

**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SUPERSEDED NUMBER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>
ECHOO	ONE	ECHOO1.ECHOO	NONE		26 MAR 20

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	☐	☐	☒	☐	☒

DP ROUTE DESCRIPTION:
CENTENNIAL KAPA:

TAKEOFF RW17L/R: CLIMB ON HEADING 169.95 TO 6385, THEN ON HEADING 169.95 OR AS ASSIGNED BY ATC. THENCE...

TAKEOFF RW35L/R: CLIMB ON HEADING 349.95 TO 6385, THEN ON HEADING 349.95 OR AS ASSIGNED BY ATC. THENCE...

COLORADO AIR AND SPACE PORT KCFO:

TAKEOFF RW08: CLIMB ON A HEADING BETWEEN 312 CW 228 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RW17: CLIMB ON A HEADING BETWEEN 352 CW 229 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RW26: CLIMB ON A HEADING BETWEEN 315 CW 083 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RW35: CLIMB ON A HEADING BETWEEN 313 CW 172 AS ASSIGNED BY ATC. THENCE...

GREELEY-WELD COUNTY KGXY:

TAKEOFF RW10: CLIMB ON A HEADING BETWEEN 292 CW 214 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RW17: CLIMB ON A HEADING BETWEEN 350 CW 212 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RW28: CLIMB ON A HEADING BETWEEN 294 CW 097 OR BETWEEN 097 CW 209 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RW35: CLIMB ON A HEADING BETWEEN 293 CW 169 AS ASSIGNED BY ATC. THENCE...

NORTHERN COLORADO RGNL KFNL:

TAKEOFF RW15: CLIMB ON A HEADING BETWEEN 350 CW 180 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RW33: CLIMBING RIGHT TURN ON A HEADING BETWEEN 350 CW 150 AS ASSIGNED BY ATC. THENCE...

ROCKY MOUNTAIN METROPOLITAN KBJC:

TAKEOFF RW12L/R: CLIMB ON A HEADING BETWEEN 350 CW 150 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RW30L/R: CLIMBING RIGHT TURN ON A HEADING BETWEEN 350 CW 113 AS ASSIGNED BY ATC. THENCE...

VANCE BRAND KLMO:

TAKEOFF RW11: CLIMB ON A HEADING BETWEEN 030 CW 160 AS ASSIGNED BY ATC. THENCE...

TAKEOFF RW29: CLIMBING RIGHT TURN ON A HEADING BETWEEN 030 CW 110 AS ASSIGNED BY ATC. THENCE...

ALL AIRPORTS:

...EXPECT RADAR VECTORS TO CROSS BAPME AT 8,000 THEN ON TRACK 086.93/11.69 TO ECHOO, THEN ON (TRANSITION) MAINTAIN FL230 OR FILED LOWER ALTITUDE. EXPECT HIGHER FILED ALTITUDE 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>
WYNDM	ECHOO1.WYNDM	ECHOO	EEONS	TRACK 050.06	20.28	15000	9000	
		EEONS	WYNDM	TRACK 069.88	110.00	15000	7000	
ZIRKL	ECHOO1.ZIRKL	ECHOO	EMMYS	TRACK 074.51	19.02	15000	9000	
		EMMYS	ZIRKL	TRACK 073.45	109.97	15000	7100	
DUUZE	ECHOO1.DUUZE	ECHOO	EPKEE	TRACK 125.22	21.87	15000	7700	
		EPKEE	POIZN	TRACK 101.97	42.07	15000	8100	

QUALITY
35
CHECKED

<u>DP NAME</u>		<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
ECHOO		ONE	ECHOO1.ECHOO	NONE		26 MAR 20
	POIZN		COTNN	TRACK 108.69	28.08	15000 6100
	COTNN		DUUZE	TRACK 109.18	37.55	15000 6000
SHAYK	ECHOO1.SHAYK		ECHOO	EXTAN	TRACK 100.42	18.82 15000 7500
	EXTAN		SHAYK	TRACK 087.47	109.45	15000 7400

PROCEDURAL DATA NOTES:

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: RNAV 1.

