

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

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<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
YELLOWSTONE	ONE	YELLO1.DEN	NINE	08/18/2014	5 JAN 2017
<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"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

DENVER INTL:

TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED TRANSITION. CLIMB AND MAINTAIN 10000 OR ATC ASSIGNED LOWER ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

BUCKLEY AFB:

TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

GREELEY-WELD COUNTY:

TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

CENTENNIAL:

TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE. RWY 10, CLIMB HEADING 099.95 TO 6600 BEFORE TURNING RIGHT.

FRONT RANGE:

TAKEOFF ALL RUNWAYS, FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ROCKY MOUNTAIN METROPOLITAN:

TAKEOFF RWY 3, CLIMB TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW150 FROM DEPARTURE END OF RUNWAY, THENCE...

TAKEOFF RWY 12L, 12R: CLIMB TO ASSIGNED ALTITUDE AND HEADING BE1WEEN 150 CCW 350 FROM DEPARTURE END OF RUNWAY. THENCE...

TAKEOFF RWY 21, CLIMBING LEFT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 150 CCW TO 024 FROM DEPARTURE END OF RUNWAY. THENCE...

TAKEOFF RWY 30R, CLIMBING RIGHT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW 113 FROM DEPARTURE END OF RUNWAY. THENCE...

TAKEOFF RWY 30L, CLIMBING RIGHT TURN TO ASSIGNED ALTITUDE AND HEADING BE1WEEN 350 CW 113 FROM DEPARTURE END OF RUNWAY. THENCE...

... EXPECT RADAR VECTORS TO ASSIGNED ROUTE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

FORT COLLINS-LOVELAND MUNI:

TAKEOFF RWY 33, CLIMBING RIGHT TURN TO ASSIGNED ALTITUDE AND HEADING BETWEEN 350 CW 150 FROM DEPARTURE END OF RUNWAY. THENCE...

TAKEOFF RWY 15, CLIMB TO ASSIGNED ALTITUDE AND HEADING BETWEEN 180 CCW 350 FROM END OF RUNWAY. THENCE...

... EXPECT RADAR VECTORS TO ASSIGNED TRANSITION. EXPECT 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>
LARAMIE	YELLO1.LAR	DEN VOR/DME	YAMMI	334.00 (DEN R-334)	60.09	11000		
		YAMMI	LAR/VOR DME	305.00 (LAR R-125)	45.37	11000		
MEDICINE BOW	YELLO1.MBW	DEN VOR/DME	YAMMI	334.00 (DEN R-334)	60.09	11000		YAMMI AT/ABOVE 12000

QUALITY
3
CHECKED

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YELLOWSTONE		ONE	YELLO1.DEN	NINE	08/18/2014	5 JAN 2017
	YAMMI	MBW VOR/DME	312.53 MBW (R-133)	77.40	12000	
CHEYENNE	YELLO1.CYS	DEN VOR/DME	YALES	348.53 (DEN R-349)	58.98	10000
	YALES	CYS VORTAC	343.46 (CYS R-163)	25.03	10000	
SCOTTSBLUFF	YELLO1.BFF	DEN VOR/DME	BFF VORTAC	014.88 & 010.65 (DEN R-015 & BFF R-191)	135.87	9000
HANKI	YELLO1.HANKI	DEN VOR/DME	COPLA	014.88 (DEN R-015)	66.17	9000 8000
	COPLA	HANKI	033.90 (GLL R034)	71.49	FL 210	8000
NATTI	YELLO1.NATTI	DEN VOR/DME	YAMMI	334.00 (DEN R-334)	60.09	11000
	YAMMI	LAR VOR/DME	305.00 (LAR R-125)	45.37	11000	
	LAR VOR/DME	NATTI	273.26 (LAR R-273)	36.00	13400	
RAPID CITY	YELLO1.RAP	DEN VOR/DME	GLL VOR/DME	358.78 & 353.85 (DEN R-359 & GLL R-174)	41.75	9000
	GLL VOR/DME	RAP VORTAC	004.73 & 005.77 (GLL R-005 & RAP R-186)	219.27	FL 230	9000

PROCEDURAL DATA NOTES:
NOTE: RADAR REQUIRED.

