

**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SUPERSEDED NUMBER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>
SNOWZ	ONE	SNOWZ.1.SNOWZ	NONE		

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
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DP ROUTE DESCRIPTION:

TAKEOFF RWY 4, 12L, 12R, 22, 30L 30R, 35: CLIMB ON ASSIGNED HEADING FOR VECTORS TO CROSS MANCY AT OR ABOVE 4000, THENCE...

TAKEOFF RWY 17: CLIMB ON HEADING 169.53 TO INTERCEPT COURSE 220.00 TO CROSS RUBRB AT OR ABOVE 3500, THEN ON TRACK 215.00, FOR VECTORS TO CROSS MANCY AT OR ABOVE 4000, THENCE ...

ALL AIRCRAFT: ATC CLIMB GRADIENTS: IF UNABLE TO ACCEPT CLIMB GRADIENTS ADVISE ATC PRIOR TO TAXI.

RWY 12L/R: 495 FT/NM TO 3500.

RWY 17: 470 FT/NM TO 3500.

RWY 30L: 455 FT/NM TO 4000.

RWT 30R: 430 FT/NM TO 4000.

RWY 35: 445 FT/NM TO 4000.

...ON DEPICTED ROUTE TO SNOWZ, THEN ON TRANSITION. MAINTAIN (JETS) 7000/(PROPS) 5000, 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>
DABOY	SNOWZ1.DABOY	SNOWZ	SLUSH	TRACK 187.06	6.41	5000	2400	
		SLUSH	PLOWW	TRACK 211.67	11.82	7000	2500	
		PLOWW	PEDLN	TRACK 213.21	15.18	7000	2500	
		PEDLN	HSTIN	TRACK 210.08	13.89	9000	2500	
		HSTIN	YUPER	TRACK 189.19	49.22	10000	2800	
		YUPER	DABOY	TRACK 190.37	79.46	11000	2800	
ISTIQ	SNOWZ1.ISTIQ	SNOWZ	SLALM	TRACK 263.06	5.32	5000	2400	
		SLALM	MOGLL	TRACK 244.42	13.02	7000	2400	
		MOGLL	SLAYR	TRACK 233.08	16.45	7000	2400	
		SLAYR	SMTHA	TRACK 237.87	62.63	9000	3100	
		SMTHA	TEYOU	TRACK 236.91	52.88	10000	3300	
		TEYOU	ISTIQ	TRACK 218.16	147.83	11000	3500	



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SNOWZ		ONE	SNOWZ.1.SNOWZ	NONE			
LLUKY	SNOWZ1.LLUKY	SNOWZ	SLALM	TRACK 263.06	5.32	5000	2400
		SLALM	MOGLL	TRACK 244.42	13.02	7000	2400
		MOGLL	SLAYR	TRACK 233.08	16.45	7000	2400
		SLAYR	SMTHA	TRACK 237.87	62.63	9000	3100
		SMTHA	TEYOU	TRACK 236.91	52.88	10000	3300
		TEYOU	LLUKY	TRACK 242.74	112.56	11000	3500
SMTHA	SNOWZ1.SMTHA	SNOWZ	SLALM	TRACK 263.06	5.32	5000	2400
		SLALM	MOGLL	TRACK 244.42	13.02	7000	2400
		MOGLL	SLAYR	TRACK 233.08	16.45	7000	2400
		SLAYR	SMTHA	TRACK 237.87	62.63	9000	3100
		SMTHA	TEYOU	TRACK 236.91	52.88	10000	3300
ZZEEE	SNOWZ1.ZZEEE	SNOWZ	SLUSH	TRACK 187.06	6.41	5000	2400
		SLUSH	PLOWW	TRACK 211.67	11.82	7000	2500
		PLOWW	PEDLN	TRACK 213.21	15.18	7000	2500
		PEDLN	HSTIN	TRACK 210.08	13.89	9000	2500
		HSTIN	MDIAN	TRACK 209.65	20.73	9000	2600
		MDIAN	BBERD	TRACK 209.49	32.89	10000	2900
		BBERD	ZZEEE	TRACK 209.24	76.64	11000	3000

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS.

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED.

PROCEDURAL DATA NOTES:

TAKEOFF MINIMUMS:

RWY 12L/R, 22: STANDARD.

RWY 4, 30L/R, 35: STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 2000.

RWY 17: STANDARD WITH MINIMUM CLIMB OF 245 FT/NM TO 1342.

TAKEOFF OBSTACLES NOTES:

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



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SNOWZ	ONE	SNOWZ.1.SNOWZ	NONE		

CONTROLLING OBSTACLES:

RWY 4: 2438 FT MSL TOWER 450344.83N/0930822.61W.
RWY 30L/R, 35: 1743 FT MSL BUILDING 445834.00N/0931621.00W.

MSA:

MSP: 3500

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

AIRPORT MV: MSP 0E/2015.
DME/DME ASSESSMENT: SAT (RNP 2.0).
CHART: TOP ALTITUDE: (JETS) 7000/(PROPS) 5000.
CHART: TOP ALTITUDE: ASSIGNED BY ATC.
CHART: MINIMUM CROSSING ALTITUDE AT MANCY - 4000.

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
MSP	MINNEAPOLIS	MN

COMMUNICATIONS:

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

FIXES AND/OR NAVAIDS:

REMARKS:

100 FT VEGETATION USED PER FPT.

ORDER 8260.3G, LEGACY ICA USED FOR DESIGN AND EVALUATION.

WAIVERS (1): ATC REQUESTED ALTITUDE LOWER THAN UNRESTRICTED CLIMB ALLOWED BY TERPS EVALUATION; WAIVER (2): REDUCED ROC; WAIVER (3): ATC CLIMB GRADIENTS.