NOTE: TURBOJETS ONLY.

NOTE: RADAR REQUIRED.

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

TAKEOFF MINIMUMS:**CENTENNIAL KAPA:**

RWYS 10, 28 NA

RWY 17L STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 8000

RWY 17R STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 8000

RWY 35L, 35R STANDARD

COLORADO AIR AND SPACE PORT KCFO:

RWY 8, 17, 26, 35 STANDARD

GREELEY-WELD COUNTY KGXY:

RWY 10, 17, 28, 35 STANDARD

NORTHERN COLORADO RGNL KFNL:

RWYS 6, 24 NA

RWY 15, 33 STANDARD

ROCKY MOUNTAIN METROPOLITAN KBJC:

RWYS 3, 21 NA

RWY 12L/R, 30L/R STANDARD

VANCE BRAND KLMO:

RWY 11 STANDARD

RWY 29 STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 8000.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

CENTENNIAL:

RWY 17L: 6560 FT MSL AAO 392951.19N/1045200.83W.

RWY17R: 6021 FT MSL OBS LT ON BLDG 393302.52N/1045119.43W (CG), 6560 FT MSL AAO 392951.19N/1045200.83W (CGTA).

VANCE BRAND:

RWY 29: 6179 FT MSL AAO 401357.20N/1051150.87W.

OBSTACLES MANDATING ROUTE DEVELOPMENT:

CENTENNIAL:

RWY 17L/R: 13591 FT MSL AAO 395019.70N/1054255.40W, 14470 FT MSL AAO 393807.40N/1054902.40W, 14310 FT MSL AAO 385020.60N/1050238.00W.

RWY 35L/R: 13591 FT MSL AAO 395019.70N/1054255.40W, 14470 FT MSL AAO 393807.40N/1054902.40W, 14310 FT MSL AAO 385020.60N/1050238.00W.

COLORADO AIR AND SPACE PORT:

RWY 8: 14464 FT MSL AAO 393517.70N/1053838.00W, 14455 FT MSL AAO 401511.20N/1053651.40W.

RWY 17: 14464 FT MSL AAO 393517.70N/1053838.00W.

RWY 26: 14464 FT MSL AAO 393517.70N/1053838.00W, 14455 FT MSL AAO 401511.20N/1053651.40W.



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ECHOO	ONE	ECHOO1.ECHOO	NONE		26 MAR 20

RWY 35: 14455 FT MSL AAO 401511.20N/1053651.40W.

GREELEY-WELD COUNTY:

RWY 10:14455 FT MSL AAO 401519.05N/1053628.56W, 10920 MSL AAO 403043.86N/1052635.42W, 11847 MSL AAO 401043.35N/1053351.27W.

RWY 17:14455 FT MSL AAO 401519.05N/1053628.56W, 10920 MSL AAO 403043.86N/1052635.42W, 11847 MSL AAO 401043.35N/1053351.27W.

RWY 28:14455 FT MSL AAO 401519.05N/1053628.56W, 10920 MSL AAO 403043.86N/1052635.42W, 11847 MSL AAO 401043.35N/1053351.27W.

RWY 35:14455 FT MSL AAO 401519.05N/1053628.56W, 10920 MSL AAO 403043.86N/1052635.42W, 11847 MSL AAO 401043.35N/1053351.27W.

NORTHERN COLORADO RGNL:

RWY 15: 14455 MSL AAO 401511.20N/1053651.40W.

RWY 33: 13630 MSL AAO 402830.00N/1053424.99W, 14455 MSL AAO 401511.20N/1053651.40W.

ROCKY MOUNTAIN METROPOLITIAN:

RWY 12L/R: 14470 FT MSL AAO 393607.40N/1054902.40W, 12348 FT MSL AAO 403111.11N/1053512.76W, 9222 FT MSL AAO 393343.86N/1051525.75W.

