

**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.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
ROCHESTER	NINE	RST9.RST	EIGHT	07/21/2016	
TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN:

TAKEOFF ALL RWYS: FLY ASSIGNED HEADING FOR RADAR VECTORS TO FGT VORTAC AND THEN ON FGT R-147 AND RST R-329 TO RST VOR/DME. CROSS FOBUG INT/FGT 14 DME AT OR ABOVE 4000. TURBOJET AIRCRAFT MAINTAIN 7000 OR LOWER ASSIGNED ALTITUDE. ALL OTHER AIRCRAFT MAINTAIN 5000 OR LOWER ASSIGNED ALTITUDE.

DME EQUIPPED AIRCRAFT **RWY 12L/R** DEPARTURES: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100, CROSS MSP 7 DME AT OR ABOVE 3500, MAINTAIN ASSIGNED ALTITUDE. IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE, THENCE...

NON-DME EQUIPPED AIRCRAFT **RWY 12L/R** DEPARTURES: FOR ASSIGNED HEADINGS FROM 060 CLOCKWISE TO 100; CROSS FGT R-010 AT OR ABOVE 3500, MAINTAIN ASSIGNED ALTITUDE. IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE, THENCE...

TAKEOFF RWYS 4, 22, 35: INITIALLY ASSIGNED HEADING, THENCE...

TAKEOFF RWY 17: FOR ASSIGNED HEADINGS FROM 230 CLOCKWISE TO 285 CROSS MSP 7 DME AT OR ABOVE 3500, MAINTAIN ASSIGNED ALTITUDE. IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE, THENCE...

TAKEOFF RWY 30L/R: FOR ASSIGNED HEADINGS FROM 220 CLOCKWISE TO 360 CROSS MSP 7 DME AT OR ABOVE 3500, MAINTAIN ASSIGNED ALTITUDE. IF UNABLE TO COMPLY, ADVISE ATC AS SOON AS POSSIBLE PRIOR TO DEPARTURE, THENCE...

ST PAUL DOWNTOWN HOLMAN FLD:

TAKEOFF RWY 9: CLIMB HEADING 090.66 TO 1400 FOR RADAR VECTORS TO FGT VORTAC THEN ON FGT R-147 AND RST R-329 TO RST VOR/DME. CROSS FOBUG INT/FGT 14 DME AT OR ABOVE 4000, THENCE...

TAKEOFF RWY 13: CLIMB HEADING 127.74 TO 1300 FOR RADAR VECTORS TO FGT VORTAC THEN ON FGT R-147 AND RST R-329 TO RST VOR/DME. CROSS FOBUG INT/FGT 14 DME AT OR ABOVE 4000, THENCE...

TAKEOFF RWY 14: CLIMB HEADING 146.03 TO 1400 FOR RADAR VECTORS TO FGT VORTAC THEN ON FGT R-147 AND RST R-329 TO RST VOR/DME. CROSS FOBUG INT/FGT 14 DME AT OR ABOVE 4000, THENCE...

TAKEOFF RWY 27: CLIMB HEADING 270.67 TO 1700 FOR RADAR VECTORS TO FGT VORTAC THEN ON FGT R-147 AND RST R-329 TO RST VOR/DME. CROSS FOBUG INT/FGT 14 DME AT OR ABOVE 4000, THENCE...

TAKEOFF RWY 32: CLIMB HEADING 326.04 TO 1400 FOR RADAR VECTORS TO FGT VORTAC THEN ON FGT R-147 AND RST R-329 TO RST VOR/DME. CROSS FOBUG INT/FGT 14 DME AT OR ABOVE 4000, THENCE...

FLYING CLOUD:

TAKEOFF ALL RWYS: FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO FGT VORTAC THEN ON FGT R-147 AND RST R-329 TO RST VOR/DME. CROSS FOBUG INT/FGT 14 DME AT OR ABOVE 4000, THENCE...

ANOKA COUNTY-BLAINE (JANES FLD):

TAKEOFF ALL RWYS: FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO FGT VORTAC THEN ON FGT R-147 AND RST R-329 TO RST VOR/DME. CROSS FOBUG INT/FGT 14 DME AT OR ABOVE 4000, THENCE...

...ON ASSIGNED TRANSITION OR ASSIGNED ROUTE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL 10 (TEN) MINUTES AFTER DEPARTURE.



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ROCHESTER	NINE	RST9.RST	EIGHT	07/21/2016	

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>
WATERLOO	RST9.ALO	RST VOR/DME	ALO VOR/DME	168.19 & 167.33 (RST R-168 & ALO R-347)	74.08	9000	3500	

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED.

TAKEOFF MINIMUMS:

MINNEAPOLIS-ST PAUL INTL/WOLD CHAMBERLAIN:

RWY 4, 12R, 17, 22, 30L, 30R, STANDARD.

