

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
SPRINGS	FIVE	COS5.BRK	FOUR	06/27/2013	05/26/2016

TYPE: SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 13: CLIMB HEADING 126.08 FOR RADAR VECTORS TO FILED/ASSIGNED ROUTE, THENCE ...
 TAKEOFF RWY 17L: CLIMB HEADING 171.06 FOR RADAR VECTORS TO FILED/ASSIGNED ROUTE, THENCE ...
 TAKEOFF RWY 17R: CLIMB HEADING 171.05 FOR RADAR VECTORS TO FILED/ASSIGNED ROUTE, THENCE ...
 TAKEOFF RWY 35R: CLIMB HEADING 351.08 FOR RADAR VECTORS TO FILED/ASSIGNED ROUTE, THENCE ...
 TAKEOFF RWY 35L: CLIMB HEADING 351.06 FOR RADAR VECTORS TO FILED/ASSIGNED ROUTE, THENCE ...
 TAKEOFF RWY 31: CLIMBING RIGHT TURN HEADING 050.00 FOR RADAR VECTORS TO FILED/ASSIGNED ROUTE, THENCE ...

...MAINTAIN 10,000. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL TEN MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
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PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

RWY 17L, 17R: STANDARD.
 RWY 13, STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 6400, OR ALTERNATIVELY WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2000 FT PRIOR TO DER.
 RWY 31: STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 7300.
 RWY 35L: STANDARD WITH MINIMUM CLIMB OF 283 FT PER NM TO 9000.
 RWY 35R: STANDARD WITH MINIMUM CLIMB OF 282 FT PER NM TO 9000.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 13, RADAR ANTENNA 4979 FT FROM DER, 1640 FT LEFT OF CENTERLINE, 107 FT AGL/6292 FT MSL.
 NOTE: RWY 17L, RWY EDGE LIGHT (REIL) 25 FT FROM DER, 115 FT LEFT/RIGHT OF CENTERLINE, 3 FT AGL/6104 FT MSL.
 NOTE: RWY 35L, RWY EDGE LIGHT (REIL) 39 FT FROM DER, 115 FT RIGHT OF CENTERLINE, 2 FT AGL/6178 FT MSL. TREE 5898 FT FROM DER, 1773 FT RIGHT OF CENTERLINE, 50 FT AGL/6338 FT MSL.

CONTROLLING OBSTACLES:

RWY 13: 6292 FT MSL ASR 384802.09N/1044042.44W
 RWY 31: 6959 FT MSL AAO 385323.62N/1044337.59W
 RWY 35L: 6959 FT MSL AAO 385323.62N/1044337.59W
 RWY 35R: 6779 FT MSL AAO 385235.29N/1044141.20W

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OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 13, 17L, 17R, 31, 35L, 35R: 14310 FT MSL AAO 385020.60N/1050238.00W

LOST COMMUNICATIONS PROCEDURES:

IF NOT IN CONTACT WITH DEPARTURE CONTROL WITHIN 1 MINUTE AFTER DEPARTURE FROM RUNWAYS 13 AND 17L/R TURN LEFT, FROM RUNWAY 31 AND 35L/R TURN RIGHT DIRECT BRK VOR/DME, THENCE VIA FILED/ASSIGNED ROUTE. AIRCRAFT FILED V108 WESTBOUND: CONTINUE CLIMB IN HOLDING PATTERN TO CROSS BRK VOR/DME AT OR ABOVE 14000.

ADDITIONAL FLIGHT DATA:

CHART: R-2601 A & B.
CHART: HOLDING AT BRK VOR/DME. HOLD NW, LT. 159.00 INBOUND. CHART J28 FROM PUB TO HBU.
CHART: V108 FROM BRK TO DBL.
CHART: RADAR REQUIRED.
CHART: TOP ALTITUDE: ASSIGNED BY ATC.

AIRPORTS SERVED:

CITY OF COLORADO SPRINGS MUNI

COLORADO SPRINGS, CO

COMMUNICATIONS:

COS ATCT, COS APP/DEP CON, DENVER TRACON. ZDV ARTCC, COS ATIS.

FIXES AND/OR NAVAIDS:

VORTACS: ALS, PUB, FQF, DVV
VOR/DMES: RIL, HBU, TBE, BRK, HGO, LAA, DBL
FIXES: BRESH, DRAKE, ELLZA, JEWLS, MASHD, RODDY, TRAIN.

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REMARKS:

CLIMB-TO-ALTITUDES AND CLIMB GRADIENTS DIFFER FROM THE OBSTACLE DEPARTURE PROCEDURE DUE TO AIRCRAFT NEEDING TO BE AT OR ABOVE THE MVA FOR RADAR VECTORING.

CHANGES:

1. BLACK FOREST VOR/DME (BRK) TO RED TABLE VOR/DME (DBL) RADIAL CHANGED FROM 273 TO 278.
2. PUEBLO VORTAC (PUB) TO BLUE MESA VOR/DME (HBU) RADIAL CHANGED FROM 262 TO 267.
3. HOLDING AT BRK VOR/DME INBOUND COURSE CHANGED FROM 154 TO 159.
4. ADDED TOP ALTITUDE NOTE.
5. RWY 13 CLIMB HEADING CHANGED FROM 126.09 TO 126.08.
6. RWY 17L CLIMB HEADING CHANGED FROM 171.08 TO 171.06.
7. RWY 35L CLIMB HEADING CHANGED FROM 351.05 TO 351.06.
8. UPDATED LOW, CLOSE-IN OBSTACLES IN TAKEOFF OBSTACLE NOTES.
9. ADDED CONTROLLING OBSTACLE FOR RWY 13.
10. CHANGED RWY 35L CONTROLLING OBSTACLE FROM 6799 FT MSL AAO TO 6959 FT MSL AAO.

REASONS:

- 1-3. BRK VOR/DME AND PUB VORTAC MAG VAR ROTATION FROM E13 TO E8.
4. PER CRITERIA MEMO DATED 12/02/2014.
- 5-7. PER AJV-5 QC CALCULATIONS.
8. OBSTACLE DATABASE UPDATE.
9. 107 FT MSL ASR ANTENNA PENETRATES RWY 13 ICA.
10. 6799 FT MSL OBSTACLE IS OUTSIDE OF THE DEPARTURE ROUTE. 6959 FT MSL OBSTACLE CAUSES CLIMB GRADIENT AND TERMINATION ALTITUDE.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
SPRINGS	FIVE	COS5 . BRK	FOUR	06/27/2013	26 MAY 2016

ARINC SUMMARY - KCOS

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
RW13	010		VM	FB		126.1								E
RW17B	010		VM	FB		171.1								E
RW31	010		CA	FB		306.1						AA 06587		
RW31	020		VM	FB		050.0			R					E
RW35B	010		VM	FB		351.1								E

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION
RW13	N384923.36	W1044255.28	06173
RW17L	N384857.91	W1044108.64	06187
RW17R	N384926.67	W1044257.23	06177
RW31	N384827.99	W1044144.71	06135
RW35L	N384737.76	W1044257.36	06045
RW35R	N384644.47	W1044108.87	06103

QUALITY
15
CHECKED