

**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.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
COLIN	EIGHT	COLIN8.COLIN	SEVEN	06/22/2017	19 JUL 2018
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 2: CLIMB HEADING 023.46 TO 687, THEN CLIMBING RIGHT TURN HEADING 061.00 TO INTERCEPT RIC VORTAC R-049.87 TO COLIN INT/RIC 47.49 DME, THENCE...

TAKEOFF RWY 16: CLIMB HEADING 157.46 TO 687, THEN CLIMBING LEFT TURN HEADING 121.00 TO CROSS RIC VORTAC 7.00 DME AT OR ABOVE 4000, THEN CLIMBING LEFT TURN HEADING 041.00 TO INTERCEPT RIC VORTAC R-074.00 TO MODEL INT/RIC 33.00 DME, THEN ON HCM VORTAC R-010.00 TO COLIN INT/HCM 39.00 DME, THENCE...

TAKEOFF RWY 20: CLIMB HEADING 203.47 TO 687, THEN CLIMBING LEFT TURN HEADING 121.00 TO CROSS RIC VORTAC 7.00 DME AT OR ABOVE 4000, THEN CLIMBING LEFT TURN HEADING 041.00 TO INTERCEPT RIC VORTAC R-074.00 TO MODEL INT/RIC 33.00 DME, THEN ON HCM VORTAC R-010.00 TO COLIN INT/HCM 39.00 DME, THENCE...

TAKEOFF RWY 34: CLIMB HEADING 337.47 TO 687, THEN CLIMBING RIGHT TURN HEADING 061.00 TO INTERCEPT RIC VORTAC R-049.87 TO COLIN INT/RIC 47.49 DME, THENCE...

... MAINTAIN 5000 OR ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE WITHIN TEN MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
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PROCEDURAL DATA NOTES:

NOTE: DME REQUIRED.

NOTE: RADAR REQUIRED.

TAKEOFF MINIMUMS:

TAKEOFF RWY 2, 16, 20, 34 STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 687.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 2: BUSHES 104 FT FROM DER, 223 FT LEFT OF CENTERLINE, UP TO 4 FT AGL/169 FT MSL. TREES BEGINNING 2363 FT FROM DER, 235 FT LEFT OF CENTERLINE, UP TO 82 FT AGL/251 FT MSL. TREES BEGINNING 2918 FT FROM DER, 367 FT RIGHT OF CENTERLINE, UP TO 91 FT AGL/260 FT MSL. TOWER 5423 FT FROM DER, 1709 FT LEFT OF CENTERLINE, 157 FT AGL/321 FT MSL.

NOTE: RWY 20: BUILDING 817 FT FROM DER, 665 FT RIGHT OF CENTERLINE, 53 FT AGL/212 FT MSL. TREES 2307 FT FROM DER, 1065 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/235 FT MSL. POLE AND TREES BEGINNING 2645 FT FROM DER, 424 FT RIGHT OF CENTERLINE, UP TO 86 FT AGL/255 FT MSL.

NOTE: RWY 34: POLE 1262 FT FROM DER, 732 FT LEFT OF CENTERLINE, 41 FT AGL/200 FT MSL. TREES BEGINNING 2202 FT FROM DER, 1052 FT RIGHT OF CENTERLINE, UP TO 63 FT AGL/232 FT MSL. TREES BEGINNING 2689 FT FROM DER, 998 FT LEFT OF CENTERLINE, UP TO 78 FT AGL/237 FT MSL.

CONTROLLING OBSTACLES:

RWY 2: 321 FT MSL TOWER 373155.55N/0771932.65W.

LOST COMMUNICATIONS PROCEDURES:**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: 5000.

CHART: BRV R-122 AT COLIN.

CHART: RIC VORTAC 7.00 DME ARC FROM SOUTHWEST OF THE DEPARTURE END OF RWY 25 COUNTER CLOCKWISE TO RIC VORTAC R-074.

REFERENCE MAG VAR: KRIC 10W EPOCH YEAR: 2020.



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AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
RICHMOND INTL	RICHMOND	VA

COMMUNICATIONS:

CLNC DEL, ATIS, GND CON, TOWER, POTOMAC DEP CON 126.4/282.375.

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

CLIMB TO 687 MSL REQUESTED BY ATC TO STANDARDIZE TAKEOFF INSTRUCTIONS WITH KALLI AND LUCYL SIDS.
ABBREVIATED AMENDMENT IAW 8260.46F, APPENDIX E, PARA 14D.

FLIGHT INSPECTED BY:**OFFICE SYMBOL:****DATE:**

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW FLIGHT INSPECTION TEAM (AJW-333) MEMO, MAY 30, 2017.

DEVELOPED BY: *Digitally signed by*

MIKE MELSEN **MIKE MELSEN**
Oct 12, 2017

Digitally signed by
JACOB POWERS
Feb 16, 2018

OFFICE SYMBOL:**DATE:**

AJV-5412

09/03/2017

APPROVED BY:

GEORGE DAVIS *Digitally signed by*
JACOB POWERS
Feb 16, 2018

OFFICE SYMBOL:**DATE:**

AJV-5410

REQUIRED EFFECTIVE DATE:**COORDINATED WITH:**

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZDC, POTOMAC APP CON, RIC ATCT, AMGR.

CHANGES - REASONS:

1. ADDED REFERENCE MAG VAR FOR KRIC 10W/EPOCH YEAR 2020 TO ADDITIONAL FLIGHT DATA - MATCH PENDING AIRNAV DATA FOR AIRPORT PER 8260.46F DOCUMENTATION CRITERIA.
2. INCREASED MAGNETIC HEADINGS BY 1 DEGREE - COMPUTED USING UPDATED KRIC REFERENCE MAG VAR.
3. REMARKS: ADDED ABBREVIATED AMENDMENT - PER 8260.46F DOCUMENTATION CRITERIA FOR ABBREVIATED AMENDMENT.
4. ADDED RWY 2 CONTROLLING OBSTACLE: 321 FT MSL TOWER 373155.55N/0771932.65W - OBSTACLE REQUIRED.