RWY 12L, 300-1 ½ 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.

ST PAUL DOWNTOWN HOLMAN FLD:

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, 600-2 OR STANDARD WITH MINIMUM CLIMB OF 442 FT PER NM TO 1500.

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

FLYING CLOUD:

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

ANOKA COUNTY-BLAINE (JANES FLD):

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

RWY 18, STANDARD WITH MINIMUM CLIMB OF 371 FT PER NM TO 3000.

RWY 27, STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 2800.

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



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TAKEOFF OBSTACLES NOTES:

MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN:

NOTE: RWY 4: TREES BEGINNING 800 FT FROM DER, 301 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/925 FT MSL. ROD ON BUILDING 2528 FT FROM DER, 1174 FT LEFT OF CENTERLINE, 78 FT AGL/922 FT MSL. FENCE BEGINNING 13 FT FROM DER, 486 FT LEFT OF CENTERLINE, UP TO 6 FT AGL/860 FT MSL. STACK 4535 FT FROM DER, 480 FT LEFT OF CENTERLINE, 139 FT AGL/949 FT MSL. **NOTE: RWY 12L:** TREE 1.1 NM FROM DER, 1691 FT LEFT OF CENTERLINE, 92 FT AGL/991 FT MSL. LT POLE AND CAMERA ON WALL BEGINNING 398 FT FROM DER, 561 FT RIGHT OF CENTERLINE, UP TO 23 FT AGL/832 FT MSL. **NOTE: RWY 12R:** TREE 1479 FT FROM DER, 561 FT LEFT OF CENTERLINE, 86 FT AGL/855 FT MSL. OL ON POLE 1002 FT FROM DER, 753 FT LEFT OF CENTERLINE, 53 FT AGL/852 FT MSL. **NOTE: RWY 17:** POLE 409 FT FROM DER, 530 FT RIGHT OF CENTERLINE, 29 FT AGL/866 FT MSL. BUILDING 2619 FT FROM DER, 881 FT LEFT OF CENTERLINE, 97 FT AGL/918 FT MSL. BUILDING 1956 FT FROM DER, 904 FT LEFT OF CENTERLINE, 61 FT AGL/866 FT MSL. TREE 2619 FT FROM DER, ON CENTERLINE, 79 FT AGL/900 FT MSL. **NOTE: RWY 22:** TREES BEGINNING 2659 FT FROM DER, 867 FT RIGHT OF CENTERLINE, UP TO 94 FT AGL/934 FT MSL. **NOTE: RWY 30L:** ANTENNA ON TOWER 3550 FT FROM DER, 1333 FT LEFT OF CENTERLINE, 111 FT AGL/937 FT MSL. **NOTE: RWY 30R:** BILLBOARD SIGN 1463 FT FROM DER, 848 FT RIGHT OF CENTERLINE, 31 FT AGL/880 FT MSL. **NOTE: RWY 35:** TREES BEGINNING 2553 FT FROM DER, 770 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/919 FT MSL. TREES BEGINNING 1989 FT FROM DER, 194 FT LEFT OF CENTERLINE, UP TO 87 FT AGL/906 FT MSL. BUILDINGS BEGINNING 5.4 NM FROM DER, 1781 FT LEFT OF CENTERLINE, UP TO 889 FT AGL/1743 FT MSL.

ST PAUL DOWNTOWN HOLMAN FLD:

NOTE: RWY 9: MOBILE CRANE 1362 FT FROM DER, 124 FT LEFT OF CENTERLINE, 68 FT AGL/758 FT MSL. TREES AND SILO 1464 FT FROM DER, 178 FT RIGHT OF CENTERLINE, UP TO 116 FT AGL/816 FT MSL. TREES AND POLE BEGINNING 1.1 NM FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 100 FT AGL/1099 FT MSL. **NOTE: RWY 13:** TREE AND TOWER BEGINNING 1125 FT FROM DER, 609 FT LEFT OF CENTERLINE, UP TO 67 FT AGL/767 FT MSL. TREE, POLE, VENT ON BUILDING, STACKS, AND OL ON STACK BEGINNING 1672 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 120 FT AGL/820 FT MSL. TREES BEGINNING 1.9 NM FROM DER, 2938 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1020 FT MSL. **NOTE: RWY 14:** TREES, OL ON DME ANTENNA, AND POLE BEGINNING 290 FT FROM DER, 1 FT RIGHT OF CENTERLINE, UP TO 129 FT AGL/819 FT MSL. TREES AND POLE BEGINNING 1099 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 87 FT AGL/777 FT MSL. **NOTE: RWY 27:** TREES, LIGHT POLE, AND FLAGPOLE BEGINNING 617 FT FROM DER, 198 FT LEFT OF CENTERLINE, UP TO 119 FT AGL/829 FT MSL. OL ON ANT, BLDGS, TOWER, AND TREE BEGINNING 810 FT FROM DER, 26 FT RIGHT OF CENTERLINE, UP TO 165 FT AGL/955 FT MSL. TREES AND BLDG BEGINNING 3886 FT FROM DER, 120 FT LEFT OF CENTERLINE, UP TO 84 FT AGL/1014 FT MSL. TOWER 1.7 NM FROM DER, 633 FT LEFT OF CENTERLINE, 569 FT AGL/1279 FT MSL. **NOTE: RWY 32:** VEHICLE ON ROAD, TREES, RAILROAD, POLES, AND NAVAID BEGINNING 179 FT FROM DER, 267 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/758 FT MSL. VEHICLE ON ROAD, RAILROAD, AND TREES BEGINNING 192 FT FROM DER, UP TO 59 FT AGL/759 FT MSL. NAVAID 257 FT FROM DER, ON CENTERLINE, 26 FT AGL/726 FT MSL. TREES, POLES, BUILDINGS, AND TOWER BEGINNING 3674 FT FROM DER, 616 FT RIGHT OF CENTERLINE, UP TO 157 FT AGL/973 FT MSL. TREES, BUILDINGS, TOWER, SIGN, AND STACK BEGINNING 1924 FT FROM DER, 378 FT LEFT OF CENTERLINE, UP TO 143 FT AGL/969 FT MSL.

