

**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.  
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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SUPERSEDED NUMBER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>
CLVIN	ONE	CLVIN1.CLVIN	NONE		19 JUL 2018
<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 checked="" type="checkbox"/>

**DP ROUTE DESCRIPTION:****DETROIT METROPOLITAN WAYNE COUNTY (KDTW):**

**TAKEOFF RWY 3L:** CLIMB ON HEADING 035.71 TO INTERCEPT COURSE 079.50 TO BESST, THEN ON TRACK 123.33 TO CROSS LAZYI AT OR BELOW 7000, THEN ON TRACK 208.32 TO WERKN, THEN ON TRACK 214.79 TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 3R:** CLIMB ON HEADING 035.71 TO INTERCEPT COURSE 071.65 TO BESST, THEN ON TRACK 123.33 TO CROSS LAZYI AT OR BELOW 7000, THEN ON TRACK 208.32 TO WERKN, THEN ON TRACK 214.79 TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 4L:** CLIMB ON HEADING 035.68 TO INTERCEPT COURSE 337.25 TO NITRN, THEN ON TRACK 309.54 TO CROSS FERRM AT OR BELOW 6000, THEN ON TRACK 258.76 TO CROSS AVERL AT OR BELOW 7000, THEN ON TRACK 197.39 TO OGEEZ, THEN ON TRACK 165.22 TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 4R:** CLIMB ON HEADING 035.70 TO INTERCEPT COURSE 327.10 TO NITRN, THEN ON TRACK 309.54 TO CROSS FERRM AT OR BELOW 6000, THEN ON TRACK 258.76 TO CROSS AVERL AT OR BELOW 7000, THEN ON TRACK 197.39 TO OGEEZ, THEN ON TRACK 165.22 TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 21L:** CLIMB ON HEADING 215.72 TO INTERCEPT COURSE 202.55 TO SERGY, THEN ON TRACK 200.87 TO FDROV, THEN ON TRACK 181.19 TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 21R:** CLIMB ON HEADING 215.72 TO INTERCEPT COURSE 201.00 TO SERGY, THEN ON TRACK 200.87 TO FDROV, THEN ON TRACK 181.19 TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 22L:** CLIMB ON HEADING 215.71 TO 1160, THEN DIRECT BOOSE, THEN ON TRACK 226.25 TO RATIO, THEN ON TRACK 164.97 TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 22R:** CLIMB ON HEADING 215.69 TO 1160, THEN DIRECT EEERI, THEN ON TRACK 224.01 TO RATIO, THEN ON TRACK 164.97 TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 27L:** CLIMB ON HEADING 275.73 TO 1160, THEN ON HEADING 275.71 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 27R:** CLIMB ON HEADING 275.72 TO 1160, THEN ON HEADING 275.70 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**WILLOW RUN (KYIP):**

**TAKEOFF RWY 5L:** CLIMB ON HEADING 053.71 TO 1220, THEN LEFT TURN HEADING 300.00 FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 5R:** CLIMB ON HEADING 053.70 TO 1220, THEN LEFT TURN HEADING 300.00 FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 9:** CLIMB ON HEADING 095.55 TO 1220, THEN LEFT TURN HEADING 300.00 FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 23L:** CLIMB ON HEADING 233.72 TO 1220, THEN ON HEADING 233.70 FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 23R:** CLIMB ON HEADING 233.73 TO 1220, THEN ON HEADING 233.72 FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 27:** CLIMB ON HEADING 275.57 TO 1220, THEN ON HEADING 275.56 FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**ANN ARBOR MUNI (KARB):**

**TAKEOFF RWY 6:** CLIMB ON HEADING 059.53 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 24:** CLIMB ON HEADING 239.53 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

QUALITY  
3  
CHECKED

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CLVIN	ONE	CLVIN1.CLVIN	NONE		19 JUL 2018

**COLEMAN A YOUNG MUNI (KDET):**

**TAKEOFF RWY 7:** CLIMB ON HEADING 068.30 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 15:** CLIMB ON HEADING 148.32 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 25:** CLIMB ON HEADING 248.31 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 33:** CLIMB ON HEADING 328.33 TO 1800 THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**CUSTER (KTTF):**