TAKEOFF MINIMUMS:

DENVER INTL- STANDARD.
ROCKY MOUNTAIN METROPOLITAN- RWY 3, 12R, 12L, 21, 30R, 30L, STANDARD.
BUCKLEY AFB- STANDARD.
CENTENNIAL- RWY 10, 35L, 35R, STANDARD .
RWY 17L, STANDARD WITH MINIMUM CLIMB OF 255FT PER NM TO 8000.
RWY 17R, STANDARD WITH MINIMUM CLIMB OF 370FT PER NM TO 8000.
RWY 28, STANDARD WITH MINIMUM CLIMB OF 300FT PER NM TO 8000.
FRONT RANGE- STANDARD.
GREELEY-WELD COUNTY - STANDARD
FORT COLLINS-LOVELAND MUNI-RWY 6, 24, NA - VFR RUNWAY. RWY 15, 33, STANDARD.

TAKEOFF OBSTACLES NOTES:

DENVER INTL:
NOTE: RWY 7, SIGN 21 FT FROM DER, 337 FT LEFT OF CENTERLINE, 5 FT AGL/5357 FT MSL.
NOTE: RWY 16L, SIGNS, BEGINNING 126 FT FROM DER, 490 FT LEFT OF CENTERLINE, UP TO 7 FT AGL/5359 FT MSL.
COMMUNICATION TWR, 4749 FT FROM DER, 1358 FT LEFT OF CENTERLINE, 107 FT AGL/5478 FT MSL.
NOTE: RWY 25, SIGN, 48 FT FROM DER, 450 FT RIGHT OF CENTERLINE, UP TO FT 6 AGL/5354 FT MSL.
NOTE: RWY 26, SIGN, 50 FT FROM DER, 339 FT LEFT OF CENTERLINE, UP TO 5 FT AGL/5356 FT MSL.
ROCKY MOUNTAIN METRO



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YELLOWSTONE	ONE	YELLO1.DEN	NINE	08/18/2014	5 JAN 2017

NOTE: RWY 03, POLE 432 FT FROM DER, 370 FT RIGHT OF CENTERLINE, 50 FT AGL/5622 FT MSL.

NOTE: RWY 12L, GROUND 1 FT FROM DER, 266 FT LEFT OF CENTERLINE, 5566 FT MSL.

POLES, BEGINNING 11 FT FROM DER, 395 FT LEFT OF CENTERLINE, UP TO 2 FT AGL/5567 FT MSL.

NOTE: RWY 12R, POLES BEGINNING 7 FT FROM DER, 265 FT RIGHT OF CENTERLINE, 2 FT AGL/5596 FT MSL. LIGHTS BEGINNING 8 FT FROM DER, 52 FT LEFT AND RIGHT OF CENTERLINE, 2 FT AGL/5596 FT MSL.

NOTE: RWY 21, WSK 116 FT FROM DER, 209 FT LEFT OF CENTERLINE, 10 FT AGL/5622 FT MSL.

NOTE: RWY 30L, TERRAIN 23 FT FROM DER, 28 FT LEFT OF CENTERLINE, 5724 FT MSL. LIGHTS 40 FT FROM DER, 76 FT RIGHT OF CENTERLINE, 2 FT AGL/5676 FT MSL. GROUND, BEGINNING 831 FT FROM DER, 170 FT LEFT OF CENTERLINE, 5698 FT MSL. FENCE BEGINNING 946 FT FROM DER, 206 FT LEFT OF CENTERLINE, UP TO 19 FT AGL/5734 FT MSL. VEHICLES ON ROAD BEGINNING 1425 FT FROM DER, 715 FT LEFT OF CENTERLINE, 10 FT AGL/5748 FT MSL. TREES AND POLES, BEGINNING 1106 FT FROM DER, 92 FT LEFT OF CENTERLINE, UP TO 44 FT AGL/5754 FT MSL.

NOTE: RWY 30R, GROUND BEGINNING 1 FT FROM DER, 183 FT RIGHT OF CENTERLINE, UP TO 5661 FT MSL.

LT POLE 10 FT FROM DER, 59 FT LEFT OF CENTERLINE, 2 FT AGL/5661 FT MSL. LIGHTS BEGINNING 11 FT FROM DER, 127 FT RIGHT OF CENTERLINE, 2 FT AGL/5567 FT MSL. POLE 1606 FT FROM DER, 917 FT LEFT OF CENTERLINE, 44 FT AGL/5702 FT MSL.

BUCKLEY AFB

NOTE: RWY 14, TERRAIN 110 FT FROM DER, 529 FT LEFT OF CENTERLINE, 566 FT MSL.

