: CL IGLE, THENCE FF RWY 36C: C EPT COURSE 3 FF RWY 36L: CL EPT COURSE 3 TURBO JET AIR , ALL OTHER A STRO PACKAGI MPUTER CODE ET AND DISTR AW 8260.46J. DN-GPS EQUIPI RED", "RADAR R ORM 8260.15A, 18R, 27, 36R, 36 1400" - FPT/ATC /AR: KCVG 4W I 250 KIAS, IF UN RN KENTUCKY TO MAINTAIN S IEL, DEP CON." IIPIE, DJOHN."	G, THEN ON TRACK 108.43 TC " - FPT/ATC REQUEST AND G IMB HEADING 184.17 TO INTE 202.14 TO FANSA, THEN ON T ND GRAPHIC DP WORKSHEE B HEADING 274.19 TO 1400, T), THEN DIRECT BONLE, THEN IMB HEADING 004.21 TO 1400 " - FPT/ATC REQUEST AND CLIMB HEADING 004.18 TO INT 328.59 TO CIGMA, THEN ON TH CLIMB HEADING 004.17 TO INTI 33.24 TO CIGMA, THEN ON TH CRAFT MAINTAIN 6000, ALL C IRCRAFT: OP ALTITUDE SEPARATION FROM RNP-AR A TO "CHART: ATIS, TOWER, G - NO LONGER REQUIRED ALL	2 CODKO, THEN ON TRACK 042 RAPHIC DP WORKSHEET AND ERCEPT COURSE 203.10 TO FA RACK 261.32 TO MIPIE, THEN C T AND DISTRO PACKAGE. HEN DIRECT BONLE, THEN RIC NON TRACK 359.57 TO MACOD O, THEN DIRECT HAGSS, THEN GRAPHIC DP WORKSHEET AN TERCEPT COURSE 325.30 TO C RACK 017.39 TO DJOHN, THEN ERCEPT COURSE 325.32 TO CL RACK 017.39 TO DJOHN, THEN OTHER AIRCRAFT MAINTAIN 40 SPECT CLEARANCE TO FILED A DJB" TO "BNGLE5.WWSHR", AN 6J. OTHES MOVED TO NEW SECTIC BSTACLE DEPARTURE PROCE NIMUM CLIMB OF 500 FT PER N P WORKSHEET AND DISTRO P, RT MV: CVG 6W/2020." - IAW ME ED NOTE ADDED TO PROCEDU E: (JETS) 6000 / (PROPS) 4000." APPROACHES IAW GRAPHIC D IND CON, CLNC DEL" - REMOVE	2.97 TO JBETH, THE DISTRO PACKAGE. NSA, THEN ON DEP ON TRACK 317.10 TO GHT TURN DIRECT / , THEN ON TRACK 0 D DEPICTED ROU D DISTRO PACKAGI CIGMA, THEN ON DEF ON TRACK 040.24 T ON TRACK 040.24 T ON TRACK 040.24 T ON TRACK 040.24 T ON TRACK 040.24 T DOO. EXPECT CLEAF ALTITUDE WITHIN THE DOI. EXPECT CLEAF ALTITUDE WITHIN THE DOI TO TAKEN AND A DOI TO TAKEN AND A DI TO TAKEN AND A DE CON AND A N DP ROUTE	EN ON TRACK 019.10 TO PICTED ROUTE TO BNGLE, O HERMM, THEN ON TRACK AMMOT, THEN ON DEPICTED 061.99 TO BNGLE, THENCE" JTE TO BNGLE, THENCE" TO E. EPICTED ROUTE TO BNGLE, TO BNGLE, THENCE" - FPT/ PICTED ROUTE TO BNGLE, TO BNGLE, THENCE" - FPT/ RANCE TO FILED ALTITUDE EN MINUTES AFTER DME SEGMENT CHANGED AW 8260.46J. W 8260.46J. W 8260.46J. W 8260.46J. W 8260.46J. W 8260.46J. W 8260.46J. W 9, 18L, 18R, 27, 36L, 36C, LUATION. DN. LTITUDE: (JETS) 5000/(PROPS) D DISTRO PACKAGE.
12/12/2023: THIS IS AN UPDATED COPY FOR THE FORM DEVELOPED ON 09					
1. DP ROUTE DESCRIPTION: CHANGED FROM 'TAKEOFF RWY 18R: CLIMB O	IN HEADING 18	30.17 TO INTERCEPT COURSE	202.14 TO FANSA," TO "TAKE	JEF RWY 18R: CLIM	IB ON HEADING 186.17 TO

INTERCEPT COURSE 205.00 TO FANSA,"

NFDD No. 027

02/08/2024

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE DEPARTURE (DATA RECORD)

