

**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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date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	FIVE	ARSNL5.CSN	FOUR	05/29/2014	21 JUL 2016

**TYPE:** SID

**DP ROUTE DESCRIPTION:**

TAKEOFF 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	ARSNL5.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	ARSNL5.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	ARSNL5.FLUKY	CSN VORTAC	FLUKY INT/CSN 10.31 DME	147.51 (CSN R-148)	10.31	3000	2300	MAA 17500	
GORDONSVILLE	ARSNL5.GVE	CSN VORTAC	GVE VORTAC	205.93 CSN R-206	39.99	4500	2700	MAA 17500	
WITTO	ARSNL5.WITTO	CSN VORTAC	WITTO INT/CSN 30.36 DME	239.27 (CSN R-239)	30.36	6100		MAA 17500	



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MONTEBELLO	ARSNL5.MOL	CSN VORTAC MOL VOR/DME	239.27 & 237.50 73.56	6100 5500	MAA 17500
LINDEN	ARSNL5.LDN	CSN VORTAC LDN VORTAC	314.79 20.45	5000	MAA 17500

**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, 178 FT LEFT OF CENTERLINE, UP TO 99 FT AGL/268 FT MSL. TREES BEGINNING 1810 FT FROM DER, 88 FT RIGHT OF CENTERLINE, UP TO 73 FT AGL/272 FT MSL. TREES BEGINNING 2618 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 84 FT AGL/293 FT MSL. TREES BEGINNING 3414 FT FROM DER, 14 FT RIGHT OF CENTERLINE, UP TO 75 FT AGL/284 FT MSL. TREES BEGINNING 3703 FT FROM DER, 145 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/299 FT MSL. TREES BEGINNING 4193 FT FROM DER, 1343 FT LEFT OF CENTERLINE, UP TO 82 FT AGL/311 FT MSL. TREES BEGINNING 4677 FT FROM DER, 313 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/303 FT MSL.

**NOTE: RWY 16R,** TREES BEGINNING 119 FT FROM DER, 473 FT RIGHT OF CENTERLINE, UP TO 32 FT AGL/221 FT MSL. TREES BEGINNING 749 FT FROM DER, ON CENTERLINE, UP TO 29 FT AGL/197 FT MSL. TREES BEGINNING 745 FT FROM DER, 85 FT RIGHT OF CENTERLINE, UP TO 33 FT AGL/212 FT MSL. TREES BEGINNING 588 FT FROM DER, 536 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/236 FT MSL.

**NOTE: RWY 34L,** TERRAIN AND SIGN BEGINNING 1 FT FROM DER, 392 FT RIGHT OF CENTERLINE, UP TO 5 FT AGL/192 FT MSL. TREES AND POLES BEGINNING 877 FT FROM DER, 616 FT LEFT OF CENTERLINE, UP TO 54 FT AGL/247 FT MSL. BUILDING AND TREES BEGINNING 1573 FT FROM DER, 249 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/252 FT MSL. TREES BEGINNING 1752 FT FROM DER, 187 FT RIGHT OF CENTERLINE, UP TO 39 FT AGL/238 FT MSL. TOWER AND TREES BEGINNING 2563 FT FROM DER, 182 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/283 FT MSL. TREES BEGINNING 2563 FT FROM DER, 250 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/279 FT MSL.

**NOTE: RWY 34R,** TERRAIN, AIRFIELD LIGHT, AND SIGN BEGINNING 25 FT FROM DER, 92 FT RIGHT OF CENTERLINE, UP TO 7 FT AGL/196 FT MSL. AIRFIELD LIGHT AND VEGETATION BEGINNING 26 FT FROM DER, 78 FT LEFT OF CENTERLINE, UP TO 9 FT AGL/197 FT MSL. VEHICLES ON ROAD AND POLES BEGINNING 518 FT FROM DER, 595 FT RIGHT OF CENTERLINE, UP TO 24 FT AGL/215 FT MSL. TREES BEGINNING 1759 FT FROM DER, 448 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/238 FT MSL. TREES 1859 FT FROM DER, 828 FT RIGHT OF CENTERLINE, UP TO 39 FT AGL/248 FT MSL. TREES BEGINNING 2548 FT FROM DER, 828 FT LEFT OF CENTERLINE, UP TO 54 FT AGL/283 FT MSL. TREES BEGINNING 2653 FT FROM DER, 1082 FT RIGHT OF CENTERLINE, UP TO 57 FT AGL/280 FT MSL.

**CONTROLLING OBSTACLES:**

**LOST COMMUNICATIONS PROCEDURES:**



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**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.**  
**CHART:** TOP ALTITUDE: 3000

**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:**

ADDED CHART: TOP ALTITUDE: 3000

**REASONS:**

ATC REQUEST.



### DEPARTURE (DATA RECORD)

<b>DP Name</b>	<b>Number</b>	<b>DP Computer Code</b>	<b>Superseded Number</b>	<b>Dated</b>	<b>Effective Date</b>
<b>ARSENAL</b>	<b>FIVE</b>	<b>ARSNL5 .CSN</b>	<b>FOUR</b>	<b>05/29/2014</b>	<b>21 JUL 2016</b>

ARINC SUMMARY - KHEF

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
RW16B	010		VA	FB		160.6						AA 00800		
RW16B	020	GADZI	CF	FB		267.0	CSN		R			AT 02000		E
RW16B	030	CSN	TF	FB								AT 03000		VE
RW34B	010		VA	FB		340.6						AA 00800		
RW34B	020	SHRLI	CF	FB		236.0	CSN		L			AT 02000		E
RW34B	030	CSN	TF	FB								AT 03000		VE
FLUKY	010	CSN	IF	FB								AT 03000		V
FLUKY	020	FLUKY	TF	FB										EE
GVE	010	CSN	IF	FB								AT 03000		V
GVE	020	GVE	TF	FB										VE
LDN	010	CSN	IF	FB								AT 03000		V
LDN	020	LDN	TF	FB										VE
MOL	010	CSN	IF	FB								AT 03000		V
MOL	020	MOL	TF	FB										VE
MRB	010	CSN	IF	FB								AT 03000		V
MRB	020	DAWNZ	TF	FB										E
MRB	030	MRB	TF	FB										VE
WITTO	010	CSN	IF	FB								AT 03000		V
WITTO	020	WITTO	TF	FB										EE
WOOLY	010	CSN	IF	FB								AT 03000		V
WOOLY	020	DAWNZ	TF	FB										E
WOOLY	030	MRB	TF	FB										V
WOOLY	040	WOOLY	TF	FB					R					EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
CSN	N383828.33	W0775155.80
GVE	N380048.96	W0780910.89
LDN	N385115.81	W0781220.00
MOL	N375401.89	W0790624.80
MRB	N392308.06	W0775054.08
FLUKY	N383023.20	W0774345.20
WITTO	N382013.84	W0782251.07
WOOLY	N392019.18	W0770211.17
DAWNZ	N391105.34	W0774900.06
GADZI	N384001.71	W0773919.23



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SHRLI                      N384454 . 08                      W0774208 . 37

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW16L	N384339 . 72	W0773107 . 59	00192
RW16R	N384336 . 15	W0773115 . 87	00185
RW34L	N384304 . 15	W0773052 . 86	00175
RW34R	N384246 . 32	W0773029 . 20	00178

QUALITY  
15  
CHECKED