

**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SUPERSEDED NUMBER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>
DUHCK	ONE	DUHCK1.DUHCK	NONE		

<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 checked="" type="checkbox"/>

**DP ROUTE DESCRIPTION:**

FCM, ANE:

TAKEOFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR VECTORS TO GGREY, CROSS GGREY AT OR ABOVE 4000, THEN ON TRACK 224.63 TO DUHCK, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

STP:

TAKEOFF RWY 9: CLIMB ON HEADING 090.66 TO 1400, FOR VECTORS TO GGREY, THENCE...

TAKEOFF RWY 13: CLIMB ON HEADING 127.74 TO 1300, FOR VECTORS TO GGREY, THENCE...

TAKEOFF RWY 14: CLIMB ON HEADING 146.03 TO 1200, FOR VECTORS TO GGREY, THENCE...

TAKEOFF RWY 27: CLIMB ON HEADING 270.67 TO 1700, FOR VECTORS TO GGREY, THENCE...

TAKEOFF RWY 32: CLIMB ON HEADING 326.04 TO 1400, FOR VECTORS TO GGREY, THENCE...

...CROSS GGREY AT OR ABOVE 4000, THEN ON TRACK 224.63 TO DUHCK, 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>
LLUKY	DUHCK1.LLUKY	DUHCK	MGHTY	TRACK 230.94	15.08	4000	2400	
		MGHTY	GRRAT	TRACK 230.73	51.99	6000	3100	
		GRRAT	DDOWN	TRACK 230.06	41.50	10000	3100	
		DDOWN	LLUKY	TRACK 244.49	140.14	12000	3500	
SBRNA	DUHCK1.SBRNA	DUHCK	MGHTY	TRACK 230.94	15.08	4000	2400	
		MGHTY	IDEEA	TRACK 208.26	40.72	6000	3200	
		IDEEA	MDKNG	TRACK 207.92	34.47	10000	2900	
		MDKNG	SBRNA	TRACK 207.65	75.59	12000	3000	
STIER	DUHCK1.STIER	DUHCK	MGHTY	TRACK 230.94	15.08	4000	2400	
		MGHTY	GRRAT	TRACK 230.73	51.99	6000	3100	
		GRRAT	DDOWN	TRACK 230.06	41.50	10000	3100	
		DDOWN	STIER	TRACK 199.60	40.76	10000	3100	

QUALITY  
8  
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>
DUHCK	ONE	DUHCK1.DUHCK	NONE		

**PBN REQUIREMENT NOTES:**

RNAV 1 - DME/DME/IRU OR GPS.

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED.

**PROCEDURAL DATA NOTES:**

**TAKEOFF MINIMUMS:**

FCM:

RWY 10L/R, 18, 28L/R, 36: STANDARD.

ANE:

RWY 9: STANDARD WITH MINIMUM CLIMB OF 350 FT/NM TO 2900.

RWY 18: STANDARD WITH MINIMUM CLIMB OF 370 FT/NM TO 3000.

RWY 27, 36: STANDARD WITH MINIMUM CLIMB OF 260 FT/NM TO 2800.

STP:

RWY 31: NA-AIRPORT RESTRICTIONS.

RWY 9: STANDARD WITH MINIMUM CLIMB OF 310 FT/NM TO 1200.

RWY 13: STANDARD WITH MINIMUM CLIMB OF 240 FT/NM TO 1400.

RWY 14: STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 1500.

RWY 27: STANDARD WITH MINIMUM CLIMB OF 350 FT/NM TO 1100.

RWY 32: STANDARD WITH MINIMUM CLIMB OF 340 FT/NM TO 2500.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**

ANE:

RWY 9, 18, 27, 36: 2438 FT MSL TOWER 450344.83N/0930822.61W.

STP:

RWY 9: 977 FT MSL TREE 445624.13N/0930133.24W (CLIMB GRADIENT); 1058 FT MSL TREE 445602.90N/0930100.41W (CLIMB GRADIENT TERMINATION ALTITUDE); 1234 FT MSL BUILDING 445702.59N/0925945.02W (CLIMB-TO ALTITUDE).

RWY 13: 1238 FT MSL TOWER 445440.64N/0925910.72W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE); 1137 FT MSL TANK 445518.00N/0930012.00W (CLIMB-TO ALTITUDE).

RWY 14: 1241 FT MSL AAO 445327.00N/0925936.00W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE); 2375 FT MSL TOWER 450330.00N/0930728.00W (CLIMB-TO ALTITUDE).

RWY 27: 870 FT MSL TREE 445553.97N/0930459.45W (CLIMB GRADIENT); 965 FT MSL TREE 445544.61N/0930537.26W (CLIMB GRADIENT TERMINATION ALTITUDE); 2438 FT MSL TOWER

450344.83N/0930822.61W (CLIMB-TO ALTITUDE).

RWY 32: 973 FT MSL TOWER 445730.10N/0930432.14W (CLIMB GRADIENT); 2375 FT MSL TOWER 450330.00N/0930728.00W (CLIMB GRADIENT TERMANINATION ALTITUDE); 1271 FT MSL BUILDING 445647.16N/0930528.42W (CLIMB-TO ALTITUDE).

**MSA:**

ALL AIRPORTS: 3500

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

AIRPORT MV: FCM (P) 3E/1985, ANE 2E/2000, STP 0E/2020.

DME/DME ASSESSMENT: SAT (RNP 2.0).

ALL AIRPORTS - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

CHART: MINIMUM CROSSING ALTITUDE AT GGREY - 4000.



