

**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SUPERSEDED NUMBER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>
SOLAR						FOUR	SOLAR4.DAAYE	THREE	11/13/2014	13 SEP 2018
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>					
	☐	☐	☒	☐	☒					

DP ROUTE DESCRIPTION:
DENVER INT:

TAKEOFF RWY 8: CLIMB HEADING 082.53 TO INTERCEPT COURSE 105.72 TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 153.76 TO TWWIN, THEN ON TRACK 191.56 TO TAIL, THEN ON TRACK 202.01 TO CROSS FIGTR AT OR ABOVE 14000, THEN ON TRACK 208.53 TO CROSS LOADD AT OR ABOVE 16000, THEN ON TRACK 226.40 TO SOLAR, THENCE ...

TAKEOFF RWY 16L: CLIMB HEADING 172.51 TO 5934 DIRECT BOGEI, THEN ON TRACK 174.40 TO CROSS IIINN AT OR BELOW 10000, THEN ON TRACK 175.35 TO CROSS SIGHT AT OR BELOW 12000, THEN ON TRACK 174.96 TO CROSS WEPNS AT OR ABOVE 12000, THEN ON TRACK 194.65 TO CROSS LOCKD AT OR ABOVE 14000, THEN ON TRACK 225.77 TO CROSS ONNNN AT OR ABOVE 15000, THEN ON TRACK 225.73 TO SOLAR, THENCE ...

TAKEOFF RWY 16R: CLIMB HEADING 172.51 TO 5934, THEN CLIMBING RIGHT TURN DIRECT BOGEI, THEN ON TRACK 174.40 TO CROSS IIINN AT OR BELOW 10000, THEN ON TRACK 175.35 TO CROSS SIGHT AT OR BELOW 12000, THEN ON TRACK 174.96 TO CROSS WEPNS AT OR ABOVE 12000, THEN ON TRACK 194.65 TO CROSS LOCKD AT OR ABOVE 14000, THEN ON TRACK 225.77 TO CROSS ONNNN AT OR ABOVE 15000, THEN ON TRACK 225.73 TO SOLAR, THENCE ...

TAKEOFF RWY 17L: CLIMB HEADING 172.54 TO INTERCEPT COURSE 196.71 TO BOGEI, THEN ON TRACK 174.40 TO CROSS IIINN AT OR BELOW 10000, THEN ON TRACK 175.35 TO CROSS SIGHT AT OR BELOW 12000, THEN ON TRACK 174.96 TO CROSS WEPNS AT OR ABOVE 12000, THEN ON TRACK 194.65 TO CROSS LOCKD AT OR ABOVE 14000, THEN ON TRACK 225.77 TO CROSS ONNNN AT OR ABOVE 15000, THEN ON TRACK 225.73 TO SOLAR, THENCE ...

TAKEOFF RWY 17R: CLIMB HEADING 172.53 TO INTERCEPT COURSE 188.02 TO BOGEI, THEN ON TRACK 174.40 TO CROSS IIINN AT OR BELOW 10000, THEN ON TRACK 175.35 TO CROSS SIGHT AT OR BELOW 12000, THEN ON TRACK 174.96 TO CROSS WEPNS AT OR ABOVE 12000, THEN ON TRACK 194.65 TO CROSS LOCKD AT OR ABOVE 14000, THEN ON TRACK 225.77 TO CROSS ONNNN AT OR ABOVE 15000, THEN ON TRACK 225.73 TO SOLAR, THENCE ...

TAKEOFF RWY 25: CLIMB HEADING 262.51 AT OR BELOW 230 KIAS TO INTERCEPT COURSE 243.28 TO CROSS BRKEM AT OR BELOW 10000, THEN ON TRACK 221.03 TO NMBSS. THEN ON TRACK 181.40 TO CROSS LENNN AT OR ABOVE 10000 AT OR BELOW 280 KIAS, THEN ON TRACK 161.46 TO TIKLR, THEN ON TRACK 143.63 TO CROSS CIROS AT OR ABOVE 14000, THEN ON TRACK 177.05 TO CROSS RKYMT AT OR ABOVE 16000, THEN ON TRACK 202.06 TO CROSS HIGHH AT OR ABOVE 17000, THEN ON TRACK 211.60 TO SOLAR, THENCE ...