**TAKEOFF RWY 3:** CLIMB ON HEADING 027.49 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 21:** CLIMB ON HEADING 207.50 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**GROSSE ILE MUNI (KONZ):**

**TAKEOFF RWY 4:** CLIMB ON HEADING 037.34 TO 1200 THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 17:** CLIMB ON HEADING 173.78 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 22:** CLIMB ON HEADING 217.34 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 35:** CLIMB ON HEADING 005.78 TO 1800 THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**LIVINGSTON COUNTY SPENCER J HARDY (KOZW):**

**TAKEOFF RWY 13:** CLIMB ON HEADING 132.35 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 31:** CLIMB ON HEADING 312.36 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**OAKLAND COUNTY INTL (KPTK):**

**TAKEOFF RWY 9L:** CLIMB ON HEADING 094.66 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 9R:** CLIMB ON HEADING 094.63 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 27L:** CLIMB ON HEADING 274.65 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 27R:** CLIMB ON HEADING 274.68 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**OAKLAND/TROY (KVLL):**

**TAKEOFF RWY 9:** CLIMB ON HEADING 095.71 TO 1400 THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...  
**TAKEOFF RWY 27:** CLIMB ON HEADING 275.72 TO 1500 THEN AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.



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CLVIN	ONE	CLVIN1.CLVIN	NONE		19 JUL 2018

**SELFRIDGE ANGB (KMTG):**

**TAKEOFF RWY 1:** CLIMB ON HEADING 007.47 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 19:** CLIMB ON HEADING 187.47 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**WINDSOR (CYQG):**

**TAKEOFF RWY 7:** CLIMB ON HEADING 069.55 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 12:** CLIMB ON HEADING 122.61 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 25:** CLIMB ON HEADING 249.56 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

**TAKEOFF RWY 30:** CLIMB ON HEADING 302.60 OR AS ASSIGNED FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 4000, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, 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>
STAZE	CLVIN1.STAZE	CLVIN	RINTE	TRACK 205.55	35.30	10000		
		RINTE	PUUDL	TRACK 190.43	10.04	10000		
		PUUDL	STAZE	TRACK 190.44	59.28	10000		

**PROCEDURAL DATA NOTES:**

**NOTE:** RNAV 1

**NOTE:** RADAR REQUIRED

**NOTE:** DME/DME/IRU OR GPS REQUIRED.

**NOTE:** TURBOJET DEPARTURES AT/ABOVE 10000, MAINTAIN 280K UNTIL ADVISED BY ATC.

**TAKEOFF MINIMUMS:**

**DETROIT METROPOLITAN WAYNE COUNTY (KDTW):**

**RWY 3L, 3R, 4L, 4R, 21L, 21R:** STANDARD.

**RWY 22L, 22R, 27L, 27R:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1160.

**WILLOW RUN (KYIP):**

**RWY 5L, 5R, 9, 23L, 23R, 27:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1220.

**ANN ARBOR MUNI (KARB):**

**RWY 6, 24:** STANDARD.

**RWY 12, 30:** NA - ENVIRONMENTAL.

**COLEMAN A YOUNG MUNI (KDET):**

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CLVIN	ONE	CLVIN1.CLVIN	NONE		<b>19 JUL 2018</b>