CENTENNIAL

NOTE: RWY 10, TERRAIN BEGINNING 369 FT FROM DER 30 FT RIGHT OF CENTERLINE, UP TO 5854 FT MSL. FENCES BEGINNING 1211 FT FROM DER, 233 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL 5841 FT MSL. MULTIPLE BUSHES BEGINNING 1378 FT FROM DER, 284 FT RIGHT OF CENTERLINE, UP TO 6 FT AGL 5840 FT MSL. MULTIPLE ROADS WITH VEHICLES BEGINNING 198 FT FROM DER, 404 FT LEFT OF CENTERLINE, UP TO 15 FT AGL 5835 FT MSL. TERRAIN 1358 FT FROM DER, 253 FT LEFT OF CENTERLINE, UP TO 5830 FT MSL.

NOTE: RWY 17L, TREES BEGINNING 2968 FT FROM DER, 761 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL 5976 FT MSL.

NOTE: RWY 17R, TERRAIN 181 FT FROM DER, 496 FT RIGHT OF CENTERLINE, 5887 FT MSL. FENCE 538 FT FROM DER, 196 FT RIGHT OF CENTERLINE, 8 FT AGL 5886 FT MSL. TREES BEGINNING 562 FT FROM DER, 61 FT RIGHT OF CENTERLINE, UP TO 16 FT AGL 5976 FT MSL. MULTIPLE LIGHT POLES BEGINNING 2362 FT FROM DER, 256 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL 5942 FT MSL. OBSTRUCTION LIGHT ON BUILDING 3282 FT FROM DER, 842 FT RIGHT OF CENTERLINE, 90 FT AGL 6021 FT MSL.

NOTE: RWY 28, TERRAIN BEGINNING 89 FT FROM DER, ON CENTERLINE EXTENDING TO 514 FT LEFT TO 137 FT RIGHT OF CENTERLINE, UP TO 5843 FT MSL. WINDSOCK 100 FT FROM DER. 183 FT LEFT OF CENTERLINE, 15 FT AGL 5832 FT MSL. TREES BEGINNING 1640 FT FROM DER, 731 FT LEFT OF CENTERLINE, UP TO 100 FT AGL 5959 FT MSL.

FRONT RANGE

NOTE: RWY 17, POLE 3618 FT FROM DER, 516 FT LEFT OF CENTERLINE, 43FT AGL/5603 FT MSL.

NOTE: RWY 26, TREES BEGINNING 98 FT FROM DER, 456 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/5489 FT MSL.

GREELY-WELD COUNTY

NOTE: RWY 28, TREE, 1634 FT FROM DER, 836 FT LEFT OF CENTERLINE, 56 FT AGL/4717 FT MSL. FENCE, 237 FT FROM DER, 422 FT RIGHT OF CENTERLINE, 11 FT AGL/4670 FT MSL. FENCE, 99 FT FROM DER, 423 FT LEFT OF CENTERLINE, 10 FT AGL/4665 FT MSL.

NOTE: RWY 35, MULTIPLE TREES, BEGINNING 1860 FT FROM DER, 595 FT RIGHT OF CENTERLINE, UP TO 67 FT AGL/4785 FT MSL. TREE 2854 FT FROM DER, 524 FT LEFT OF CENTERLINE, 73 FT AGL/4770 FT MSL.

FORT COLLINS-LOVELAND MUNI:

NOTE: RWY 33, TREES, BEGINNING 833 FT FROM DER, 516 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/5025 FT MSL. MULTIPLE POLES BEGINNING 567 FT FROM DER, 540 FT LEFT OF CENTERLINE, 26 FT AGL/4995 FT MSL

CONTROLLING OBSTACLES:

CENTENNIAL:

RWY 10: 6520 FT MSL TWR 393024.00N/1044604.00W.

RWY 17L: 6559 FT MSL AAO 392953.93N/1045044.26W.



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RWY 17R: 6021 FT MSL OBS LT ON BLDG 393302.52N/1045119.43W, 6559 FT MSL AAO 392953.93N/1045044.26W

LOST COMMUNICATIONS PROCEDURES:

IF NO TRANSMISSIONS ARE RECEIVED WITHIN ONE MINUTE AFTER DEPARTURE, MAINTAIN ASSIGNED HEADING UNTIL 7000 FEET, THEN CLIMB TO FILED ALTITUDE VIA DIRECT DEN VOR/DME, THENCE VIA ASSIGNED TRANSITION. IF FILED ALTITUDE IS ABOVE 10000 FEET, CROSS DEN VOR/DME AT OR ABOVE 11000 FEET.