DP NAME BNGLE (RNAV)						NUMBER FIVE	DP COMPUTER CODE BNGLE5.BNGLE	SUF	PERSEDED NUMBER FOUR	DATED 12/10/2015	ACTUAL EFFECTIVE DATE 21 MAR 2024
FIX/NAVAID	LAT/LONG	<u>c</u>	FO/FB	LEG TYPE	<u>TC</u>	<u>DIST</u> (NM)	ALTITUDE	SPEED		REMARKS	
RW09 (AER)	390246.90N/0844142.35W	Ν	-	-	-	-					
1400 MSL	-	-	-	VA	090.16	-	AT/ABOVE 1400				
KINNG	390244.65N/0842906.14W	Y	FB	DF	-	-					
LUBYI	391557.75N/0842444.79W	Y	FB	TF	014.37	13.63					
BNGLE	393301.13N/0842432.27W	Y	FB	TF	000.54	17.04					
RW18L (AER)	390321.08N/0843848.00W	N	-	-	-	-					
-	390042.17N/0843848.74W	-	-	VI	180.21	2.65					
LASNG	385725.17N/0843744.05W	Y	FB	CF	165.63	3.39					
СОДКО	385604.95N/0842959.38W	Y	FB	TF	102.43	6.19					
JBETH	385954.99N/0842617.41W	Y	FB	TF	036.97	4.80					
FOPAS	390504.20N/0842445.09W	Y	FB	TF	013.10	5.29					
LUBYI	391557.75N/0842444.79W	Y	FB	TF	000.02	10.88					
BNGLE	393301.13N/0842432.27W	Y	FB	TF	000.54	17.04					
RW18C (AER)	390353.07N/0844007.02W	N	-	-	-	-					
1400 MSL	-	-	-	VA	180.18	-	AT/ABOVE 1400			CG 500 FT/NM TO 1	400
FLOEE	385724.12N/0844008.60W	Y	FB	DF	-	-					
MIPIE	385600.61N/0844848.81W	Y	FB	TF	258.43	6.91					
HERMM	385844.92N/0845250.25W	Y	FB	TF	311.10	4.16					
AMMOT	391149.88N/0845226.01W	Y	FB	TF	001.38	13.07					
BNGLE	393301.13N/0842432.27W	Y	FB	TF	045.47	30.27					OVAL /7_
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NFDD No. 027							02/08/2024			26
DP NAME BNGLE (RNAV)						NUMBER FIVE	DP COMPUTER CODE BNGLE5.BNGLE	SUPERSEDED NUMBER FOUR	<u>DATED</u> 12/10/2015	ACTUAL EFFECTIVE DATE
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	LEG TYPE	<u>TC</u>	<u>DIST</u> (NM)	ALTITUDE	SPEED	REMARKS	
RW18R (AER)	390415.17N/0844101.46W	Ν	-	-	-	-				
-	390108.57N/0844102.17W	-	-	VI	180.17	3.11				
FANSA	385715.14N/0844245.21W	Y	FB	CF	199.00	4.11				
MIPIE	385600.61N/0844848.81W	Y	FB	TF	255.32	4.89				
HERMM	385844.92N/0845250.25W	Y	FB	TF	311.10	4.16				
AMMOT	391149.88N/0845226.01W	Y	FB	TF	001.38	13.07				
BNGLE	393301.13N/0842432.27W	Y	FB	TF	045.47	30.87				
RW27 (AER)	390246.54N/0843910.24W	Ν	-	-	-	-				
1400 MSL	-	-	-	VA	270.19	-	AT/ABOVE 1400			
BONLE	390245.57N/0845135.55W	Y	FO	DF	-	-				
MACOD	391748.47N/0845346.42W	Y	FB	TF	353.57	15.13				
BNGLE	393301.13N/0842432.27W	Y	FB	TF	055.99	27.28				
RW36L (AER)	390256.10N/0844101.76W	Ν	-	-	-	-				
-	390518.99N/0844101.21W	-	-	VI	000.17	2.38				
CIGMA	390842.01N/0844348.81W	Y	FB	CF	327.24	4.02				
DJOHN	391207.47N/0844255.60W	Y	FB	TF	011.39	3.49				
BNGLE	393301.13N/0842432.27W	Y	FB	TF	034.24	25.28				
RW36C (AER)	390204.36N/0844007.47W	Ν	-	-	-	-				
-	390455.70N/0844006.77W	-	-	VI	000.18	2.85				
CIGMA	390842.01N/0844348.81W	Y	FB	CF	322.59	4.74				20
										HECKE

NFDD No. 027							02/08/2024			27
DP NAME						NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
BNGLE (RNAV)						FIVE	BNGLE5.BNGLE	FOUR	12/10/2015	21 MAR 2024
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	<u>LEG</u> TYPE	<u>TC</u>	<u>DIST</u> (NM)	ALTITUDE	SPEED	REMARKS	
DJOHN	391207.47N/0844255.60W	Y	FB	TF	011.39	3.49				
BNGLE	393301.13N/0842432.27W	Y	FB	TF	034.24	25.28				
RW36R (AER)	390142.24N/0843848.46W	Ν	-	-	-	-				
HAGSS	390924.37N/0843847.85W	Y	FO	DF	-	7.70				
BNGLE	393301.13N/0842432.27W	Y	FB	TF	025.04	26.06				
BNGLE	393301.13N/0842432.27W	Y	-	IF	-	-			BNGLE5.WWSH	R
RIKLE	394950.00N/0840718.00W	Y	FB	TF	038.29	21.43				
WWSHR	412034.09N/0820305.76W	Y	FB	TF	045.55	131.05				
BNGLE	393301.13N/0842432.27W	Y	-	IF	-	-			BNGLE5.RIKLE	
RIKLE	394950.00N/0840718.00W	Y	FB	TF	038.29	21.43				