

**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SUPERSEDED NUMBER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>ACTUAL EFFECTIVE DATE</u>
EMMYS	EIGHT	EMMYS8.ZIRKL	SEVEN	01/30/2020	17 JUN 21
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
☐	☐	☒	☐	☐	☒

DP ROUTE DESCRIPTION:

TAKEOFF RWY 8: CLIMB ON HEADING 082.53 TO 5934, THEN DIRECT TO CROSS TIGHT AT OR BELOW 10000, THEN ON TRACK 082.27/5.51 TO CROSS HAAHN AT OR BELOW 12000, THEN ON TRACK 082.35/17.29 TO CROSS GASSS AT OR ABOVE 14000, THEN ON TRACK 076.79/3.00 TO SNIPR, THEN ON TRACK 076.82/5.11 TO EMMYS, THENCE ...

TAKEOFF RWY 16L: CLIMB ON HEADING 172.51 TO INTERCEPT COURSE 117.93 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 065.00/9.15 TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 072.54/11.60 TO TWEDT, THEN ON TRACK 072.70/11.09 TO CROSS GASSS AT OR ABOVE 14000, THEN ON TRACK 076.79/3.00 TO SNIPR, THEN ON TRACK 076.82/5.11 TO EMMYS, THENCE ...

TAKEOFF RWY 16R: CLIMB ON HEADING 172.51 TO INTERCEPT COURSE 117.93 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 065.00/9.15 TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 072.54/11.60 TO TWEDT, THEN ON TRACK 072.70/11.09 TO CROSS GASSS AT OR ABOVE 14000, THEN ON TRACK 076.79/3.00 TO SNIPR, THEN ON TRACK 076.82/5.11 TO EMMYS, THENCE ...

TAKEOFF RWY 17L: CLIMB ON HEADING 172.54 TO INTERCEPT COURSE 127.46 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 065.00/9.15 TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 072.54/11.60 TO TWEDT, THEN ON TRACK 072.70/11.09 TO CROSS GASSS AT OR ABOVE 14000, THEN ON TRACK 076.79/3.00 TO SNIPR, THEN ON TRACK 076.82/5.11 TO EMMYS, THENCE ...

TAKEOFF RWY 17R: CLIMB ON HEADING 172.53 TO INTERCEPT COURSE 117.95 TO CROSS GISTT AT OR ABOVE 7000, THEN ON TRACK 065.00/9.15 TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 072.54/11.60 TO TWEDT, THEN ON TRACK 072.70/11.09 TO CROSS GASSS AT OR ABOVE 14000, THEN ON TRACK 076.79/3.00 TO SNIPR, THEN ON TRACK 076.82/5.11 TO EMMYS, THENCE ...

TAKEOFF RWY 25: CLIMB ON HEADING 262.51 TO 5934, THEN CONTINUE CLIMB ON HEADING 262.51 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO EMMYS, THENCE ...

TAKEOFF RWY 34L: CLIMB ON HEADING 352.51 TO INTERCEPT COURSE 059.00 TO NUGGS, THEN ON TRACK 079.80/9.65 TO CROSS HIDEF AT/BELOW 10000, THEN ON TRACK 097.54/8.92 TO CROSS BRSTO AT/BELOW 12000, THEN ON TRACK 092.27/14.35 TO CROSS GASSS AT/ABOVE 14000, THEN ON TRACK 076.79/3.00 TO SNIPR, THEN ON TRACK 076.82/5.11 TO EMMYS, THENCE ...

TAKEOFF RWY 34R: CLIMB ON HEADING 352.51 TO INTERCEPT COURSE 059.00 TO NUGGS, THEN ON TRACK 079.80/9.65 TO CROSS HIDEF AT/BELOW 10000, THEN ON TRACK 097.54/8.92 TO CROSS BRSTO AT/BELOW 12000, THEN ON TRACK 092.27/14.35 TO CROSS GASSS AT/ABOVE 14000, THEN ON TRACK 076.79/3.00 TO SNIPR, THEN ON TRACK 076.82/5.11 TO EMMYS, THENCE ...

TAKEOFF RWY 35L: CLIMB ON HEADING 352.53 TO INTERCEPT COURSE 024.97 TO NUGGS, THEN ON TRACK 079.80/9.65 TO CROSS HIDEF AT OR BELOW 10000, THEN ON TRACK 097.54/8.92 TO CROSS BRSTO AT OR BELOW 12000, THEN ON TRACK 092.27/14.35 TO CROSS GASSS AT OR ABOVE 14000, THEN ON TRACK 076.79/3.00 TO SNIPR, THEN ON TRACK 076.82/5.11 TO EMMYS, THENCE ...

