

**U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION**  
**GRAPHIC DEPARTURE PROCEDURE (DP)**

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ARSENAL	FOUR	ARSNL4.CSN	THREE	10 JAN 2013	29 MAY 2014

**TYPE:** SID

**DP ROUTE DESCRIPTION:**

TAKOFF RWY 34L/R: CLIMB HEADING 340.61 TO 800, THEN CLIMBING LEFT TURN ON CSN VORTAC R-056. CROSS SHRLI INT/CSN 10 DME AT 2000, CROSS CSN VORTAC AT 3000. THENCE...

TAKEOFF RWY 16L/R: CLIMB HEADING 160.61 TO 800, THEN CLIMBING RIGHT TURN ON CSN VORTAC R-087, CROSS GADZI/CSN 10 DME AT 2000, CROSS CSN VORTAC AT 3000 THENCE...

... VIA ASSIGNED TRANSITION.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
MARTINSBURG	ARSNL4.MRB	CSN VORTAC	DAWNZ INT/CSN 32.67 DME	010.00 (CSN R-010)	32.67	5000	3400	MAA 17500
		DAWNZ INT/CSN 32.67 DME	MRB VORTAC	360.00 (MRB R-180)	12.12	5000	3400	MAA 17500
WOOLY	ARSNL4.WOOLY	CSN VORTAC	DAWNZ INT/CSN 32.67 DME	010.00 (CSN R-010)	32.67	5000	3400	MAA 17500
		DAWNZ INT/CSN 32.67 DME	MRB VORTAC	360.00 (MRB R-180)	12.12	5000	3400	MAA 17500
		MRB VORTAC	WOOLY INT/MRB 37.89 DME	101.00 (MRB R-101)	37.89	5000	3200	MAA 17500
FLUKY	ARSNL4.FLUKY	CSN VORTAC	FLUKY INT/CSN 10.31 DME	147.51 (CSN R-148)	10.31	3000	2300	MAA 17500
GORDONSVILLE	ARSNL4.GVE	CSN VORTAC	GVE VORTAC	205.93 CSN R-206	39.99	4500	2700	MAA 17500
WITTO	ARSNL4.WITTO	CSN VORTAC	WITTO INT/CSN 30.36 DME	239.27 (CSN R-239)	30.36	6100		MAA 17500

QUALITY  
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CHECKED

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ARSENAL	FOUR			ARSNL4.CSN	THREE			10 JAN 2013	29 MAY 2014
MONTEBELLO	ARSNL4.MOL	CSN VORTAC	MOL VOR/DME	239.27 & 237.50	73.56	6100	5500	MAA 17500	
				CSN R-239 & MOL R-058					
LINDEN	ARSNL4.LDN	CSN VORTAC	LDN VORTAC	314.79	20.45	5000		MAA 17500	
				CSN R-315					

**PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:**

**NOTE:** WITTO TRANSITION IS FOR CHARLOTTESVILLE TRAFFIC. **NOTE:** RWY 16L/R DME REQUIRED. RWY 16L/R STANDARD WITH ATC CLIMB OF 400 FT PER NM TO 800.

**NOTE:** DEPARTING RWY 16L/R REQUIRES EXPEDITIOUS INTERCEPT OF OUTBOUND COURSE TO ENSURE AVOIDANCE R-6608 BOUNDARY.

**TAKEOFF OBSTACLES NOTES:**

**NOTE: RWY 16L,** TREES BEGINNING 1247 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 106 FT AGL/311 FT MSL. TREE 1811 FT FROM DER, 158 FT LEFT OF CENTERLINE, 100 FT AGL/277 FT MSL. TREES BEGINNING 1810 FT FROM DER, 14 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL/303 FT MSL.

**NOTE: RWY 16R,** TREE 749 FT FROM DER, 10 FT LEFT OF CENTERLINE, 23 FT AGL/194 FT MSL. TREE 638 FT FROM DER, 563 FT RIGHT OF CENTERLINE, 67 FT AGL/227 FT MSL. TREES BEGINNING 119 FT FROM DER, 497 FT RIGHT OF CENTERLINE, UP TO 26 FT AGL/195 FT MSL. TREES 980 FT FROM DER, 707 FT RIGHT OF CENTERLINE, UP TO 46 FT AGL/236 FT MSL.

**NOTE: RWY 34R,** VEGETATION AND TREES BEGINNING 29 FT FROM DER, 78 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/197 FT MSL. TREES 518 FROM DER, 596 FT RIGHT OF CENTERLINE, UP TO 29 FT AGL/206 FT MSL. TREES 2903 FT FROM DER, 1102 FT RIGHT OF CENTERLINE, UP TO 80 FT AGL/280 FT MSL. SIGN 70 FT FROM DER, 90 FT RIGHT OF CENTERLINE, 6 FT AGL/190 FT MSL. AIRFIELD LIGHTS BEGINNING 25 FT FROM DER, 94 FT RIGHT OF CENTERLINE, UP TO 5 FT AGL/193 FT MSL. VEHICLE ON ROAD 198 FT FROM DER, 9 FT RIGHT OF CENTERLINE, 15 FT AGL/214 FT MSL.