**RWY 7, 15, 33:** STANDARD.

**RWY 25:** STANDARD WITH MINIMUM CLIMB OF 210 FEET PER NM TO 1000.

**CUSTER (KTTF):**  
STANDARD.

**GROSSE ILE MUNI (KONZ):**

**RWY 4, 17, 22:** STANDARD.

**RWY 35:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1100.

**LIVINGSTON COUNTY SPENCER J HARDY (KOZW):**  
STANDARD.

**OAKLAND COUNTY INTL (KPTK):**

**RWY 9L, 9R, 27L, 27R:** STANDARD.

**RWY 18, 36:** NA - ENVIRONMENTAL.

**OAKLAND/TROY (KVLL):**

**RWY 9:** STANDARD.

**RWY 27:** STANDARD WITH MINIMUM CLIMB OF 476 FT PER NM TO 1500.

**SELFRIDGE ANGB (KMTTC):**

**RWY 1:** STANDARD.

**RWY 19:** STANDARD WITH MINIMUM CLIMB OF 234 FT PER NM TO 1500.

**WINDSOR (CYQG):**

**RWY 7, 12, 25:** STANDARD.

**RWY 30:** STANDARD WITH MINIMUM CLIMB OF 210 FT PER NM TO 1300.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**

**WILLOW RUN (KYIP):**

**RWY 27:** 903 FT MSL TOWER 421431.78N/0833411.47W

**COLEMAN A YOUNG MUNI (KDET):**

**RWY 25:** 871 FT MSL STACK 422307.00N/0830235.00W

**RWY 33:** 1749 FT MSL TOWER 422653.00N/0831023.00W

**GROSSE ILE MUNI (KONZ):**

**RWY 35:** 1146 FT MSL STACK, 420718.61N/0831050.62W

**OAKLAND/TROY (KVLL):**

**RWY 27:** 940 FT MSL BLDG 423234.20N/0831235.50W (CG), 1749 FT MSL TOWER 422858.00N/0831219.00W (CGTA)

**SELFRIDGE ANGB (KMTTC):**

**RWY 19:** 1246 FT MSL TOWER 423315.00N/0825315.00W



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CLVIN	ONE	CLVIN1.CLVIN	NONE		19 JUL 2018

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: ASSIGNED BY ATC  
REFERENCE MAG VAR; KDTW 7W/2020  
DME/DME ASSESSMENT: SAT (RNP 2.0)

**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
DETROIT METROPOLITAN WAYNE COUNTY (KDTW)	DETROIT	MI
WILLOW RUN (KYIP)	DETROIT	MI
ANN ARBOR MUNI (KARB)	ANN ARBOR	MI
COLEMAN A YOUNG MUNI (KDET)	DETROIT	MI
CUSTER (KTTF)	MONROE	MI
GROSSE ILE MUNI (KONZ)	DETROIT/GROSSE ILE	MI
LIVINGSTON COUNTY SPENCER J HARDY (KOZW)	HOWELL	MI
OAKLAND COUNTY INTL (KPTK)	PONTIAC	MI
OAKLAND/TROY (KVLL)	TROY	MI
SELFRIDGE ANGB (KMTC)	MOUNT CLEMENS	MI
WINDSOR (CYQG)	WINDSOR, ONTARIO, CANADA	

**COMMUNICATIONS:**

ATIS, AWOS/ASOS, CLNC DEL, GND CON, TWR, CTAF, DEP CON

**FIXES AND/OR NAVAIDS:**



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CLVIN	ONE	CLVIN1.CLVIN	NONE		<b>19 JUL 2018</b>

**REMARKS:**

MOCA(S) NOT CHARTED PER ATC REQUEST TO REDUCE CHART CLUTTER.

CHANGES TO THIS PROCEDURE MUST BE COORDINATED WITH NAVCANADA, AERONAUTICAL INFORMATION MANAGEMENT (AIM), AIMDATA@NAVCANADA.CA (CURRENT POC IS CHARLES SIMARD, 613-248-3819, SIMACHA@NAVCANADA.CA).

**FLIGHT INSPECTED BY:**

BRENT BOOKER

**OFFICE SYMBOL:**

FICO

**DATE:**

2/27/18

*Digitally signed by***ROBERT G HAMILTON**

May 15, 2018

**DEVELOPED BY:**

LUCAS MCCLOUD

**OFFICE SYMBOL:**

AJV-5422

**DATE:**

12/07/2017

*Digitally signed by***ROBERT G HAMILTON**

May 15, 2018

**APPROVED BY:**

JULIE MORGAN

**OFFICE SYMBOL:**

AJV-5420

**DATE:***Digitally signed by***ROBERT G HAMILTON**

May 15, 2018

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:****A4A****ALPA****AOPA****APA****HAI****NBAA****OTHER:**

ZOB, DTW APP CON, AMGR

**CHANGES - REASONS:**

ORIGINAL - ATC REQUEST.

5/08/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/07/17.

1. CHANGED TOP ALTITUDE FROM 17000 TO ASSIGNED BY ATC.
2. CHANGED DEPARTURE ROUTE DESCRIPTIONS FROM MAINTAIN 17000 TO MAINTAIN ATC ASSIGNED ALTITUDE.

