

NFDD No 086

05/02/2024

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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 statute miles or feet RVR unless otherwise indicated.

DP NAME

DUKPN

NUMBER

ONE

DP COMPUTER CODE

DUKPN1.DUKPN

SUPERSEDED NUMBER

NONE

DATED

ACTUAL EFFECTIVE DATE

11 JUL 2024

TYPE:

OBSTACLE

COPTER

SID

SPECIAL

RNAV

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DP ROUTE DESCRIPTION:

BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL:

TAKEOFF RWY 10: CLIMB ON HEADING 105.20 TO 644, THEN DIRECT JWALL, THEN RIGHT TURN DIRECT DUKPN TO CROSS AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 15L: CLIMB ON HEADING 155.23 TO 644, THEN LEFT TURN DIRECT DUKPN TO CROSS AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 15R: CLIMB ON HEADING 155.20 TO 644, THEN LEFT TURN DIRECT DUKPN TO CROSS AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 28: CLIMB ON HEADING 285.22 TO 644, THEN DIRECT BOSLY TO CROSS AT OR ABOVE 700 AND AT OR BELOW 230 KIAS, THEN LEFT TURN DIRECT ARWEN TO CROSS BETWEEN 4000 AND 7000 AND AT OR BELOW 230 KIAS, THEN ON TRACK 098.08 TO CROSS DUKPN AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 33L: CLIMB ON HEADING 335.21 TO 644, THEN LEFT TURN DIRECT ARWEN TO CROSS BETWEEN 4000 AND 7000 AND AT OR BELOW 230 KIAS, THEN ON TRACK 098.08 TO CROSS DUKPN AT OR ABOVE 5000, THENCE...

TAKEOFF RWY 33R: CLIMB ON HEADING 335.24 TO 644, THEN LEFT TURN DIRECT ARWEN TO CROSS BETWEEN 4000 AND 7000 AND AT OR BELOW 230 KIAS, THEN ON TRACK 098.08 TO CROSS DUKPN AT OR ABOVE 5000, THENCE...

...THEN ON ASSIGNED TRANSITION. MAINTAIN 14000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
AJGON	DUKPN1.AJGON	DUKPN	WINNY	TRACK 119.82	10.23	3000	1400	
		WINNY	PLOOP	TRACK 097.29	5.08	4000	1300	PLOOP AT/ABOVE 13000
		PLOOP	AGARD	TRACK 097.29	3.39	4000	1400	
		AGARD	DONIL	TRACK 097.60	35.78	4000	1600	
		DONIL	AJGON	TRACK 062.74	83.25	4000	2100	
BROSS	DUKPN1.BROSS	DUKPN	SWANN	TRACK 081.83	11.31	3000	1400	
		SWANN	HIFLY	TRACK 092.60	7.18	4000	1400	HIFLY AT/ABOVE 13000
		HIFLY	BROSS	TRACK 092.60	9.25	4000	1500	
BYEDN	DUKPN1.BYEDN	DUKPN	SWANN	TRACK 081.83	11.31	3000	1400	
		SWANN	KERNO	TRACK 053.28	12.86	4000	1500	
		KERNO	ODESA	TRACK 053.42	14.74	4000	1300	
		ODESA	BYEDN	TRACK 053.54	15.22	4000	1600	

FAA Form 8260-15B (03/23) Supersedes Previous Edition

Electronic Version

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QUALITY
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CHECKED

<u>DP NAME</u>		<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
DUKPN		ONE	DUKPN1.DUKPN	NONE		11 JUL 2024
DONIL	DUKPN1.DONIL	DUKPN	WINNY	TRACK 119.82	10.23	3000 1400
		WINNY	PLOOP	TRACK 097.29	5.08	4000 1300 PLOOP AT/ABOVE 13000
		PLOOP	AGARD	TRACK 097.29	3.39	4000 1400
		AGARD	SPEAK	TRACK 097.60	15.15	4000 1500
		SPEAK	DONIL	TRACK 097.80	20.63	4000 1600
RADAM	DUKPN1.RADAM	DUKPN	WINNY	TRACK 119.82	10.23	3000 1400
		WINNY	PLOOP	TRACK 097.29	5.08	4000 1300 PLOOP AT/ABOVE 13000
		PLOOP	AGARD	TRACK 097.29	3.39	4000 1400
		AGARD	SPEAK	TRACK 097.60	15.15	4000 1500
		SPEAK	DONIL	TRACK 097.80	20.63	4000 1600
		DONIL	RADAM	TRACK 066.95	39.57	4000 1600
SPEAK	DUKPN1.SPEAK	DUKPN	WINNY	TRACK 119.82	10.23	3000 1400
		WINNY	PLOOP	TRACK 097.29	5.08	4000 1300 PLOOP AT/ABOVE 13000
		PLOOP	AGARD	TRACK 097.29	3.39	4000 1400
		AGARD	SPEAK	TRACK 097.60	15.15	4000 1500
SWANN	DUKPN1.SWANN	DUKPN	SWANN	TRACK 081.83	11.31	3000 1400

PBN REQUIREMENT NOTES:

RNAV 1-DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY.