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DUHCK	ONE	DUHCK1.DUHCK	NONE		

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
FCM	MINNEAPOLIS	MN
ANE	MINNEAPOLIS	MN
STP	ST PAUL	MN

**COMMUNICATIONS:**

CHART: ATIS, CLNC DEL, GND CON, TOWER.

**FIXES AND/OR NAVAIDS:**

**REMARKS:**

100 FT VEGETATION USED PER FPT.

WAIVERS (1): ATC REQUESTED ALTITUDE LOWER THAN UNRESTRICTED CLIMB ALLOWED BY TERPS EVALUATION; WAIVER (2): REDUCED ROC.

STP: RWY 31, RESTRICTED DUE TO OBSTACLES CAUSING HIGHER THAN 500 FT/NM CLIMB GRADIENT. ATC DOESN'T HAVE A RESTRICTION. CHECK WITH AIRPORT FOR A FUTURE CHANGE TO ADD MINS TO THE ODP AND SIDS.

DP RESTRICTIONS FOR ATC FACILITIES INFORMATION:

ATC IS NOT ALLOWED TO LET AN AIRCRAFT CLIMBING TO THE LOWEST ALTITUDES ASSIGNED ENTER A HIGHER MVA UNLESS ATC HAS ASSIGNED AND THE PILOT REACHED THE ALTITUDE EQUAL TO OR HIGHER THAN THE MVA SECTOR THEY ARE ENTERING OR FAA ORDER 7110.65, PARAGRAPH 5-6-3.A.(1) OR (2) IS BEING APPLIED (ATC IS RESPONSIBLE FOR OBSTACLE SEPARATION UNTIL THE AIRCRAFT REACHES THE MVA ALTITUDE OR HIGHER).

ANE:

TURN RESTRICTIONS FOR LOWEST ATC ASSIGNED ALTITUDE RWY 9, 27, 36: 190 CW 090 CLIMB TO 3000. REFERENCE ANE LETTER OF AGREEMENT (LOA).

TURN RESTRICTIONS FOR LOWEST ATC ASSIGNED ALTITUDE RWY 18: RIGHT TURN 190 CW 090 CLIMB TO 3000. LEFT TURN 190 CW 060 CLIMB TO 3500. REFERENCE ANE LETTER OF AGREEMENT (LOA).

**FLIGHT INSPECTED BY**

**SIGNATURE**

**OFFICE**

**DATE**

**DEVELOPED BY**

**SIGNATURE**

**OFFICE**

**DATE**

RAKE MCGRAW (DEXTER SWEETING)

AJV-A431

08/26/2025

**APPROVED BY**

**SIGNATURE**

**OFFICE**

**DATE**

**TITLE**

RAKE MCGRAW

AJV-A422

MANAGER

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:**

**A4A**

**ALPA**

**AOPA**

**APA**

**HAI**

**NBAA**

**OTHER:**ZMP, FCM ATCT, ANE ATCT, STP ATCT, MSP DEP CON, AMGR

**CHANGES - REASONS:**

ORIGINAL PROCEDURE.

10/24/2025: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/26/2025.

1. REMARKS: DP RESTRICTIONS FOR ATC FACILITIES INFORMATION: ANE: UPDATED NOTE FROM "...RWY 9, 27, 36: 190 CW 060 CLIMB TO 3000..." TO "...RWY 9, 27, 36: 190 CW 090 CLIMB TO 3000..."

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DUHCK	ONE	DUHCK1.DUHCK	NONE		

2. REMARKS: DP RESTRICTIONS FOR ATC FACILITIES INFORMATION: ANE: UPDATED NOTE FROM "...RWY 18: RIGHT TURN 190 CW TO 060 CLIMB TO 3000. LEFT TURN CW 060 TO CW 190 CLIMB TO 3500..." TO "...RWY 18: RIGHT TURN 190 CW 090 CLIMB TO 3000. LEFT TURN 190 CW 060 CLIMB TO 3500..."



**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>				
DUHCK	ONE	DUHCK1.DUHCK	NONE						
<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>
GGREY	443735.41N/0933131.47W	Y	-	IF	-	-	AT/ABOVE 4000		
DUHCK	443014.85N/0934245.49W	Y	FB	TF	227.63	10.88			
DUHCK	443014.85N/0934245.49W	Y	-		-	-			DUHCK1.LLUKY
MGHTY	442120.97N/0935944.93W	Y	FB	IF	233.94	15.08			
GRRAT	435020.73N/0945740.19W	Y	FB	TF	233.73	51.99			
DDOWN	432515.22N/0954310.84W	Y	FB	TF	233.06	41.50			
LLUKY	422920.26N/0983811.44W	Y	FB	TF	247.49	140.14			
DUHCK	443014.85N/0934245.49W	Y	-	IF	-	-			DUHCK1.SBRNA
MGHTY	442120.97N/0935944.93W	Y	FB	TF	233.94	15.08			
IDEEA	434628.85N/0942854.73W	Y	FB	TF	211.26	40.72			
MDKNG	431651.58N/0945309.94W	Y	FB	TF	210.92	34.47			
SBRNA	421136.50N/0954459.97W	Y	FB	TF	210.65	75.59			
DUHCK	443014.85N/0934245.49W	Y	-	IF	-	-			DUHCK1.STIER
MGHTY	442120.97N/0935944.93W	Y	FB	TF	233.94	15.08			
GRRAT	435020.73N/0945740.19W	Y	FB	TF	233.73	51.99			
DDOWN	432515.22N/0954310.84W	Y	FB	TF	233.06	41.50			
STIER	424735.10N/0960427.16W	Y	FB	TF	202.60	40.76			