QUALITY  
3  
CHECKED

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

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CLVIN		ONE		CLVIN1.CLVIN		NONE				19 JUL 2018	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
	DETROIT METROPOLITAN WAYNE COUNTY (KDTW)										
RW03L (AER)	421228.21N/0832104.39W	N	-	-	-	-					
-	421527.18N/0831852.42W	-	-	VI	028.71	3.40					
BESST	421634.34N/0831406.10W	Y	FB	CF	072.50	3.72			RECOMMENDED NAVAID: AIR VOR/DME		
LAZYI	421325.22N/0830532.82W	Y	FB	TF	116.33	7.09	AT/BELOW 7000				
WERKN	415920.13N/0831254.75W	Y	FB	TF	201.32	15.11					
PHAUL	414232.50N/0832443.11W	Y	FB	TF	207.79	18.96	AT/ABOVE 4000				
RW03R (AER)	421144.21N/0832106.49W	N	-	-	-	-					
-	421456.06N/0831845.06W	-	-	VI	028.71	3.64					
BESST	421634.34N/0831406.10W	Y	FB	CF	064.65	3.82			RECOMMENDED NAVAID: AIR VOR/DME		
LAZYI	421325.22N/0830532.82W	Y	FB	TF	116.33	7.09	AT/BELOW 7000				
WERKN	415920.13N/0831254.75W	Y	FB	TF	201.32	15.11					
PHAUL	414232.50N/0832443.11W	Y	FB	TF	207.79	18.96	AT/ABOVE 4000				
RW04L (AER)	421207.82N/0832302.40W	N	-	-	-	-					
-	421519.64N/0832041.14W	-	-	VI	028.68	3.64					
NITRN	421901.35N/0832331.69W	Y	FB	CF	330.25	4.25			RECOMMENDED NAVAID: AIR VOR/DME		
FERRM	422158.09N/0832945.62W	Y	FB	TF	302.54	5.48	AT/BELOW 6000				
AVERL	421955.54N/0833805.48W	Y	FB	TF	251.76	6.51	AT/BELOW 7000				
OGEEZ	421131.27N/0834009.80W	Y	FB	TF	190.39	8.54					
PHAUL	414232.50N/0832443.11W	Y	FB	TF	158.22	31.18	AT/ABOVE 4000				

QUALITY

3

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QUALITY  
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CLVIN		ONE		CLVIN1.CLVIN		NONE			19 JUL 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>
RW04R (AER)*	421212.78N/0832213.32W*	N	-	-	-	-			*DISPL THLD (509 FT)
-	421537.57N/0831942.39W	-	-	VI	028.70	3.89			
NITRN	421901.35N/0832331.69W	Y	FB	CF	320.10	4.42			RECOMMENDED NAVAID: AIR VOR/DME
FERRM	422158.09N/0832945.62W	Y	FB	TF	302.54	5.48	AT/BELOW 6000		
AVERL	421955.54N/0833805.48W	Y	FB	TF	251.76	6.51	AT/BELOW 7000		
OGEEZ	421131.27N/0834009.80W	Y	FB	TF	190.39	8.54			
PHAUL	414232.50N/0832443.11W	Y	FB	TF	158.22	31.18	AT/ABOVE 4000		
RW21L (AER)	421310.86N/0832002.65W	N	-	-	-	-			
-	420959.08N/0832223.89W	-	-	VI	208.72	3.64			
SERGY	420429.17N/0832427.29W	Y	FB	CF	195.55	5.71			RECOMMENDED NAVAID: AIR VOR/DME
FDROV	415731.95N/0832645.35W	Y	FB	TF	193.87	7.16			
PHAUL	414232.50N/0832443.11W	Y	FB	TF	174.19	15.06	AT/ABOVE 4000		
RW21R (AER)	421341.85N/0832010.12W	N	-	-	-	-			
-	421042.70N/0832222.07W	-	-	VI	208.72	3.40			
SERGY	420429.17N/0832427.29W	Y	FB	CF	194.00	6.41			RECOMMENDED NAVAID: AIR VOR/DME
FDROV	415731.95N/0832645.35W	Y	FB	TF	193.87	7.16			
PHAUL	414232.50N/0832443.11W	Y	FB	TF	174.19	15.06	AT/ABOVE 4000		