TAKEOFF RWY 34L: CLIMB HEADING 352.51 TO 5934 AT OR BELOW 230 KIAS, THEN CLIMBING LEFT TURN DIRECT TO CROSS BRKEM AT OR BELOW 10000, THEN ON TRACK 221.03 TO NMBSS, THEN ON TRACK 181.40 TO CROSS LENNN AT OR ABOVE 10000 AT OR BELOW 280 KIAS, THEN ON TRACK 161.46 TO TIKLR, THEN ON TRACK 143.63 TO CROSS CIROS AT OR ABOVE 14000, THEN ON TRACK 177.05 TO CROSS RKYMT AT OR ABOVE 16000, THEN ON TRACK 202.06 TO CROSS HIGHH AT OR ABOVE 17000, THEN ON TRACK 211.60 TO SOLAR, THENCE ...

TAKEOFF RWY 34R: CLIMB HEADING 352.51 TO 5934 AT OR BELOW 230 KIAS, THEN CLIMBING LEFT TURN DIRECT TO CROSS BRKEM AT OR BELOW 10000, THEN ON TRACK 221.03 TO NMBSS, THEN ON TRACK 181.40 TO CROSS LENNN AT OR ABOVE 10000 AT OR BELOW 280 KIAS, THEN ON TRACK 161.46 TO TIKLR, THEN ON TRACK 143.63 TO CROSS CIROS AT OR ABOVE 14000, THEN ON TRACK 177.05 TO CROSS RKYMT AT OR ABOVE 16000, THEN ON TRACK 202.06 TO CROSS HIGHH AT OR ABOVE 17000, THEN ON TRACK 211.60 TO SOLAR, THENCE ...

TAKEOFF RWY 35L: CLIMB HEADING 352.53 TO 5934, THEN CLIMBING RIGHT TURN DIRECT TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 153.76 TO TWWIN, THEN ON TRACK 191.56 TO TAIL. THEN ON TRACK 202.01 TO CROSS FIGTR AT OR ABOVE 14000, THEN ON TRACK 208.53 TO CROSS LOADD AT OR ABOVE 16000, THEN ON TRACK 226.40 TO SOLAR, THENCE ...

TAKEOFF RWY 35R: CLIMB HEADING 352.54 TO 5934, THEN CLIMBING RIGHT TURN DIRECT TO CROSS KIDNG AT OR BELOW 10000, THEN ON TRACK 153.76 TO TWWIN, THEN ON TRACK 191.56 TO TAIL, THEN ON TRACK 202.01 TO CROSS FIGTR AT OR ABOVE 14000, THEN ON TRACK 208.53 TO CROSS LOADD AT OR ABOVE 16000, THEN ON TRACK 226.40 TO SOLAR, THENCE ...

... ON DEPICTED ROUTE TO DAAYE. MAINTAIN FL230 OR FILED LOWER ALTITUDE. EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

QUALITY
20
CHECKED

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FLIGHT STANDARDS SERVICE
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CENTENNIAL:

TAKEOFF RWY 17L, 17R: CLIMB HEADING 169.95 TO 6400, THEN CONTINUE CLIMB HEADING 169.95 OR AS ASSIGNED BY ATC, THENCE ...

TAKEOFF RWY 35L, 35R: CLIMB HEADING 349.95 TO 6400, THEN CONTINUE CLIMB HEADING 349.95 OR AS ASSIGNED BY ATC, THENCE ...

... RADAR VECTORS TO SOLAR. THEN ON DEPICTED ROUTE TO DAAYE. MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ROCKY MOUNTAIN METROPOLITAN:

TAKEOFF RWY 12L, 12R: CLIMB HEADING BETWEEN 150 CCW 350 AS ASSIGNED BY ATC. THENCE ...

TAKEOFF RWY 30L, 30R: CLIMBING RIGHT TURN HEADING BETWEEN 350 CW 113 AS ASSIGNED BY ATC. THENCE ...

... RADAR VECTORS TO SOLAR. THEN ON DEPICTED ROUTE TO DAAYE. MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

NORTHERN COLORADO RGNL:

TAKEOFF RWY 15: CLIMB HEADING BETWEEN 180 CCW 350 AS ASSIGNED BY ATC. THENCE ...

TAKEOFF RWY 33: CLIMBING RIGHT TURN HEADING BETWEEN 350 CW 150 AS ASSIGNED BY ATC. THENCE ...

