

**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SUPERSEDED NUMBER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>
SCHEP	ONE	SCHEP1.SCHEP	NINE	08/17/2017	8 SEP 2022
<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"/>

This is a corrected copy of a procedure originally published in NFDD 137. See page 4 for details

**DP ROUTE DESCRIPTION:**

**MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (KMSP):**

**TAKEOFF ALL RWYS:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**ALL AIRCRAFT: ATC CROSSING RESTRICTIONS AND CLIMB GRADIENTS:** IF UNABLE TO ACCEPT CROSSING RESTRICTIONS AND CLIMB RATES, ADVISE ATC PRIOR TO TAXI.

**RWY 12L/R:** FOR ASSIGNED HEADINGS FROM 060 CW TO 100, CROSS MSP 7 DME ARC AT OR ABOVE 3500, RWY 12L: 540 FT PER NM TO 3500, 12R: 542 FT PER NM TO 3500.

**RWY 17:** FOR ASSIGNED HEADINGS FROM 230 CW TO 285, CROSS MSP 7 DME ARC AT OR ABOVE 3500, 512 FT PER NM TO 3500.

**RWY 30L/R:** FOR ASSIGNED HEADINGS FROM 220 CW TO 360, CROSS MSP 7 DME ARC AT OR ABOVE 3500, 380 FT PER NM TO 3500.

**FLYING CLOUD (KFCM), ANOKA COUNTY-BLAINE (JANES FLD) (KANE):**

**TAKEOFF ALL RWYS:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**ST PAUL DOWNTOWN HOLMAN FLD (KSTP):**

**TAKEOFF RWY 9:** CLIMB ON HEADING 090.66 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE...

**TAKEOFF RWY 13:** CLIMB ON HEADING 127.74 TO 1300 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE...

**TAKEOFF RWY 14:** CLIMB ON HEADING 146.04 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE...

**TAKEOFF RWY 27:** CLIMB ON HEADING 270.67 TO 1700 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE...

**TAKEOFF RWY 32:** CLIMB ON HEADING 326.04 TO 1400 FOR RADAR VECTORS TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE...

... 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>
RXANN	SCHEP1.RXANN	SCHEP INT	RXANN INT	232.27 (MSP R-232)	25.00	9000	3100	

**PROCEDURAL DATA NOTES:**

**PBN REQUIREMENTS NOTES:**

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED.

**TAKEOFF MINIMUMS:**

**MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (KMSP):**

**RWYS 12R, 17, 22:** STANDARD.

**RWY 4:** STANDARD WITH MINIMUM CLIMB OF 202 FT PER NM TO 2400.

**RWY 12L:** STANDARD WITH MINIMUM CLIMB OF 277 FT PER NM TO 1100.

**RWY 30L:** STANDARD WITH MINIMUM CLIMB OF 208 FT PER NM TO 2000.

**RWY 30R:** STANDARD WITH MINIMUM CLIMB OF 217 FT PER NM TO 2000.

**RWY 35:** STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2100.

QUALITY  
49  
CHECKED

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**FLYING CLOUD (KFCM):**

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

**ANOKA COUNY-BLAINE (JANES FIELD) (KANE):**

**RWY 9:** STANDARD WITH MINIMUM CLIMB OF 341 FT PER NM TO 3000.

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

**RWY 27:** STANDARD WITH MINIMUM CLIMB OF 259 FT PER NM TO 2800.

**RWY 36:** STANDARD WITH MINIMUM CLIMB OF 259 FT PER NM TO 2800.

**ST PAUL DOWNTOWN HOLMAN FLD (KSTP):**

**RWY 31:** NA-OBSTACLES.

**RWY 14:** STANDARD.

**RWY 9:** STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 1300.

**RWY 13:** STANDARD WITH MINIMUM CLIMB OF 235 FT PER NM TO 1500.

**RWY 27:** STANDARD WITH MINIMUM CLIMB OF 442 FT PER NM TO 1500.

**RWY 32:** STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 3000.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:****MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (KMSP):**