QUALITY  
3  
CHECKED



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

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		EFFECTIVE DATE	
CLVIN		ONE		CLVIN1.CLVIN		NONE				19 JUL 2018	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
RW22L (AER)	421352.37N/0832059.97W	N	-	-	-	-					
1160 MSL	-	-	-	VA	208.71	-			CG 500 FT/NM TO 1160		
BOOSE	421008.18N/0832345.01W	Y	FB	DF	-	-					
RATIO	420025.84N/0833422.45W	Y	FB	TF	219.25	12.52					
PHAUL	414232.50N/0832443.11W	Y	FB	TF	157.97	19.28	AT/ABOVE 4000				
RW22R (AER)	421334.48N/0832158.61W	N	-	-	-	-					
1160 MSL	-	-	-	VA	208.69	-			CG 500 FT/NM TO 1160		
EEERI	421022.39N/0832419.94W	Y	FB	DF	-	-					
RATIO	420025.84N/0833422.45W	Y	FB	TF	217.01	12.44					
PHAUL	414232.50N/0832443.11W	Y	FB	TF	157.97	19.28	AT/ABOVE 4000				
RW27L (AER)	421158.34N/0831949.33W	N	-	-	-	-					
1160 MSL	-	-	-	VA	268.73	-			CG 500 FT/NM TO 1160		
-	-	-	-	VM	268.71	-					
RW27R (AER)	421303.02N/0831951.72W	N	-	-	-	-					
1160 MSL	-	-	-	VA	268.72	-			CG 500 FT/NM TO 1160		
-	-	-	-	VM	268.70	-					
QUALITY											
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QUALITY  
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CHECKED

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

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		EFFECTIVE DATE	
CLVIN		ONE		CLVIN1.CLVIN		NONE				19 JUL 2018	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
WILLOW RUN (KYIP)											
RW05L (AER)	421355.86N/0833230.06W	N	-	-	-	-					
1220 MSL	-	-	-	VA	046.71	-			CG 500 FT/NM TO 1220		
-	-	-	-	VM	293.00	-			LEFT TURN		
RW05R (AER)	421350.25N/0833223.46W	N	-	-	-	-					
1220 MSL	-	-	-	VA	046.70	-			CG 500 FT/NM TO 1220		
-	-	-	-	VM	293.00	-			LEFT TURN		
RW09 (AER)*	421438.37N/0833228.33W*	N	-	-	-	-			*DISPL THLD (576 FT)		
1220 MSL	-	-	-	VA	088.55	-			CG 500 FT/NM TO 1220		
-	-	-	-	VM	293.00	-			LEFT TURN		
RW23L (AER)	421441.34N/0833110.47W	N	-	-	-	-					
1220 MSL	-	-	-	VA	226.72	-			CG 500 FT/NM TO 1220		
-	-	-	-	VM	226.70	-					
RW23R (AER)	421436.47N/0833132.03W	N	-	-	-	-					
1220 MSL	-	-	-	VA	226.73	-			CG 500 FT/NM TO 1220		
-	-	-	-	VM	226.72	-					

QUALITY  
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CHECKED

**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>
CLVIN		ONE		CLVIN1.CLVIN		NONE			19 JUL 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>
RW27 (AER)	421440.03N/0833059.06W	N	-	-	-	-			
1220 MSL	-	-	-	VA	268.57	-			CG 500 FT/NM TO 1220
-	-	-	-	VM	268.56	-			
PHAUL	414232.50N/0832443.11W	Y	-	IF	-	-	AT/ABOVE 4000		
CLVIN	405046.21N/0834753.90W	Y	FB	TF	198.79	54.61			
CLVIN	405046.21N/0834753.90W	Y	-	IF	-	-		CLVIN1.STAZE	
RINTE	401716.11N/0840234.51W	Y	FB	TF	198.55	35.30			
PUUDL	400714.40N/0840321.44W	Y	FB	TF	183.43	10.04			
STAZE	390801.23N/0840755.49W	Y	FB	TF	183.44	59.28			

QUALITY  
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CHECKED