FLYING CLOUD:

NOTE: RWY 10L: TREE, BUILDINGS, AND POLES BEGINNING 78 FT FROM DER, 346 FT LEFT OF CENTERLINE, UP TO 45 FT AGL/945 FT MSL. VEHICLE ON ROAD, SIGN, AND TREES BEGINNING 645 FT FROM DER, 442 FT RIGHT OF CENTERLINE, UP TO 37 FT AGL/937 FT MSL. **NOTE: RWY 10R:** BUILDINGS BEGINNING 260 FT FROM DER, 321 FT RIGHT OF CENTERLINE, UP TO 40 FT AGL/943 FT MSL. TREES, POLES, AND GENERAL UTILITY BEGINNING 331 FT FROM DER, 106 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/939 FT MSL. **NOTE: RWY 18:** BUILDINGS BEGINNING 212 FT FROM DER, 318 FT RIGHT OF CENTERLINE, UP TO 34 FT AGL/938 FT MSL. VEHICLE ON ROAD 262 FT FROM DER, 195 FT LEFT OF CENTERLINE, 15 FT AGL/918 FT MSL. TREES BEGINNING 401 FT FROM DER, 165 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/961 FT MSL. **NOTE: RWY 28R:** TREE, BUILDINGS, AND GENERAL UTILITY BEGINNING 105 FT FROM DER, 353 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/938 FT MSL. **NOTE: RWY 36:** BUILDING 3 FT FROM DER, 478 FT LEFT OF CENTERLINE, 18 FT AGL/920 FT MSL. TREES BEGINNING 426 FT FROM DER, 323 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/951 FT MSL. TREES, BUILDINGS, POLES AND WINDMILL BEGINNING 541 FT FROM DER, 302 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/960 FT MSL.

ANOKA COUNTY-BLAINE (JANES FLD):

NOTE: RWY 9: TREE 821 FT FROM DER, 618 FT RIGHT OF CENTERLINE, 961 FT MSL. TANK 1.1 NM FROM DER, 1278 FT RIGHT OF CENTERLINE, 170 FT AGL/1082 FT MSL. **NOTE: RWY 18:** VEHICLE ON ROAD BEGINNING 2 FT FROM DER, 49 FT RIGHT OF CENTERLINE, UP TO 925 FT MSL. TREES BEGINNING 405 FT FROM DER, 286 FT LEFT OF CENTERLINE, UP TO 946 FT MSL. TREES BEGINNING 487 FT FROM DER, 353 FT LEFT OF CENTERLINE, UP TO 954 FT MSL. TREE 757 FT FROM DER, 385 FT LEFT OF CENTERLINE, 955 FT MSL. TREES BEGINNING 769 FT FROM DER, 335 FT LEFT OF CENTERLINE, UP TO 959 FT MSL. TOWER 5016 FT FROM DER, 200 FT LEFT OF CENTERLINE, 120 FT AGL/1078 FT MSL. **NOTE: RWY 27:** TREE 7 FT FROM DER, 270 FT RIGHT OF CENTERLINE, 908 FT MSL. TREES BEGINNING 70 FT FROM DER, 247 FT RIGHT OF CENTERLINE, UP TO 912 FT MSL. TREE 185 FT FROM DER, 390 FT RIGHT OF CENTERLINE, 926 FT MSL. TREE 447 FT FROM DER, 509 FT RIGHT OF CENTERLINE, 930 FT MSL. TREE 684 FT FROM DER, 671 FT LEFT OF CENTERLINE, 946 FT MSL. TREE 1189 FT FROM DER, 811 FT LEFT OF CENTERLINE, 957 FT MSL. TREE 1296 FT FROM DER, 697 FT RIGHT OF CENTERLINE, 946 FT MSL. TREE 3028 FT FROM DER, 553 FT RIGHT OF CENTERLINE, 983 FT MSL. **NOTE: RWY 36:** TREES BEGINNING 85 FT FROM DER, 308 FT RIGHT OF CENTERLINE, UP TO 927 FT MSL. TREES BEGINNING 190 FT FROM DER, 267 FT RIGHT OF CENTERLINE, UP TO 971 FT MSL. TREES BEGINNING 1544 FT FROM DER, 249 FT RIGHT OF CENTERLINE, UP TO 987 FT MSL. TREE 1985 FT FROM DER, 358 FT LEFT OF CENTERLINE, 962 FT MSL.