... RADAR VECTORS TO SOLAR. THEN ON DEPICTED ROUTE TO DAAYE. MAINTAIN FL230 OR FILED LOWER ALTITUDE, EXPECT HIGHER FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

FRONT RANGE:

TAKEOFF RWY 8: CLIMB HEADING 083.15 TO 6020, THEN CONTINUE CLIMB HEADING 083.15 OR AS ASSIGNED BY ATC, THENCE ...

TAKEOFF RWY 17: CLIMB HEADING 171.99 TO 6020, THEN CONTINUE CLIMB HEADING 171.99 OR AS ASSIGNED BY ATC, THENCE ...

TAKEOFF RWY 26: CLIMB HEADING 263.17 TO 6020, THEN CONTINUE CLIMB HEADING 263.17 OR AS ASSIGNED BY ATC, THENCE ...

TAKEOFF RWY 35: CLIMB HEADING 351.99 TO 6020, THEN CONTINUE CLIMB HEADING 351.99 OR AS ASSIGNED BY ATC, THENCE ...

... RADAR VECTORS TO SOLAR. THEN ON DEPICTED ROUTE TO DAAYE. 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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PROCEDURAL DATA NOTES:

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: RNAV 1.

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

NOTE: TURBOJETS ONLY.

NOTE: DENVER INTL - TAKEOFF RWY 8, 16L, 16R, 17L, 17R, 25, 34L, 34R, 35L, 35R - RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

NOTE: CENTENNIAL, ROCKY MOUNTAIN METROPOLITAN, NORTHERN COLORADO RGNL AND FRONT RANGE - RADAR REQUIRED.



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TAKEOFF MINIMUMS:**DENVER INTL:****RWYS 7, 26:** NA - ATC.**RWY 8:** STANDARD WITH MINIMUM CLIMB OF 475 FT PER NM TO 5934, THEN MINIMUM CLIMB OF 275 FT PER NM TO 16000.**RWY 16L:** STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 5934, THEN MINIMUM CLIMB OF 290 FT PER NM TO 13000.**RWY 16R:** STANDARD WITH MINIMUM CLIMB OF 380 FT PER NM TO 5934, THEN MINIMUM CLIMB OF 265 FT PER NM TO 13000.**RWY 17L:** STANDARD WITH MINIMUM CLIMB OF 380 FT PER NM TO 5934, THEN MINIMUM CLIMB OF 265 FT PER NM TO 14000.**RWY 17R:** STANDARD WITH MINIMUM CLIMB OF 435 FT PER NM TO 5934, THEN MINIMUM CLIMB OF 270 FT PER NM TO 14000.**RWY 25:** STANDARD WITH MINIMUM CLIMB OF 415 FT PER NM TO 9000, THEN MINIMUM CLIMB OF 285 FT PER NM TO 16000.**RWY 34L:** STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 8000, THEN MINIMUM CLIMB OF 285 FT PER NM TO 13000.**RWY 34R:** STANDARD WITH MINIMUM CLIMB OF 390 FT PER NM TO 8000, THEN MINIMUM CLIMB OF 270 FT PER NM TO 14000.**RWY 35L:** STANDARD WITH MINIMUM CLIMB OF 450 FT PER NM TO 5934, THEN MINIMUM CLIMB OF 260 FT PER NM TO 16000.**RWY 35R:** STANDARD WITH MINIMUM CLIMB OF 410 FT PER NM TO 5934, THEN MINIMUM CLIMB OF 260 FT PER NM TO 16000.**CENTENNIAL:****RWY 10, 28:** NA - ATC.**RWY 17L:** STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 17000.**RWY 17R:** STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 8000, THEN MINIMUM CLIMB OF 310 FT PER NM TO 17000.**RWY 35L, 35R:** STANDARD WITH MINIMUM CLIMB OF 270 FT PER NM TO 17000.**ROCKY MOUNTAIN METROPOLITAN:****RWY 3, 21:** NA - ATC.**RWY 12R, 12L, 30R, 30L:** STANDARD.**NORTHERN COLORADO RGNL:****RWY 6, 24:** NA - VFR RUNWAY.**RWY 15, 33:** STANDARD.**FRONT RANGE:****RWY 8, 17, 26, 35:** STANDARD.**TAKEOFF OBSTACLES NOTES:****DENVER INTL:**

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

ROCKY MOUNTAIN METROPOLITAN:

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

CENTENNIAL:

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

NORTHERN COLORADO RGNL:

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

FRONT RANGE:

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

CONTROLLING OBSTACLES:**CENTENNIAL:****RWY 17L:** 6559 FT MSL AAO 392953.93N/1045044.26W.