**NOTE: RWY 34L,** TREES BEGINNING 1154 FT FROM DER, 291 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/283 FT MSL. LIGHT POLES 1164 FT FROM DER, 759 FT LEFT OF CENTERLINE, 57 FT AGL/247 FT MSL. TOWER 3390 FT FROM DER, 1103 FT LEFT OF CENTERLINE, 68 FT AGL/274 FT MSL. BUILDING 2121 FT FROM DER, 328 LEFT OF CENTERLINE, 32 FT AGL/242 FT MSL. TREES 279 FT FROM DER, 130 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/210 FT MSL. TREES BEGINNING 1596 FROM DER, 374 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/233 FT MSL. VEHICLE ON ROAD 279 FT FROM DER, 130 FT RIGHT OF CENTERLINE, 15 FT AGL/210 FT MSL.

**CONTROLLING OBSTACLES:**

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

CHART: R6608 A, B, C, AND DEMO 1, 2, 3 MOA.

CHART: AT SHRLI AND GADZI CROSS AT 2000.

CHART: AT CSN VORTAC: CROSS AT 3000.

CHART: AML VOR/DME R-321 TO DAWNZ INT; LDN VORTAC R-111 TO SHRLI INT.

**NOTE:** RESTRICTED AREA R-6608 5 NM SOUTH OF AIRPORT.



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**AIRPORTS SERVED:**

MANASSAS RGNL/HARRY P. DAVIS FIELD

WASHINGTON D.C.

**COMMUNICATIONS:**

ATIS, POTOMAC CLEARANCE DELIVERY, GROUND CONTROL, MANASSAS TOWER, POTOMAC DEPARTURE CONTROL, AWOS-3.

**FIXES AND/OR NAVAIDS:****REMARKS:**

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**CHANGES:**

1. COURSE FROM CSN VORTAC TO GVE VORTAC CHANGED FROM 205.92 TO 205.93.
2. ADDED NOTE DEPARTING RWY 16L/R REQUIRES EXPEDITIOUS INTERCEPT OF OUTBOUND COURSE TO ENSURE AVOIDANCE R-6608 BOUNDARY.
3. ADDED NOTE RESTRICTED AREA R-6608 5 NM SOUTH OF AIRPORT.

**REASONS:**

1. RECALCULATED COURSE.
- 2,3. ATC AND AOPA REQUEST.

04/10/14  
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[Signature]

## DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ARSENAL	FOUR	ARSNL4.CSN	THREE	10 JAN 2013	29 MAY 2014

ARINC PACKET - 424-18 - SID

NAVAID	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAD	CSN	K6011630VTH	N38382833W077515580			N38382833W077515580W0060004422			NARCASANOVA				
SUSAD	GVE	K6011560VTHA	N38004896W078091089			N38004896W078091089W0060003822			NARGORDONSVILLE				
SUSAD	LDN	K6011430VTL	N38511581W078122000			N38511581W078122000W00600024401			NARLINDEN				
SUSAD	MOL	K6011530VDL	N37540189W079062480			N37540315W079062225W0050034591			NARMONTEBELLO				
SUSAD	MRB	K6011210VTL	N39230806W077505408			N39230806W077505408W0070006001			NARMARTINSBURG				

[illegible][illegible]

TRM	WP	1	2	3	4	5	6	7	8	9	0	1	2	3
		SUSAP	KHEFK6CDAWNZ	K60	R	N39110534W077490006			W0104	NAR	DAWNZ			
		SUSAP	KHEFK6CGADZI	K60	R	N38400171W077391923			W0104	NAR	GADZI			
		SUSAP	KHEFK6CSHRLI	K60	R	N38445408W077420837			W0104	NAR	SHRLI			