TAKEOFF RWY 35R: CLIMB ON HEADING 352.54 TO INTERCEPT COURSE 017.95 TO NUGGS, THEN ON TRACK 079.80/9.65 TO CROSS HIDEF AT OR BELOW 10000, THEN ON TRACK 097.54/8.92 TO CROSS BRSTO AT OR BELOW 12000, THEN ON TRACK 092.27/14.35 TO CROSS GASSS AT OR ABOVE 14000, THEN ON TRACK 076.79/3.00 TO SNIPR, THEN ON TRACK 076.82/5.11 TO EMMYS, THENCE ...

... ON DEPICTED ROUTE TO ZIRKL. MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 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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EMMYS	EIGHT	EMMYS8.ZIRKL	SEVEN	01/30/2020	17 JUN 21

PROCEDURAL DATA NOTES:

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: RNAV 1.

NOTE: TURBOJETS ONLY.

NOTE: TAKEOFF RWY 16L, 16R, 17L, 17R, 34L, 34R, 35L, 35R - RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

NOTE: ACCELERATE TO 250 KIAS OR GREATER UPON REACHING 10000. IF SLOWER SPEED IS REQUIRED TO MEET CROSSING RESTRICTIONS ADVISE CLNC DEL PRIOR TO TAXI.

NOTE: RWY 25 DEPARTURES - RADAR REQUIRED.

TAKEOFF MINIMUMS:

RWY 7, 26: NA - ATC.

RWY 8: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 260 FT PER NM TO 14000.

RWY 16L: STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 8700.

RWY 16R: STANDARD WITH MINIMUM CLIMB OF 450 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 215 FT PER NM TO 14000.

RWY 17L: STANDARD WITH MINIMUM CLIMB OF 465 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 280 FT PER NM TO 9300.

RWY 17R: STANDARD WITH MINIMUM CLIMB OF 465 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 235 FT PER NM TO 14000.

RWY 25: STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934.

RWY 34L/R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 220 FT PER NM TO 14000.

RWY 35L: STANDARD WITH MINIMUM CLIMB OF 320 FT PER NM TO 5934 THEN MINIMUM CLIMB OF 220 FT PER NM TO 14000.

RWY 35R: STANDARD WITH MINIMUM CLIMB OF 285 FT PER NM TO 9000.

TAKEOFF OBSTACLES NOTES:

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

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

REFERENCE MAG VAR: KDEN 8E EPOCH YR: 2015.

DME/DME ASSESSMENT: SAT (RNP 2.0).

CHART: TOP ALTITUDE: FL230.

PILOT NAVIGATION AREA:

10 NM ARC CENTERED ON EMMYS (IF), CW

FROM: POINT A (BEARING 029 DEGREES TO EMMYS)

TO: POINT B (BEARING 118 DEGREES TO EMMYS)

MINIMUM ALTITUDE 14000

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
DENVER INTL	KDEN	DENVER	CO

COMMUNICATIONS:

D-ATIS DEP, CLNC DEL, CPDLC, DEN DEP CON

FIXES AND/OR NAVAIDS:

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
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REMARKS:

ABBREVIATED AMENDMENT

CLIMB GRADIENTS ARE FOR FMS ENGAGEMENT AT SPECIFIC LOCATIONS AND FOR CROSSING GASSS AT/ABOVE 14000.

THE AIRLINE INDUSTRY HAS REQUESTED BLOCK ALTITUDES NOT BE PUBLISHED ON THE PROCEDURE. WAIVER ON FILE TO REMOVE AT/ABOVE ALTITUDES ASSOCIATED WITH CROSS AT OR BELOW ALTITUDES.

ATC HAS REQUESTED TO DEVIATE FROM THE STANDARD NAMING CONVENTION CONTAINED IN FAAO 8260.46. SID NAMES CORRESPOND WITH WAYPOINT NAMES AT OUTER BOUNDARY OF DENVER TRACON/ARTCC AIRSPACE. WAIVER APPROVED AND ON FILE.

FLIGHT INSPECTED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020
SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED.

*Digitally signed by***ALLAN WILL**

Mar 08, 2021

OFFICEDATE**DEVELOPED BY**

MICHAEL R. GARRITY JR. **MICHAEL GARRITY**
Feb 18, 2021

*Digitally signed by*OFFICEDATE

AJV-A423

01/12/2021

APPROVED BY

MARLON ROBINSON

*Digitally signed by***ALLAN WILL**

Mar 08, 2021

OFFICEDATE

AJV-A420

TITLE

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDV, DEN APP CON, CO AERO MGR, AMGR

CHANGES - REASONS:

1. REMOVED DP ROUTE DESCRIPTIONS, TAKEOFF MINIMUMS, TAKEOFF OBSTACLE NOTES, AND CONTROLLING OBSTACLES FOR SATELLITE AIRPORTS KAPA, KBJC, KFNL, AND KFCO - FPT REQUEST PER FAA CATEx DECLARATION.
2. CHANGED PROCEDURE DATA NOTE FROM "ACCELERATE TO AT OR ABOVE 250 KNOTS ABOVE 10000..." TO "ACCELERATE TO 250 KIAS OR GREATER UPON REACHING 10,000.." - FPT REQUEST PER FAA CATEx DECLARATION/IMPROVED WORDING TO REDUCE INDUSTRY CONFUSION.