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

DENVER INTL:

RWY 16L, 16R, 17L, 17R, 25, 34L, 34R, 35L, 35R: 13494 FT MSL AAO 395114.70N/1054121.90W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

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

DME/DME ASSESSMENT: SAT (RNP 2.0).

ALL AIRPORTS - CHART: TOP ALTITUDE: FL230.

PILOT NAVIGATION AREA: 10 NM ARC CENTERED ON SOLAR (IF), CW

FROM: POINT A (BEARING 154 DEGREES TO SOLAR)

TO: POINT B (BEARING 244 DEGREES TO SOLAR)

MINIMUM ALTITUDE - 17000.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
DENVER INTL (KDEN)	DENVER	CO
CENTENNIAL (KAPA)	DENVER	CO
ROCKY MOUNTAIN METROPOLITAN (KBJC)	DENVER	CO
NORTHERN COLORADO RGNL (KFNL)	FORT COLLINS/LOVELAND	CO
FRONT RANGE (KFTG)	DENVER	CO

COMMUNICATIONS:

DENVER INTERNATIONAL: D-ATIS DEP, CLNC DEP, CPDLC, DEN DEP CON

CENTENNIAL: ATIS, CLNC DEL, DEN DEP CON

ROCKY MOUNTAIN METROPOLITAN: ATIS, CLNC DEL, DEN DEP CON

NORTHERN COLORADO RGNL: DEN DEP CON

FRONT RANGE: ATIS, CLNC DEL, DEN DEP CON, DEN CLNC DEL (WHEN TOWER CLOSED)

FIXES AND/OR NAVAIDS:

WEEZR

REMARKS:

ABBREVIATED AMENDMENT

CLIMB GRADIENTS AT CENTENNIAL OFF RWY 17L/R ARE OBSTACLE DRIVEN WITH THE CLIMB TO ALTITUDE DETERMINED BY LOCATION OF 8000 MVA AND PROXIMITY TO HIGHER MVA'S.

DENVER INTL CLIMB GRADIENTS ARE FOR FMS ENGAGEMENT AT SPECIFIC LOCATIONS, FOR TRANSITON CROSSING ALTITUDES AND SOLAR PNA BOUNDARY AT/ABOVE 17000.

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

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

KBJC RWY 12L, 12R, 30L, 30R: FLIGHT TRACK DISTANCE TO SOLAR PNA BOUNDARY 68 NM PER ATC.

KAPA RWY 17L, 17R: FLIGHT TRACK DISTANCE TO SOLAR PNA BOUNDARY 36 NM PER ATC.

KAPA RWY 35L, 35R: FLIGHT TRACK DISTANCE TO SOLAR PNA BOUNDARY 42 NM PER ATC.

KFNL RWY 15, 33: FLIGHT TRACK DISTANCE TO SOLAR PNA BOUNDARY 95 NM PER ATC.

KFTG RWY 8, 17, 26, 35: FLIGHT TRACK DISTANCE TO SOLAR PNA BOUNDARY 58 NM PER ATC.

FLIGHT INSPECTED BY:

OFFICE SYMBOL:

DATE:

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-333) MEMO, DEC 22, 2017.

DEVELOPED BY: *Digitally signed by*
LONNIE EVERHART
(TARA N.MARTINELLI)
DONALD H LANIER
Jul 11, 2018

Digitally signed by
DONALD H LANIER **OFFICE SYMBOL:** **DATE:**
Jul 11, 2018 AJV-5400 04/13/2018

APPROVED BY: *Digitally signed by*
LONNIE EVERHART
DONALD H LANIER
Jul 11, 2018

OFFICE SYMBOL: **DATE:**
AJV-5400

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☒	☒	☒	☒	☐	☒

OTHER:

ZDV, BJC ATCT, DEN APP CON, CO AERO MGR, AMGR'S

CHANGES - REASONS:

1. CHANGED ALL REFERENCES TO FORT COLLINS - LOVELAND MUNI TO NORTHERN COLORADO RGNL - AIRPORT NAME CHANGE EFFECTIVE 2/1/2018
2. CHANGED CENTENNIAL, ROCKY MOUNTAIN METROPOLITAN, NORTHERN COLORADO RGNL, AND FRONT RANGE THENCE INSTRUCTIONS TO REMOVED "EXPECT RADAR VECTORS" AND REPLACED WITH "RADAR VECTORS" - PER THE 8260-46F, 1-1-6, "EXPECT" CANNOT BE USED WHEN REFERRING TO RADAR VECTORS.
3. REMOVED TAKEOFF OBSTACLE NOTES AT ALL AIRPORTS AND REPLACED WITH "SEE 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP) - TAKEOFF OBSTACLE NOTES ARE NO LONGER REQUIRED ON SID'S PER MEMO #259, WAIVER REQUEST, FAA ORDER 8260.46F.
4. PILOT NAVIGATION AREA: CHANGED POINT A BEARING FROM 153.68 TO 154 AND POINT B BEARING FROM 243.68 TO 244 - IAW FAA ORDER 8260.46F DOCUMENTATION CRITERIA.
5. COMMUNICATIONS BLOCK: MATCHED AND/OR STANDERDIZED TO CURRENT FREQUENCIES ON PUBLISHED TPP - COORDINATED/VERIFIED WITH FPT/ATC.
6. REMARKS BLOCK: WAIVER INFORMATION ADDED IN REFERENCE TO NAMING CONVENTION IAW FAO 8260.46F.
7. COORDINATED WITH BLOCK: ADDED A4A AND REMOVED ATA FROM OTHER - AIRPORT SERVED BY SCHEDULED AIR CARRIERS/ATA REPLACED BY A4A.
8. 8260-15C: UPDATED CENTENNIAL (KAPA) RWY 17L, 17R (AER) LAT/LONG COORDINATES - TO MATCH COORDINATES REFLECTED IN AIRNAV.
9. 8260-15C: UPDATED FRONT RANGE (KFTG) RWY 17, 26, 35 (AER) LAT/LONG COORDINATES - TO MATCH COORDINATES REFLECTED IN AIRNAV.

QUALITY
20
CHECKED

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DEPARTURE (DATA RECORD)**

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SOLAR		FOUR		SOLAR4.DAAYE		THREE		11/13/2014		13 SEP 2018	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
DENVER INTL	(KDEN)										
RW08 (AER)	395239.20N/1043944.03W	N	-	-	-	-			CG 475 FT PER NM TO 5934 THEN CG 275 FT PER NM TO 16000		
	395237.32N/1043524.94W	-	-	VI	090.53	3.32			RECOMMENDED NAVAID: DENVER VOR/DME		
KIDNG	394837.67N/1042339.58W	Y	FB	CF	113.72	9.90	AT/BELOW 10000				
TWWIN	394340.90N/1042132.89W	Y	FB	TF	161.76	5.20					
TAIIL	393816.75N/1042401.83W	Y	FB	TF	199.56	5.73					
FIGTR	392943.58N/1043024.31W	Y	FB	TF	210.01	9.87	AT/ABOVE 14000				
LOADD	392436.51N/1043517.40W	Y	FB	TF	216.53	6.36	AT/ABOVE 16000				
SOLAR	390847.92N/1050332.82W	Y	FB	TF	234.40	27.04					
RW16L (AER)	395349.33N/1044112.50W	N	-	-	-	-			CG 400 FT PER NM TO 5934 THEN CG 290 FT PER NM TO 13000		
5934 MSL	-	-	-	VA	180.51	-					
BOGEI	394314.08N/1044137.14W	Y	FB	DF	-	-					
IIINN	393857.67N/1044151.07W	Y	FB	TF	182.40	4.27	AT/BELOW 10000				
SIGHT	393445.47N/1044210.17W	Y	FB	TF	183.35	4.21	AT/BELOW 12000				
WEPNS	392548.27N/1044246.03W	Y	FB	TF	182.96	8.96	AT/ABOVE 12000				
LOCKD	391824.16N/1044644.55W	Y	FB	TF	202.65	8.01	AT/ABOVE 14000				
ONNNN	391531.54N/1045147.41W	Y	FB	TF	233.77	4.86	AT/ABOVE 15000				
SOLAR	390847.92N/1050332.82W	Y	FB	TF	233.73	11.34					
RW16R (AER)	395344.87N/1044145.90W	N	-	-	-	-			CG 380 FT PER NM TO 5934 THEN CG 265 FT PER NM TO 13000		
5934 MSL	-	-	-	VA	180.51	-					