**RWY 4:** 2438 FT MSL TOWER 450344.83N/0930822.61W.

**RWY 12L:** 991 FT MSL TREE 445233.26N/0931008.66W.

**RWYS 30L, 30R, 35:** 1743 FT MSL BUILDING 445834.00N/0931621.00W.

**ANOKA COUNTY-BLAINE (JANES FIELD) (KANE):**

**RWY 9, 18, 27, 36:** 2438 FT MSL TOWER 450345.00N/0930822.00W.

**ST PAUL DOWNTOWN HOLMAN FLD (KSTP):**

**RWY 9:** 1099 FT MSL TREE 445605.23N/0930103.53W.

**RWY 13:** 1238 FT MSL TOWER 445440.64N/0925910.72W.

**RWY 27:** 1279 FT MSL ROD ON STACK 445600.44N/0930631.02W.

**RWY 32:** 973 FT MSL POLE 445730.00N/0930432.00W.

**MSA:****LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

CHART RWF R-108/30.92 AT SCHEP.

CHART FCM VOR/DME ON MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN ONLY.

CHART: TOP ALTITUDE: ASSIGNED BY ATC.

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KMSP	MINNEAPOLIS	MN
KSTP	ST PAUL	MN



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SCHEP	ONE	SCHEP1.SCHEP	NINE	08/17/2017	8 SEP 2022
KFCM		MINNEAPOLIS			MN
KANE		MINNEAPOLIS			MN

**COMMUNICATIONS:**

CHART: ATIS, CLEARANCE DELIVERY.

**FIXES AND/OR NAVAIDS:**

HUGIR, MCONL, ARREX, FCM VOR/DME

**REMARKS:**

WAIVER ON FILE FOR PUBLICATION OF ATC CLIMB GRADIENTS.

APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FT/NM.

**FLIGHT INSPECTED BY**

JEFFREY HARING

*Digitally signed by***JASON KRETSCHMER****OFFICE**

FPO

**DATE**

11/02/2022

Jul 15, 2022

**DEVELOPED BY**

KELLIE BARNES

*Digitally signed by***JASON KRETSCHMER****OFFICE**

AJV-A423

**DATE**

09/23/2021

Jul 15, 2022

**APPROVED BY**

MARLON ROBINSON

*Digitally signed by***JASON KRETSCHMER****OFFICE**

AJV-A420

**DATE**

Jul 15, 2022

**TITLE**

MANAGER

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:****A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, MSP ATCT, AMGR**CHANGES - REASONS:**

1. REPLACED ALL OF MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN DP ROUTE DESCRIPTIONS WITH "TAKEOFF ALL RWYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO MSP R-232 TO SCHEP INT /MSP 66.00 DME. MAINTAIN ATC ASSIGNED ALTITUDE" - ATC REQUEST TO SIMPLIFY INSTRUCTIONS BY REMOVING DME AND NON DME ROUTING AND CROSSING RESTRICTION.
2. REMOVED O'NEILL AND WOLBACH TRANSITIONS - OTG VOR MON.
3. ADDED RXANN TRANSITION - ATC REQUESTED END POINT FOR SID.
4. CHANGED ST PAUL DOWNTOWN HOLMAN FLD DP ROUTE DESCRIPTIONS ALL RUNWAYS FROM "CLIMB HEADING..." TO "CLIMB ON HEADING..." - 8260.46G APPENDIX D.2.
5. CHANGED FLYING CLOUD AND ANOKA COUNTY-BLAINE (JANES FIELD) DP ROUTE DESCRIPTION FROM "FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-232 TO SCHEP INT/MSP 66.00 DME, THENCE..." TO "CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO MSP VOR/DME THEN ON MSP R-232 TO SCHEP INT/MSP 66.00 DME, MAINTAIN ATC ASSIGNED ALTITUDE, THENCE... - 8260.46G 2-1-1(G).
6. REMOVED "(TEN)" FROM TRANSITION INSTRUCTIONS IN DP ROUTE DESCRIPTION - ONLY USES NUMBER 10 PER EXAMPLES IN 8260.46G APPENDIX E.
7. ADDED AIRPORT ID TO ALL AIRPORTS IN AIRPORTS SERVED - 8260.46G APPENDIX D.
8. ADDED "NOTE: ATC CLIMB GRADIENT: RWY 12L: 540 FT PER NM TO 3500, RWY 12R: 542 FT PER NM TO 3500, RWY 17: 512 FT PER NM TO 3500. IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO TAXI" TO PROCEDURAL NOTES - ATC REQUEST; DOES AWAY WITH THE MSP CROSSING RESTRICTIONS AT 7 DME THAT WERE PREVIOUSLY PUBLISHED.
9. ADDED "WAIVER ON FILE FOR PUBLICATION OF ATC CLIMB GRADIENTS", AND "APPROVAL LETTER ON FILE FOR CLIMB GRADIENTS IN EXCESS OF 500 FT/NM" TO REMARKS - 8260.46G.
10. ADDED "REFERENCE MAG VAR: KMSP 0E EPOCH YR: 2015" TO ADDITIONAL FLIGHT DATA - 8260.46G APPENDIX D.