**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>
EMMYS		EIGHT		EMMYS8.ZIRKL		SEVEN		01/30/2020	17 JUN 21
<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>
RW08 (AER)	395239.20N/1043944.03W	N	-	-	-	-			CG 400 FT PER NM TO 5934 THEN CG 260 FT PER NM TO 14000
5934 MSL	-	-	-	VA	090.53	-	AT/ABOVE 5934		
TIGHT	395228.24N/1042412.70W	Y	FB	DF	-	-	AT/BELOW 10000		
HAAHN	395226.46N/1041702.92W	Y	FB	TF	090.27	5.51	AT/BELOW 12000		
GASSS	395217.90N/1035435.25W	Y	FB	TF	090.35	17.29	AT/ABOVE 14000		
SNIPR	395234.18N/1035042.42W	Y	FB	TF	084.79	3.00			
EMMYS	395301.71N/1034405.41W	Y	FB	TF	084.82	5.11			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			
RW16L (AER)	395349.33N/1044112.50W	N	-	-	-	-			
	394927.10N/1044115.54W	-	-	VI	180.51	4.37			CG 250 FT PER NM TO 8700
GISTT	394557.50N/1043501.10W	Y	FB	CF	125.93	5.94	AT/ABOVE 7000		
KIDNG	394837.67N/1042339.58W	Y	FB	TF	073.00	9.15	AT/BELOW 10000		
TWEDT	395031.18N/1040848.39W	Y	FB	TF	080.54	11.60			
GASSS	395217.90N/1035435.25W	Y	FB	TF	080.70	11.09	AT/ABOVE 14000		
SNIPR	395234.18N/1035042.42W	Y	FB	TF	084.79	3.00			
EMMYS	395301.71N/1034405.41W	Y	FB	TF	084.82	5.11			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			
RW16R (AER)	395344.87N/1044145.90W	N	-	-	-	-			CG 400 FT PER NM TO 5934 THEN CG 215 FT PER NM TO 14000
	394939.89N/1044148.73W	-	-	VI	180.51	3.98			
GISTT	394557.50N/1043501.10W	Y	FB	CF	125.93	6.47	AT/ABOVE 7000		

QUALITY
8
CHECKED

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EMMYS		EIGHT		EMMYS8.ZIRKL		SEVEN		01/30/2020	17 JUN 21
<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>
KIDNG	394837.67N/1042339.58W	Y	FB	TF	073.00	9.15	AT/BELOW 10000		
TWEDT	395031.18N/1040848.39W	Y	FB	TF	080.54	11.60			
GASSS	395217.90N/1035435.25W	Y	FB	TF	080.70	11.09	AT/ABOVE 14000		
SNIPR	395234.18N/1035042.42W	Y	FB	TF	084.79	3.00			
EMMYS	395301.71N/1034405.41W	Y	FB	TF	084.82	5.11			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			
RW17L (AER)	395153.83N/1043828.70W	N	-	-	-	-	CG 465 FT PER NM TO 5934 THEN CG 280 FT PER NM TO 9300		
	394842.22N/1043831.05W	-	-	VI	180.54	3.19			
GISTT	394557.50N/1043501.10W	Y	FB	CF	135.46	3.85	AT/ABOVE 7000		
KIDNG	394837.67N/1042339.58W	Y	FB	TF	073.00	9.15	AT/BELOW 10000		
TWEDT	395031.18N/1040848.39W	Y	FB	TF	080.54	11.60			
GASSS	395217.90N/1035435.25W	Y	FB	TF	080.70	11.09	AT/ABOVE 14000		
SNIPR	395234.18N/1035042.42W	Y	FB	TF	084.79	3.00			
EMMYS	395301.71N/1034405.41W	Y	FB	TF	084.82	5.11			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			
RW17R (AER)	395140.48N/1043936.56W	N	-	-	-	-	CG 465 FT PER NM TO 5934 THEN CG 235 FT PER NM TO 14000		
	394833.02N/1043938.81W	-	-	VI	180.53	3.12			
GISTT	394557.50N/1043501.10W	Y	FB	CF	125.95	4.41	AT/ABOVE 7000		
KIDNG	394837.67N/1042339.58W	Y	FB	TF	073.00	9.15	AT/BELOW 10000		
TWEDT	395031.18N/1040848.39W	Y	FB	TF	080.54	11.60			
GASSS	395217.90N/1035435.25W	Y	FB	TF	080.70	11.09	AT/ABOVE 14000		
SNIPR	395234.18N/1035042.42W	Y	FB	TF	084.79	3.00			