QUALITY 20

QUALITY
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
BOGEI	394314.08N/1044137.14W	Y	FB	DF	-	-					
IIINN	393857.67N/1044151.07W	Y	FB	TF	182.40	4.27	AT/BELOW 10000				
SIGHT	393445.47N/1044210.17W	Y	FB	TF	183.35	4.21	AT/BELOW 12000				
WEPNS	392548.27N/1044246.03W	Y	FB	TF	182.96	8.96	AT/ABOVE 12000				
LOCKD	391824.16N/1044644.55W	Y	FB	TF	202.65	8.01	AT/ABOVE 14000				
ONNNN	391531.54N/1045147.41W	Y	FB	TF	233.77	4.86	AT/ABOVE 15000				
SOLAR	390847.92N/1050332.82W	Y	FB	TF	233.73	11.34					
RW17L (AER)	395153.83N/1043828.70W	N	-	-	-	-				CG 380 FT PER NM TO 5934 THEN CG 256 FT PER NM TO 14000	
	394826.14N/1043831.25W	-	-	VI	180.54	3.46				RECOMMENDED NAVAID: DENVER VOR/DME	
BOGEI	394314.08N/1044137.14W	Y	FB	CF	204.71	5.72					
IIINN	393857.67N/1044151.07W	Y	FB	TF	182.40	4.27	AT/BELOW 10000				
SIGHT	393445.47N/1044210.17W	Y	FB	TF	183.35	4.21	AT/BELOW 12000				
WEPNS	392548.27N/1044246.03W	Y	FB	TF	182.96	8.96	AT/ABOVE 12000				
LOCKD	391824.16N/1044644.55W	Y	FB	TF	202.65	8.01	AT/ABOVE 14000				
ONNNN	391531.54N/1045147.41W	Y	FB	TF	233.77	4.86	AT/ABOVE 15000				
SOLAR	390847.92N/1050332.82W	Y	FB	TF	233.73	11.34					
RW17R (AER)	395140.48N/1043936.56W	N	-	-	-	-				CG 435 FT PER NM TO 5934 THEN CG 270 FT PER NM TO 14000	
	394832.31N/1043938.82W	-	-	VI	180.53	3.13				RECOMMENDED NAVAID: DENVER VOR/DME	
BOGEI	394314.08N/1044137.14W	Y	FB	CF	196.02	5.51					
IIINN	393857.67N/1044151.07W	Y	FB	TF	182.40	4.27	AT/BELOW 10000				

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**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
SOLAR							FOUR	SOLAR4.DAAYE	THREE	11/13/2014	13 SEP 2018
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
SIGHT	393445.47N/1044210.17W	Y	FB	TF	183.35	4.21	AT/BELOW 12000				
WEPNS	392548.27N/1044246.03W	Y	FB	TF	182.96	8.96	AT/ABOVE 12000				
LOCKD	391824.16N/1044644.55W	Y	FB	TF	202.65	8.01	AT/ABOVE 14000				
ONNNN	391531.54N/1045147.41W	Y	FB	TF	233.77	4.86	AT/ABOVE 15000				
SOLAR	390847.92N/1050332.82W	Y	FB	TF	233.73	11.34					
RW25 (AER)	395026.37N/1044102.17W	N	-	-	-	-	CG 415 FT PER NM TO 9000 THEN CG 285 FT PER NM TO 16000				
	395028.14N/1044525.79W	-	-	VI	270.51	3.38	AT/BELOW 230K	RECOMMENDED NAVAID: DENVER VOR/DME			
BRKEM	394850.92N/1045147.63W	Y	FB	CF	251.28	5.16	AT/BELOW 10000				
NMBSS	394642.49N/1045459.23W	Y	FB	TF	229.03	3.26					
LENNN	394315.02N/1045543.70W	Y	FB	TF	189.40	3.50	AT/ABOVE 10000	AT/BELOW 280K			
TIKLR	393734.30N/1045421.73W	Y	FB	TF	169.46	5.77					
CIROS	392959.92N/1044905.10W	Y	FB	TF	151.63	8.60	AT/ABOVE 14000				
RKYMT	392410.25N/1044944.94W	Y	FB	TF	185.05	5.85	AT/ABOVE 16000				
HIGHH	391613.11N/1045540.16W	Y	FB	TF	210.06	9.18	AT/ABOVE 17000				
SOLAR	390847.92N/1050332.82W	Y	FB	TF	219.60	9.61					
RW34L (AER)	395106.79N/1044147.72W	N	-	-	-	-	CG 400 FT PER NM TO 8000 THEN CG 285 PER NM TO 13000				
5934 MSL	-	-	-	VA	000.51	-	AT/BELOW 230K				
BRKEM	394850.92N/1045147.63W	Y	FB	DF	-	-	AT/BELOW 10000				
NMBSS	394642.49N/1045459.23W	Y	FB	TF	229.03	3.26					
LENNN	394315.02N/1045543.70W	Y	FB	TF	189.40	3.50	AT/ABOVE 10000	AT/BELOW 280K	QUALITY 20		