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ROCHESTER	NINE	RST9.RST	EIGHT	07/21/2016	

CONTROLLING OBSTACLES:

MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN:

RWY 12L: 9911 FT MSL TREE 445233.26N/0931008.66W.

RWY 36: 1743 FT MSL BLDG 448534.00N/0931621.00W.

ST PAUL DOWNTOWN HOLMAN FLD:

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

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

RWY 14: 1239 FT MSL AAO 445345.20N/0925922.28W.

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

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

ANOKA COUNTY-BLAINE (JANES FIELD):

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

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART FOW R-045.66/19.44 AT FOBUG

CHART FOW R-078.39/19.59 AT DOKTR

CHART FOW R-099.53/23.85 AT CORDY

CHART TOP ALTITUDE: (JETS) 7000/(PROPS) 5000

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
MINNEAPLIS-ST PAUL INTL/WOLD CHAMBERLAIN	MINNEAPOLIS	MN
ST PAUL DOWNTOWN HOLMAN FLD	ST PAUL	MN
FLYING CLOUD	MINNEAPOLIS	MN
ANOKA COUNTY-BLAINE (JANES FIELD)	MINNEAPOLIS	MN

COMMUNICATIONS:

ATIS, CLEARANCE DELIVERY, DEPARTURE CONTROL SOUTH OR EAST, DEPARTURE CONTROL NORTH OR WEST, TOWER.

FIXES AND/OR NAVAIDS:

DOKTR, CORDY, FCM VOR/DME.

REMARKS:

ROCHESTER NINE AMENDMENT DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.

ABBREVIATED AMENDMENT.



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FLIGHT INSPECTED BY:

OFFICE SYMBOL:

DATE:

DEVELOPED BY:

JACOB POWERS (IVAN BLANCO)

OFFICE SYMBOL:

DATE:

AJV-5432

02/17/2017

APPROVED BY:

PAT MULQUEEN

OFFICE SYMBOL:

DATE:

AJV-5430

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A

ALPA

AOPA

APA

HAI

NBAA



OTHER:

ZMP, MSP ATCT, AMGR

CHANGES - REASONS:

ADDED NOTE, CHART TOP ALTITUDE: (JETS) 7000/(PROPS) 5000 - REQUIRED BY ATC.

MINEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN:

REMOVED ATC CLIMB GRADIENTS FROM ALL RUNWAYS - TO BRING INTO COMPLIANCE WITH CURRENT CRITERIA.

ST PAUL DOWNTOWN HOLMAN FLD:

UPDATED TAKEOFF MINIMUMS: CHANGED RWY 13 FROM: STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 1500 TO: STANDARD WITH MINIMUM CLIMB OF 235 FT PER NM TO 1500 - NEW OBSTACLE EVALUATION.

CHANGED DP ROUTE DESCRIPTION INITIAL CLIMB HEADINGS - FOR AIRPORT MAG VAR ROTATION.

1. TAKEOFF RWY 9, FROM: CLIMB HEADING 087.66... TO: CLIMB HEADING 090.66...
2. TAKEOFF RWY 13, FROM: CLIMB HEADING 124.74... TO: CLIMB HEADING 127.74...
3. TAKEOFF RWY 14, FROM: CLIMB HEADING 143.03 TO... TO: CLIMB HEADING 146.03...
4. TAKEOFF RWY 27, FROM: CLIMB HEADING 267.76... TO: CLIMB HEADING 270.76...
5. TAKEOFF RWY 32, FROM: CLIMB HEADING 323.04...TO: CLIMB HEADING 326.04...

ANOKA COUNTY-BLAINE (JANES FIELD):

UPDATED TAKEOFF OBSTACLE NOTES - NEW OBSTACLE EVALUATION.

AIRPORT NAME CHANGED TO: ANOKA COUNTY-BLAINE (JANES FIELD) - DELETED "ARPT" FROM NAME.

QUALITY
3
CHECKED