RWY 30L/R: 14470 FT MSL AAO 393807.40N/1054902.40W, 12348 FT MSL AAO 403111.11N/1053512.76W, 14431 FT MSL AAO 391427.57N/1052950.60W.

VANCE BRAND:

RWY 11: 13575 FT MSL AAO 393327.70N/1053613.80W.

RWY 29: 14459 FT MSL AAO 401511.20N/1053651.40W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

KAPA: REF MAG VAR 8E, EPOCH YR 2015

DME/DME ASSESSMENT: SAT (RNP 2.0)

CHART TOP ALTITUDE: FL230

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
CENTENNIAL	KAPA	DENVER	CO
ROCKY MOUNTAIN METROPOLITAN	KBJC	DENVER	CO
COLORADO AIR AND SPACE PORT	KCFO	DENVER	CO
NORTHERN COLORADO RGNL	KFNL	FORT COLLINS/LOVELAND	CO
GREELEY-WELD COUNTY	KGXY	GREELEY	CO
VANCE BRAND	KLMO	LONGMONT	CO

COMMUNICATIONS:

KAPA: ATIS, CLNC DEL, DEN DEP CON

KBJC: ATIS, CLNC DEL, DEN DEP CON

KCFO: ATIS, CLNC DEL, DEN DEP CON, DENVER CLNC DEL (WHEN TOWER CLOSED)

KFNL: CLNC DEL, DEN DEP CON

KGXY: CLNC DEL, DEN DEP CON

KLMO: 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>
ECHOO	ONE	ECHOO1.ECHOO	NONE		26 MAR 20

REMARKS:FLIGHT INSPECTED BY

BRYAN VEIT

OFFICE

FICO

DATE

1/18/20

DEVELOPED BY

AUSTIN GOTCHER

*Digitally signed by***AUSTIN GOTCHER**

Feb 12, 2020

OFFICE

AJV-A422

DATE

10/17/2019

APPROVED BY

MARLON ROBINSON

OFFICE

AJV-A420

DATETITLE

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:**ZDV, DEN DEP CON, AMGR.CHANGES - REASONS:

02/12/2020: THIS IS CORRECTED COPY OF THE FORM APPROVED ON 01/27/2020.

1. IN THE WYNDM TRANSITION, CHANGED THE EEONS TO WYNDM MEA FROM 1500 TO 15000.



**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>
ECHOO		ONE		ECHOO1.ECHOO		NONE			26 MAR 20
<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>
BAPME	395136.65N/1042342.23W	Y	-	IF	-	-	AT 8000		
ECHOO	395035.38N/1040835.29W	Y	FB	TF	094.93	11.69			
ECHOO	395035.38N/1040835.29W	Y	-	IF				ECHOO1.WYNDM	
EEONS	400117.62N/1034611.04W	Y	FB	TF	058.06	20.28			
WYNDM	402259.60N/1012526.20W	Y	FB	TF	077.88	110.00			
ECHOO	395035.38N/1040835.29W	Y	-	IF				ECHOO1.ZIRKL	
EMMYS	395301.71N/1034405.41W	Y	FB	TF	082.51	19.02			
ZIRKL	400756.94N/1012217.29W	Y	FB	TF	081.45	109.97			
ECHOO	395035.38N/1040835.29W	Y	-	IF				ECHOO1.DUUZE	
EPKEE	393534.21N/1034758.30W	Y	FB	TF	133.22	21.87			
POIZN	392100.00N/1025700.00W	Y	FB	TF	109.97	42.07			
COTNN	390818.02N/1022445.33W	Y	FB	TF	116.69	28.08			
DUUZE	385100.00N/1014200.00W	Y	FB	TF	117.18	37.55			
ECHOO	395035.38N/1040835.29W	Y	-	IF				ECHOO1.SHAYK	
EXTAN	394435.96N/1034526.05W	Y	FB	TF	108.42	18.82			
SHAYK	393243.98N/1012434.30W	Y	FB	TF	095.47	109.45			

QUALITY
3
CHECKED