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**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
SOLAR							FOUR	SOLAR4.DAAYE	THREE	11/13/2014	13 SEP 2018
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
TIKLR	393734.30N/1045421.73W	Y	FB	TF	169.46	5.77					
CIROS	392959.92N/1044905.10W	Y	FB	TF	151.63	8.60	AT/ABOVE 14000				
RKYMT	392410.25N/1044944.94W	Y	FB	TF	185.05	5.85	AT/ABOVE 16000				
HIGHH	391613.11N/1045540.16W	Y	FB	TF	210.06	9.18	AT/ABOVE 17000				
SOLAR	390847.92N/1050332.82W	Y	FB	TF	219.60	9.61					
RW34R (AER)	395150.77N/1044113.88W	N	-	-	-	-	CG 390 FT PER NM TO 8000 THEN CG 270 PER NM TO 14000				
5934 MSL	-	-	-	VA	000.51	-	AT/BELOW 230K				
BRKEM	394850.92N/1045147.63W	Y	FB	DF	-	-	AT/BELOW 10000				
NMBSS	394642.49N/1045459.23W	Y	FB	TF	229.03	3.26					
LENNN	394315.02N/1045543.70W	Y	FB	TF	189.40	3.50	AT/ABOVE 10000	AT/BELOW 230K			
TIKLR	393734.30N/1045421.73W	Y	FB	TF	169.46	5.77					
CIROS	392959.92N/1044905.10W	Y	FB	TF	151.63	8.60	AT/ABOVE 14000				
RKYMT	392410.25N/1044944.94W	Y	FB	TF	185.05	5.85	AT/ABOVE 16000				
HIGHH	391613.11N/1045540.16W	Y	FB	TF	210.06	9.18	AT/ABOVE 17000				
SOLAR	390847.92N/1050332.82W	Y	FB	TF	219.60	9.61					
RW35L (AER)	394941.93N/1043937.98W	N	-	-	-	-	CG 450 FT PER NM TO 5934 THEN CG 260 FT PER NM TO 16000				
5934 MSL		-	-	VA	000.53	-					
KIDNG	394837.67N/1042339.58W	Y	FB	DF	-	-	AT/BELOW 10000				
TWWIN	394340.90N/1042132.89W	Y	FB	TF	161.76	5.20					
TAIIL	393816.75N/1042401.83W	Y	FB	TF	199.56	5.73					

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**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME						NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
SOLAR						FOUR	SOLAR4.DAAYE	THREE	11/13/2014	13 SEP 2018
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS
FIGTR	392943.58N/1043024.31W	Y	FB	TF	210.01	9.87	AT/ABOVE 14000			
LOADD	392436.51N/1043517.40W	Y	FB	TF	216.53	6.36	AT/ABOVE 16000			
SOLAR	390847.92N/1050332.82W	Y	FB	TF	234.40	27.04				
RW35R (AER)	394955.27N/1043830.16W	N	-	-	-	-				CG 410 FT PER NM TO 5934 THEN CG 260 FT PER NM TO 16000
5934 MSL	-	-	-	VA	000.54	-				
KIDNG	394837.67N/1042339.58W	Y	FB	DF	-	-	AT/BELOW 10000			
TWWIN	394340.90N/1042132.89W	Y	FB	TF	161.76	5.20				
TAIIL	393816.75N/1042401.83W	Y	FB	TF	199.56	5.73				
FIGTR	392943.58N/1043024.31W	Y	FB	TF	210.01	9.87	AT/ABOVE 14000			
LOADD	392436.51N/1043517.40W	Y	FB	TF	216.53	6.36	AT/ABOVE 16000			
SOLAR	390847.92N/1050332.82W	Y	FB	TF	234.40	27.04				
SOLAR	390847.92N/1050332.82W	Y	-	IF	-	-				
WEEZR	383827.54N/1052258.02W	Y	FB	TF	206.68	33.89				
DAAYE	380040.43N/1054644.19W	Y	FB	TF	206.48	42.13				
CENTENNIAL	(KAPA)									
RW17L (AER)	393502.91N/1045105.31W	N	-	-	-	-				CG 310 FT PER NM TO 17000
6400 MSL	-	-	-	VA	177.95	-				
	-	-	-	VM	177.95	-				
SOLAR	390847.92N/1050332.82W	Y	FB	DF	-	-				