TAKEOFF MINIMUMS:

RWY 10, 15L, 15R, 28, 33L, 33R: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 644.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

MSA:
MSA FROM KBWI 2600

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:
AIRPORT MV: BWI 11W/2000
DME/DME ASSESSMENT: SAT (RNP 2.0)
CHART SPEED ICON: MAXIMUM SPEED 230 KIAS AT BOSLY.
CHART SPEED ICON: MAXIMUM SPEED 230 KIAS AT ARWEN.
BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL - CHART: TOP ALTITUDE: 14000.

AIRPORTS SERVED:		
AIRPORT ID	CITY	STATE
KBWI	BALTIMORE	MD

COMMUNICATIONS:
CHART: ATIS, CLCN DEL, GND CON, TOWER, ASOS

FIXES AND/OR NAVAIDS:

REMARKS:
KBWI, ALL RWYS LNAV ENGAGEMENT OF 500 FT/NM CLIMB GRADIENT REQUIRED FOR EARLY TURN TO ACCOMODATE AIRSPACE CONTRAINTS AND NOISE ABATEMENT REQUIREMENTS.

APPROVAL LETTERS ON FILE FOR EXCESSIVE ATC CG TO REACH PLOOP AT 13000 (ALL RWYS).

APPROVAL LETTER ON FILE FOR EXCESSIVE ATC CG TO REACH ARWEN AT 4000 (RWY 28).

MEAS WERE DEVELOPED BY ATC DURING FULL WORKGROUP PROCEDURE DESIGN MEETINGS AND COORDINATED WITH ATC AND THE MARYLAND AVIATION AUTHORITY TO COMPLY WITH ENVIRONMENTAL FACTORS. ATC REQUESTS NO CHANGE TO CURRENT MEAS WHERE APPLICABLE.

FLIGHT INSPECTED BY	SIGNATURE	OFFICE	DATE	
MICHAEL G CAMPBELL	<i>Digitally signed by</i> ALLAN WILL Apr 29, 2024	FPO	04/25/2024	
DEVELOPED BY	SIGNATURE	OFFICE	DATE	
PHIL BRANDENBURG	<i>Digitally signed by</i> PHILLIP BRANDENBURG Mar 06, 2024	AJV-A423	10/30/2023	
APPROVED BY	SIGNATURE	OFFICE	DATE	TITLE
ALLAN WILL	<i>Digitally signed by</i> ALLAN WILL Apr 29, 2024	AJV-A423		MANAGER
REQUIRED EFFECTIVE DATE				
ROUTINE				

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZDC, POTOMAC DEP CON, BWI ATCT, MTN ATCT, AMGR(S).



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
DUKPN	ONE	DUKPN1.DUKPN	NONE		11 JUL 2024

CHANGES - REASONS:
ORIGINAL.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
DUKPN		ONE		DUKPN1.DUKPN		NONE			11 JUL 2024
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW10 (AER)*	391028.69N/0764115.66W*	N	-	-	-	-			*DISPL THLD (550 FT)
644 MSL	-	-	-	VA	094.20	-	AT/ABOVE 644		CG 500 FT PER NM TO 644
JWALL	391014.37N/0763706.68W	Y	FO	DF	-	-			
DUKPN	390523.03N/0762727.82W	Y	FB	DF	-	8.94	AT/ABOVE 5000		RIGHT TURN
RW15L (AER)	391114.54N/0763948.74W	N	-	-	-	-			
644 MSL	-	-	-	VA	144.23	-	AT/ABOVE 644		CG 500 FT PER NM TO 644
DUKPN	390523.03N/0762727.82W	Y	FB	DF	-	-	AT/ABOVE 5000		LEFT TURN
RW15R (AER)*	391104.89N/0764052.94W*	N	-	-	-	-			*DISPL THLD (301 FT)
644 MSL	-	-	-	VA	144.20	-	AT/ABOVE 644		CG 500 FT PER NM TO 644
DUKPN	390523.03N/0762727.82W	Y	FB	DF	-	-	AT/ABOVE 5000		LEFT TURN
RW28 (AER)*	391021.98N/0763918.49W*	N	-	-	-	-			*DISPL THLD (700 FT)
644 MSL	-	-	-	VA	274.22	-	AT/ABOVE 644		CG 500 FT PER NM TO 644
BOSLY	391036.65N/0764331.32W	Y	FO	DF	-	-	AT/ABOVE 700	AT/BELOW 230K	
ARWEN	390452.18N/0764043.73W	Y	FB	DF	-	6.13	4000B7000	AT/BELOW 230K	LEFT TURN
DUKPN	390523.03N/0762727.82W	Y	FB	TF	087.08	10.34	AT/ABOVE 5000		
RW33L (AER)*	390955.14N/0763948.33W*	N	-	-	-	-			*DISPL THLD (500 FT)
644 MSL	-	-	-	VA	324.21	-	AT/ABOVE 644		CG 500 FT PER NM TO 644
ARWEN	390452.18N/0764043.73W	Y	FB	DF	-	-	4000B7000	AT/BELOW 230K	LEFT TURN