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KHEFK6DARSNL41RW16B	010	0	VA	1606	+	00800	18000					
SUSAP	KHEFK6DARSNL41RW16B	020GADZIK6PC0E	R	CFYCSN K6	0870010026700080D		02000						
SUSAP	KHEFK6DARSNL41RW16B	030CSN K6D 0VE		TF			03000						
SUSAP	KHEFK6DARSNL41RW34B	010	0	VA	3406	+	00800	18000					
SUSAP	KHEFK6DARSNL41RW34B	020SHRLIK6PC0E	L	CFYCSN K6	0560010023600030D		02000						
SUSAP	KHEFK6DARSNL41RW34B	030CSN K6D 0VE		TF			03000						
SUSAP	KHEFK6DARSNL43FLUKY	010CSN K6D 0V		IF			03000	18000					
SUSAP	KHEFK6DARSNL43FLUKY	020FLUKYK6EA0EE		TF									
SUSAP	KHEFK6DARSNL43GVE	010CSN K6D 0V		IF			03000	18000					
SUSAP	KHEFK6DARSNL43GVE	020GVE K6D 0VE		TF									
SUSAP	KHEFK6DARSNL43LDN	010CSN K6D 0V		IF			03000	18000					
SUSAP	KHEFK6DARSNL43LDN	020LDN K6D 0VE		TF									
SUSAP	KHEFK6DARSNL43MOL	010CSN K6D 0V		IF			03000	18000					

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SUSAP KHEFK6DARSNL43MOL	020MOL	K6D 0VE	TF		
SUSAP KHEFK6DARSNL43MRB	010CSN	K6D 0V	IF	03000	18000
SUSAP KHEFK6DARSNL43MRB	020DAWNZK6PC0E		TF		
SUSAP KHEFK6DARSNL43MRB	030MRB	K6D 0VE	TF		
SUSAP KHEFK6DARSNL43WITTO	010CSN	K6D 0V	IF	03000	18000
SUSAP KHEFK6DARSNL43WITTO	020WITTOK6EA0EE		TF		
SUSAP KHEFK6DARSNL43WOOLY	010CSN	K6D 0V	IF	03000	18000
SUSAP KHEFK6DARSNL43WOOLY	020DAWNZK6PC0E		TF		
SUSAP KHEFK6DARSNL43WOOLY	030MRB	K6D 0V	TF		
SUSAP KHEFK6DARSNL43WOOLY	040WOOLYK6EA0EE	R	TFY		

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP KHEFK6GRW16L	0062001606	N38433972W077310759-0200											
SUSAP KHEFK6GRW16R	0037151606	N38433615W077311587-0300											
SUSAP KHEFK6GRW34L	0037153406	N38430415W077305286+0300											
SUSAP KHEFK6GRW34R	0062003406	N38424632W077302920+0200											



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ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RW16B		010		VA		FB		160.6()		AA 00800	
	RW16B	GADZI	020		CF	R	FB		267.0()	008.0	AT 02000	
	RW16B	CSN	030		TF		FB				AT 03000	
	RW34B		010		VA		FB		340.6()		AA 00800	
	RW34B	SHRLI	020		CF	L	FB		236.0()	003.0	AT 02000	
	RW34B	CSN	030		TF		FB				AT 03000	
	FLUKY	CSN	010		IF		FB				AT 03000	
	FLUKY	FLUKY	020		TF		FB					
	GVE	CSN	010		IF		FB				AT 03000	
	GVE	GVE	020		TF		FB					
	LDN	CSN	010		IF		FB				AT 03000	
	LDN	LDN	020		TF		FB					
	MOL	CSN	010		IF		FB				AT 03000	
	MOL	MOL	020		TF		FB					
	MRB	CSN	010		IF		FB				AT 03000	
	MRB	DAWNZ	020		TF		FB					
	MRB	MRB	030		TF		FB					
	WITTO	CSN	010		IF		FB				AT 03000	
	WITTO	WITTO	020		TF		FB					
	WOOLY	CSN	010		IF		FB				AT 03000	
	WOOLY	DAWNZ	020		TF		FB					
	WOOLY	MRB	030		TF		FB					
	WOOLY	WOOLY	040		TF	R	FB					

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CSN	N383828.33	W0775155.80	N3838.472	W07751.930
	GVE	N380048.96	W0780910.89	N3800.816	W07809.182
	LDN	N385115.81	W0781220.00	N3851.264	W07812.333
	MOL	N375401.89	W0790624.80	N3754.032	W07906.413
	MRB	N392308.06	W0775054.08	N3923.134	W07750.901
	FLUKY	N383023.20	W0774345.20	N3830.387	W07743.753
	WITTO	N382013.84	W0782251.07	N3820.231	W07822.851
	WOOLY	N392019.18	W0770211.17	N3920.320	W07702.186
	DAWNZ	N391105.34	W0774900.06	N3911.089	W07749.001
	GADZI	N384001.71	W0773919.23	N3840.029	W07739.321
	SHRLI	N384454.08	W0774208.37	N3844.901	W07742.140
	RW16L	N384339.72	W0773107.59	N3843.662	W07731.127
	RW16R	N384336.15	W0773115.87	N3843.603	W07731.265
	RW34L	N384304.15	W0773052.86	N3843.069	W07730.881
	RW34R	N384246.32	W0773029.20	N3842.772	W07730.487

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## RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW16L	00192	58
RW16R	00185	53
RW34L	00175	40
RW34R	00178	40