QUALITY
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**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
SOLAR							FOUR	SOLAR4.DAAYE	THREE	11/13/2014	13 SEP 2018
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW17R (AER)	393444.35N/1045113.39W	N	-	-	-	-			CG 370 FT PER NM TO 8000 THEN CG 310 FT PER NM TO 17000		
6400 MSL	-	-	-	VA	177.95	-					
	-	-	-	VM	177.95	-					
SOLAR	390847.92N/1050332.82W	Y	FB	DF	-	-					
RW35L (AER)	393335.23N/1045110.19W	N	-	-	-	-			CG 270 FT PER NM TO 17000		
6400 MSL	-	-	-	VA	357.95	-					
	-	-	-	VM	357.95	-					
SOLAR	390847.92N/1050332.82W	Y	FB	DF	-	-					
RW35R (AER)	393324.15N/1045100.76W	N	-	-	-	-			CG 270 FT PER NM TO 17000		
6400 MSL	-	-	-	VA	357.95	-					
	-	-	-	VM	357.95	-					
SOLAR	390847.92N/1050332.82W	Y	FB	DF	-	-					
SOLAR	390847.92N/1050332.82W	Y	-	IF	-	-					
WEEZR	383827.54N/1052258.02W	Y	FB	TF	206.68	33.89					
DAAYE	380040.43N/1054644.19W	Y	FB	TF	206.48	42.13					
ROCKY MOUNTAIN METROPOLITAN	(KBJC)										
SOLAR	390847.92N/1050332.82W	Y	-	IF	-	-					
WEEZR	383827.54N/1052258.02W	Y	FB	TF	206.68	33.89					

QUALITY

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**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>EFFECTIVE DATE</u>
SOLAR		FOUR		SOLAR4.DAAYE		THREE		11/13/2014	13 SEP 2018
<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>
DAAYE	380040.43N/1054644.19W	Y	FB	TF	206.48	42.13			
NORTHERN COLORADO RGNL		(KFNL)							
SOLAR	390847.92N/1050332.82W	Y	-	IF	-	-			
WEEZR	383827.54N/1052258.02W	Y	FB	TF	206.68	33.89			
DAAYE	380040.43N/1054644.19W	Y	FB	TF	206.48	42.13			
FRONT RANGE		(KFTG)							
RW08 (AER)	394738.42N/1043354.88W	N	-	-	-	-			
6020 MSL		-	-	VA	091.15	-			
		-	-	VM	091.15	-			
SOLAR	390847.92N/1050332.82W	Y	FB	DF	-	-			
RW17 (AER)	394708.14N/1043127.25W	N	-	-	-	-			
6020 MSL	-	-	-	VA	179.99	-			
	-	-	-	VM	179.99	-			
SOLAR	390847.92N/1050332.82W	Y	FB	DF	-	-			
RW26 (AER)	394736.82N/1043212.42W	N	-	-	-	-			
6020 MSL		-	-	VA	271.17	-			
		-	-	VM	271.17	-			
SOLAR	390847.92N/1050332.82W	Y	FB	DF	-	-			

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**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
SOLAR							FOUR	SOLAR4.DAAYE	THREE	11/13/2014	13 SEP 2018
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
RW35 (AER)	39549.10N/1043127.23W	N	-	-	-	-					
6020 MSL	-	-	-	VA	359.99	-					
	-	-	-	VM	359.99	-					
SOLAR	390847.92N/1050332.82W	Y	FB	DF	-	-					
SOLAR	390847.92N/1050332.82W	Y	-	IF	-	-					
WEEZR	383827.54N/1052258.02W	Y	FB	TF	206.68	33.89					
DAAYE	380040.43N/1054644.19W	Y	FB	TF	206.48	42.13					