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<u>DP NAME</u>							<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
DUKPN							ONE	DUKPN1.DUKPN	NONE		11 JUL 2024
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>		
DUKPN	390523.03N/0762727.82W	Y	FB	TF	087.08	10.34	AT/ABOVE 5000				
RW33R (AER)	391034.45N/0763911.63W	N	-	-	-	-					
644 MSL	-	-	-	VA	324.24	-	AT/ABOVE 644		CG 500 FT PER NM TO 644		
ARWEN	390452.18N/0764043.73W	Y	FB	DF	-	-	4000B7000	AT/BELOW 230K	LEFT TURN		
DUKPN	390523.03N/0762727.82W	Y	FB	TF	087.08	10.34	AT/ABOVE 5000		LEFT TURN		
DUKPN	390523.03N/0762727.82W	Y	-	IF	-	-	AT/ABOVE 5000		DUKPN1.AJGON		
WINNY	390204.23N/0761502.28W	Y	FB	TF	108.82	10.23					
PLOOP	390223.80N/0760831.91W	Y	FB	TF	086.29	5.08	AT/ABOVE 13000				
AGARD	390236.89N/0760411.14W	Y	FB	TF	086.29	3.39					
DONIL	390435.44N/0751818.92W	Y	FB	TF	086.60	35.78					
AJGON	395540.56N/0735321.11W	Y	FB	TF	051.74	83.25					
DUKPN	390523.03N/0762727.82W	Y	-	IF	-	-	AT/ABOVE 5000		DUKPN1.BROSS		
SWANN	390905.28N/0761343.94W	Y	FB	TF	070.83	11.31					
HIFLY	391007.88N/0760436.03W	Y	FB	TF	081.60	7.18	AT/ABOVE 13000				
BROSS	391128.40N/0755249.88W	Y	FB	TF	081.60	9.25					
DUKPN	390523.03N/0762727.82W	Y	-	IF	-	-	AT/ABOVE 5000		DUKPN1.BYEDN		
SWANN	390905.28N/0761343.94W	Y	FB	TF	070.83	11.31					
KERNO	391836.25N/0760234.92W	Y	FB	TF	042.28	12.86					
ODESA	392929.00N/0754944.37W	Y	FB	TF	042.42	14.74					
BYEDN	394041.60N/0753624.84W	Y	FB	TF	042.54	15.22					

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<u>DP NAME</u>							<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
DUKPN							ONE	DUKPN1.DUKPN	NONE		11 JUL 2024
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>		
DUKPN	390523.03N/0762727.82W	Y	-	IF	-	-	AT/ABOVE 5000		DUKPN1.DONIL		
WINNY	390204.23N/0761502.28W	Y	FB	TF	108.82	10.23					
PLOOP	390223.80N/0760831.91W	Y	FB	TF	086.29	5.08	AT/ABOVE 13000				
AGARD	390236.89N/0760411.14W	Y	FB	TF	086.29	3.39					
SPEAK	390329.31N/0754445.94W	Y	FB	TF	086.60	15.15					
DONIL	390435.44N/0751818.92W	Y	FB	TF	086.80	20.63					
DUKPN	390523.03N/0762727.82W	Y	-	IF	-	-	AT/ABOVE 5000		DUKPN1.RADAM		
WINNY	390204.23N/0761502.28W	Y	FB	TF	108.82	10.23					
PLOOP	390223.80N/0760831.91W	Y	FB	TF	086.29	5.08	AT/ABOVE 13000				
AGARD	390236.89N/0760411.14W	Y	FB	TF	086.29	3.39					
SPEAK	390329.31N/0754445.94W	Y	FB	TF	086.60	15.15					
DONIL	390435.44N/0751818.92W	Y	FB	TF	086.80	20.63					
RADAM	392638.20N/0743559.73W	Y	FB	TF	055.95	39.57					
DUKPN	390523.03N/0762727.82W	Y	-	IF	-	-	AT/ABOVE 5000		DUKPN1.SPEAK		
WINNY	390204.23N/0761502.28W	Y	FB	TF	108.82	10.23					
PLOOP	390223.80N/0760831.91W	Y	FB	TF	086.29	5.08	AT/ABOVE 13000				
AGARD	390236.89N/0760411.14W	Y	FB	TF	086.29	3.39					
SPEAK	390329.31N/0754445.94W	Y	FB	TF	086.60	15.15					
DUKPN	390523.03N/0762727.82W	Y	-	IF	-	-	AT/ABOVE 5000		DUKPN1.SWANN		
SWANN	390905.28N/0761343.94W	Y	FB	TF	070.83	11.31					

QUALITY

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