QUALITY  
49  
CHECKED

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10/13/21: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/23/21.

1. CHANGED "NOTE: ATC CLIMB GRADIENT: RWY 12L: 540 FT PER NM TO 3500, RWY 12R: 542 FT PER NM TO 3500, RWY 17: 512 FT PER NM TO 3500. IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO TAXI" TO "NOTE: ATC CLIMB GRADIENT: RWY 12L: 540 FT PER NM TO 3500, RWY 12R: 542 FT PER NM TO 3500, RWY 17: 512 FT PER NM TO 3500, RWY 30L: 380 FT PER NM TO 3500, RWY 30R: 380 FT PER NM TO 3500. IF UNABLE TO ACCEPT CLIMB RATE ADVISE ATC PRIOR TO TAXI".

03/01/22: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/23/21.

1. TRANSCRIBED TO FORM 8260-15B DATED 06/21.

2. CHANGED DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN FROM "CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO MSP R-232 TO SCHEP INT/MSP 66.00 DME, MAINTAIN ATC ASSIGNED ALTITUDE, THENCE..." TO "CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO INTERCEPT MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" -- UPDATED IAW PRB RESULTS AND NOTAM VERBIAGE.

3. ADDED TO DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN "ALL AIRCRAFT: ATC CROSSING RESTRICTIONS AND CLIMB GRADIENTS: IF UNABLE TO ACCEPT CROSSING RESTRICTIONS AND CLIMB RATES ADVISE ATC PRIOR TO TAXI" -- UPDATED IAW PRB RESULTS.

4. ADDED TO DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN "RWY 12L/R: FOR ASSIGNED HEADINGS FROM 060 CW TO 100, CROSS MSP 7 DME ARC AT OR ABOVE 3500, RWY 12L: 540 FT PER NM TO 3500, 12R: 542 FT PER NM TO 3500 -- UPDATED IAW PRB RESULTS.

5. ADDED TO DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN "RWY 17: FOR ASSIGNED HEADINGS FROM 230 CW TO 285, CROSS MSP 7 DME ARC AT OR ABOVE 3500, 512 FT PER NM TO 3500 -- UPDATED IAW PRB RESULTS.

6. ADDED TO DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN "RWY 30L/R: FOR ASSIGNED HEADINGS FROM 220 CW TO 360, CROSS MSP 7 DME ARC AT OR ABOVE 3500, 380 FT PER NM TO 3500 -- UPDATED IAW PRB RESULTS.

7. DELETED ATC CLIMB GRADIENTS PROCEDURAL DATA NOTE -- UPDATED IAW PRB RESULTS.

8. MOVED "RADAR REQUIRED" FROM PROCEDURAL DATA NOTES TO EQUIPEMENT REQUIREMENT NOTES -- UPDATED IAW 8260.46H, APPX D, SEC 2.6.