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EMMYS		EIGHT		EMMYS8.ZIRKL		SEVEN		01/30/2020	17 JUN 21
<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>
EMMYS	395301.71N/1034405.41W	Y	FB	TF	084.82	5.11			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			
RW25 (AER)	395026.37N/1044102.17W	N	-	-	-	-			CG 400 FT PER NM TO 5934
5934 MSL	-	-	-	VA	270.51	-			
	-	-	-	VM	270.51				
EMMYS	395301.71N/1034405.41W	Y	FB	DF	-	-			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			
RW34L (AER)	395106.79N/1044147.72W	N	-	-	-	-			CG 500 FT PER NM TO 5934 THEN CG 220 FT PER NM TO 14000
	395515.28N/1044144.84W	-	-	VI	000.51	4.14			
NUGGS	395655.57N/1043638.33W	Y	FB	CF	067.00	4.27			
HIDEF	395717.16N/1042405.90W	Y	FB	TF	087.80	9.65	AT/BELOW 10000		
BRSTO	395453.04N/1041255.58W	Y	FB	TF	105.54	8.92	AT/BELOW 12000		
GASSS	395217.90N/1035435.25W	Y	FB	TF	100.27	14.35	AT/ABOVE 14000		
SNIPR	395234.18N/1035042.42W	Y	FB	TF	084.79	3.00			
EMMYS	395301.71N/1034405.41W	Y	FB	TF	084.82	5.11			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			
RW34R (AER)	395150.77N/1044113.88W	N	-	-	-	-			CG 500 FT PER NM TO 5934 THEN CG 220 FT PER NM TO 14000
	395526.24N/1044111.39W	-	-	VI	000.51	3.59			
NUGGS	395655.57N/1043638.33W	Y	FB	CF	067.00	3.80			
HIDEF	395717.16N/1042405.90W	Y	FB	TF	087.80	9.65	AT/BELOW 10000		
BRSTO	395453.04N/1041255.58W	Y	FB	TF	105.54	8.92	AT/BELOW 12000		

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EMMYS		EIGHT		EMMYS8.ZIRKL		SEVEN		01/30/2020	17 JUN 21
<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>
GASSS	395217.90N/1035435.25W	Y	FB	TF	100.27	14.35	AT/ABOVE 14000		
SNIPR	395234.18N/1035042.42W	Y	FB	TF	084.79	3.00			
EMMYS	395301.71N/1034405.41W	Y	FB	TF	084.82	5.11			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			
RW35L (AER)	394941.93N/1043937.98W	N	-	-	-	-	CG 320 FT PER NM TO 5934 THEN CG 220 FT PER NM TO 14000		
	395325.62N/1043935.30W	-	-	VI	000.53	3.73			
NUGGS	395655.57N/1043638.33W	Y	FB	CF	032.97	4.17			
HIDEF	395717.16N/1042405.90W	Y	FB	TF	087.80	9.65	AT/BELOW 10000		
BRSTO	395453.04N/1041255.58W	Y	FB	TF	105.54	8.92	AT/BELOW 12000		
GASSS	395217.90N/1035435.25W	Y	FB	TF	100.27	14.35	AT/ABOVE 14000		
SNIPR	395234.18N/1035042.42W	Y	FB	TF	084.79	3.00			
EMMYS	395301.71N/1034405.41W	Y	FB	TF	084.82	5.11			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			
RW35R (AER)	394955.27N/1043830.16W	N	-	-	-	-	CG 285 FT PER NM TO 9000		
	395403.53N/1043827.11W	-	-	VI	000.54	4.14			
NUGGS	395655.57N/1043638.33W	Y	FB	CF	025.95	3.18			
HIDEF	395717.16N/1042405.90W	Y	FB	TF	087.80	9.65	AT/BELOW 10000		
BRSTO	395453.04N/1041255.58W	Y	FB	TF	105.54	8.92	AT/BELOW 12000		
GASSS	395217.90N/1035435.25W	Y	FB	TF	100.27	14.35	AT/ABOVE 14000		
SNIPR	395234.18N/1035042.42W	Y	FB	TF	084.79	3.00			
EMMYS	395301.71N/1034405.41W	Y	FB	TF	084.82	5.11			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			

QUALITY
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