RWY 17: 245 FT/NM LNAV ENGAGEMENT CLIMB GRADIENT REQUIRED FOR PROCEDURE DESIGN DUE TO VI MINIMUM SEGMENT LENGTH REQUIREMENT.
RWY 17: AIRCRAFT CALCULATED ALTITUDE AT FIX RUBRB BELOW MVA, ADDITIONAL SECTORED EVALUATION ACCOMPLISHED. ALL SURFACES CLEAR.

PILOTS ARE REQUIRED PER 14 CFR TO CHECK THEIR ALTIMETER ON THE GROUND AND ENSURE IT IS NOT MORE THAN 75 FEET OFF FROM THE AIRPORT ALTITUDE WHEN DEPARTING.
ATC IS REQUIRED TO VALIDATE THE ALTITUDE ON INITAL CONTACT.

PER 14 CFR, PART 91.185 THE PILOT IS EXPECTED TO CLIMB TO THE REQUESTED/ASSIGNED ALTITUDE AND PROCEED DIRECT TO THE ASSIGNED/FILED ROUTE OF FLIGHT.
LEVEL ROC ON APPROACH IS 500/250 IN THE TERMINAL ENVIRONMENT. THE AIRCRAFT WOULD ONLY BE ASSIGNED THE IN ITAL ALTITUDE BASED ON THE MVA FOR A SHORT PERIOD OF TIME TO ENSURE INITAL SEPARATION. THE AIRCRAFT WILL THEN BE ASSIGNED THE MAINTAIN ALTITUDE.

MSP MINIMUMS COMBINED TO REDUCE CHART CLUTTER: RWYS 12L/R, 17, 22: STANDARD. RWY 14, 30L/R, 35: STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 2000.

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).



**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>
SNOWZ		ONE		SNOWZ.1.SNOWZ		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>
RW17 (AER)	445315.91N/0931432.11W	N	-	-	-	-			CG 245 FT/NM TO 1342
-	444955.31N/0931340.00W	-	-	VI	169.53	3.40			
RUBRB	444705.07N/0931700.80W	Y	FB	CF	220.00	3.71	AT/ABOVE 3500		
RUBRB	444705.07N/0931700.80W	-	-	FM	215.00	-			
MANCY	444803.13N/0931929.69W	Y	-	IF	-	-	AT/ABOVE 4000		
SNOWZ	444117.62N/0932642.19W	Y	FB	TF	217.28	8.49			
SNOWZ	444117.62N/80932642.19W	Y	-	IF	-	-			SNOWZ1.DABOY
SLUSH	443456.19N/0932748.29W	Y	FB	TF	187.06	6.41			
PLOWW	442452.14N/0933627.99W	Y	FB	TF	211.67	11.82			
PEDLN	441209.58N/0934801.40W	Y	FB	TF	213.21	15.18			
HSTIN	440008.00N/0935740.00W	Y	FB	TF	210.08	13.89			
YUPER	431132.00N/0940825.00W	Y	FB	TF	189.19	49.22			
DABOY	415319.05N/0942734.27W	Y	FB	TF	190.37	79.46			
SNOWZ	444117.62N/0932642.19W	Y	-	IF	-	-			SNOWZ1.ISTIQ
SLALM	444038.79N/0933406.27W	Y	FB	TF	263.06	5.32			
MOGLL	443500.33N/0935032.26W	Y	FB	TF	244.42	13.02			
SLAYR	442506.00N/0940853.00W	Y	FB	TF	233.08	16.45			
SMTHA	435123.57N/0952211.71W	Y	FB	TF	237.87	62.63			
TEYOU	432214.98N/0962256.31W	Y	FB	TF	236.91	52.88			

QUALITY
20
CHECKED

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SNOWZ		ONE		SNOWZ.1.SNOWZ		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>
ISTIQ	412452.04N/0982418.89W	Y	FB	TF	218.16	147.83			
SNOWZ	444117.62N/0932642.19W	Y	-	IF	-	-			SNOWZ1.LLUKY
SLALM	444038.79N/0933406.27W	Y	FB	TF	263.06	5.32			
MOGLL	443500.33N/0935032.26W	Y	FB	TF	244.42	13.02			
SLAYR	442506.00N/0940853.00W	Y	FB	TF	233.08	16.45			
SMTHA	435123.57N/0952211.71W	Y	FB	TF	237.87	62.63			
TEYOU	432214.98N/0962256.31W	Y	FB	TF	236.91	52.88			
LLUKY	422920.26N/0983811.44W	Y	FB	TF	242.74	112.56			
SNOWZ	444117.62N/0932642.19W	Y	-	IF	-	-			SNOWZ1.SMTHA
SLALM	444038.79N/0933406.27W	Y	FB	TF	263.06	5.32			
MOGLL	443500.33N/0935032.26W	Y	FB	TF	244.42	13.02			
SLAYR	442506.00N/0940853.00W	Y	FB	TF	233.08	16.45			
SMTHA	435123.57N/0952211.71W	Y	FB	TF	237.87	62.63			
SNOWZ	444117.62N/0932642.19W	Y	-	IF	-	-			SNOWZ1.ZZEEE
SLUSH	443456.19N/0932748.29W	Y	FB	TF	187.06	6.41			
PLOWW	442452.14N/0933627.99W	Y	FB	TF	211.67	11.82			
PEDLN	441209.58N/0934801.40W	Y	FB	TF	213.21	15.18			
HSTIN	440008.00N/0935740.00W	Y	FB	TF	210.08	13.89			
MDIAN	434206.24N/0941148.21W	Y	FB	TF	209.65	20.73			
BBERD	431326.07N/0943356.88W	Y	FB	TF	209.49	32.89			
ZZEEE	420621.00N/0952414.00W	Y	FB	TF	209.24	76.64			

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