9. DELETED "REFERENCE MAG VAR: KMSP 0E EPOCH YR: 2015" IN ADDITIONAL FLIGHT DATA -- NO LONGER REQUIRED PER 8260.46H.

10. DELETED AIRPORT NAMES FROM AIRPORTS SERVED -- UPDATED IAW 8260.46H, APPX D, SEC 2.13.

11. ADDED "CHART:" AND DELETED "DEPARTURE CONTROL SOUTH OR EAST, DEPARTURE CONTROL NORTH OR WEST" IN COMMUNICATIONS -- UPDATED IAW 8260.46H, APPX D, SEC 2.14.

12. CHANGED FLYING CLOUD AIRPORT IDENTIFIER FROM "KFMC" TO "KFCM" -- CORRECTION.

05/06/22: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/23/21.

1. CHANGED DRD FOR MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN FROM "...TO INTERCEPT MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" TO "...TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" -- UPDATED IAW AFS COMMENTS.

2. COMBINED FLYING CLOUD AND ANOKA COUNTY-BLAINE AIRPORTS, REORDERED PRIOR TO ST PAUL DOWNTOWN HOLMAN FLD, AND CHANGED DRD FROM "...TO MSP VOR/DME THEN ON MSP R-232 TO SCHEP INT/MSP 66.00 DME, MAINTAIN ATC ASSIGNED ALTITUDE, THENCE..." TO "...TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" -- UPDATED IAW AFS COMMENTS.

3. CHANGED ANOKA COUNTY-BLAINE AIRPORT IDENTIFIER FROM "KANA" TO "KANE" -- CORRECT IDENTIFIER.

4. CHANGED ST PAUL DOWNTOWN HOLMAN FLD DRD ALL RUNWAYS FROM "...TO MSP VOR/DME, THEN ON MSP R-232 TO SCHEP INT/MSP 66.00 DME, THENCE..." TO "...TO ASSIGNED FIX ON MSP R-232, THEN ON DEPICTED ROUTE TO SCHEP, THENCE..." -- UPDATED IAW AFS COMMENTS.

5. CHANGED THENCE INSTRUCTIONS FROM "...ON TRANSITION OR ASSIGNED ROUTE, EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL 10 MINUTES AFTER DEPARTURE" TO "...ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" -- UPDATED IAW AFS COMMENTS.

6. CHANGED KMSP TAKEOFF MINIMUMS FROM "RWYS 4, 12R, 17, 22, 30L, 30R: STANDARD. RWY 12: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 207 FT PER NM TO 1100, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 FT PRIOR TO DER. RWY 35: STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2100" TO "RWYS 12R, 17, 22: STANDARD. RWY 4: STANDARD WITH MINIMUM CLIMB OF 202 FT PER NM TO 2400. RWY 12L: STANDARD WITH MINIMUM CLIMB OF 277 FT PER NM TO 1100. RWY 30L: STANDARD WITH MINIMUM CLIMB OF 208 FT PER NM TO 2000. RWY 30R: STANDARD WITH MINIMUM CLIMB OF 217 FT PER NM TO 2000. RWY 35: STANDARD WITH MINIMUM CLIMB OF 219 FT PER NM TO 2100." -- UPDATED ODP EVALUATIONS.

7. CHANGED KANE RWY 8 CLIMB GRADIENT FROM "371" TO "370" -- UPDATED TO MATCH ODP.

8. ADDED NOTE "CHART: KMSP, KSTP, KANE, KMIC, AND KFCM" -- UPDATED IAW AFS COMMENTS.

07/15/22: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/31/22.

1. DELETED "CHART ALTITUDE AT OR ABOVE 3100 AT ARREX" AND "CHART ALTITUDE AT OR ABOVE 7000 AT SCHEP" IN ADDITIONAL FLIGHT DATA -- ATC DIRECTED.

07/21/22: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/31/22.

1. DELETED "CHART: KMSP, KSTP, KANE, KMIC, AND KFCM" IN ADDITIONAL FLIGHT DATA -- CHARTING NOT REQUIRED.