ADDITIONAL FLIGHT DATA:

CHART MBW R-213 TO NATII, CYS R-060 TO HANKI, CYS R-194 TO YAMMI, GLL R-034 TO COPLA.
DENVER INTL- CHART: TOP ALTITUDE: 10000
CENTENNIAL-CHART: TOP ALTITUDE: ASSIGNED BY ATC.
ROCKY MOUNTAIN METRO-CHART: TOP ALTITUDE: ASSIGNED BY ATC.
BUCKLEY AFB-CHART: TOP ALTITUDE: ASSIGNED BY ATC.
FRONT RANGE: TOP ALTITUDE: ASSIGNED BY ATC.
GREELEY WELD COUNTY-CHART: TOP ALTITUDE: ASSIGNED BY ATC.
FORT COLLINS-LOVELAND MUNI-CHART: TOP ALTITUDE: ASSIGNED BY ATC.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
DENVER INTL	DENVER,	CO
ROCKY MOUNTAIN METROPOLITAN	DENVER,	CO
BUCKLEY AFB	AURORA,	CO
CENTENNIAL	DENVER,	CO
FRONT RANGE	DENVER,	CO
GREELEY-WELD COUNTY	GREELEY,	CO
FORT COLLINS-LOVELAND MUNI	FORT COLLINS/LOVELAND, CO	CO

COMMUNICATIONS:

CHART COMMUNICATIONS FOR ATIS, CLEARANCE DELIVERY, DEP CON

FIXES AND/OR NAVAIDS:

YOKES

REMARKS:

MVA/MIA OBSTACLE CLEARANCE WILL BE PROVIDED ON TRANSITION ROUTES UNTIL AIRCRAFT REACHES MEA.
FOR THOSE AIRPORTS THAT HAVE RESTRICTIONS ON INITIAL DIVERSE VECTORS OFF THE AIRPORT- RESTRICTIONS ARE LIFTED ONCE AIRCRAFT REACHES MINIMUM VECTORING ALTITUDE AND ATC COMMENCES VECTORING AIRCRAFT TO TRANSITION.
ADDED MOCA'S TO HANKI TRANSITION BETWEEN DEN VOR/DME AND COPLA AND COPLA TO HANKI. - ATC REQUESTED

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ADDED MOCAS TO RAPID CITY TRANSITION BETWEEN DEN VOR/DME AND GLL VOR/DME, AND GLL VOR/DME RAPID CITY VORTAC.-ATC REQUESTED.

FLIGHT INSPECTED BY: *Digitally signed by*
BEV L BORDY
CHARLES CUNNINGHAM Nov 07, 2016

OFFICE SYMBOL: **DATE:**
FIOG 11/3/2016

DEVELOPED BY: *Digitally signed by*
AJ FIELDS
Aug 08, 2016

OFFICE SYMBOL: **DATE:**
AJV-5431 08/062/16

APPROVED BY: *Digitally signed by*
BEV L BORDY
LONNIE EVERHART Nov 07, 2016

OFFICE SYMBOL: **DATE:**
AJV 5430

REQUIRED EFFECTIVE DATE:
ROUTINE

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:

CHANGES - REASONS:

CHANGES:

1. HEADER INFORMATION: CHANGED DP NUMBERING FROM NINE TO ONE, DP COMPUTER CODE FROM YELLO9.DEN TO YELLO1.DEN, CHANGED SUPERSEDED NUMBER FROM EIGHT TO NINE DATE FROM 9/18/14 TO 11/13/2014.
2. TRANSITION ROUTES
COMPUTER CODE CHANGED FROM YELLO9.LAR, YELLO9.MBW, YELLO9.CYS, YELLO9.BFF, YELLO9.HANKI AND YELLO9.NATTI TO YELLO1.LAR, YELLO1.MBW, YELLO1.CYS, YELLO1.BFF, YELLO1.HANKI, YELLO1.NATTI, YELLO1.RAP
3. ADDED NOTE: CHART TOP ALTTIUDE ASSIGNED BY ATC FOR ROCKY MOUNTAIN METRO, BUCKLEY AFB, FRONT RANGE, GREELY WELD COUNTY AND FT COLLINS-LOVELAND MUNI.
4. ADDED CROSSING ALTITUDE AT OR ABOVE 12000 AT YAMMI ON MBW TRANSITION.

REASONS:

- 1 AND 2 HEADER INFORMATION AND COMPUTER CODE REQUIRED CHANGES WHEN PROCEDURE REQUIRES AN AMENDMENT.
3. REQUIRED NOTE.
4. REQUIRED FOR NAVAID RECEPTION.

QUALITY
3
CHECKED