

**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SUPERSEDED NUMBER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>
KBREW	TWO	KBREW2.KBREW	ONE	02/01/2018	05/16/24

<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 the procedure published in NFDD 064.
** See page 6 for details. **

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

TAKEOFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO GEP VORTAC THEN ON DEPICTED ROUTE TO KBREW, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

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

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

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

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

ST PAUL DOWNTOWN HOLMAN FLD (KSTP):

TAKEOFF RWY 9: CLIMB ON HEADING 090.66 TO 1400 FOR RADAR VECTORS TO GEP VORTAC THEN ON DEPICTED ROUTE TO KBREW, THENCE...

TAKEOFF RWY 13: CLIMB ON HEADING 127.74 TO 1300 FOR RADAR VECTORS TO GEP VORTAC THEN ON DEPICTED ROUTE TO KBREW, THENCE...

TAKEOFF RWY 14: CLIMB ON HEADING 146.03 TO 1400 FOR RADAR VECTORS TO GEP VORTAC THEN ON DEPICTED ROUTE TO KBREW, THENCE...

TAKEOFF RWY 27: CLIMB ON HEADING 270.67 TO 1700 FOR RADAR VECTORS TO GEP VORTAC THEN ON DEPICTED ROUTE TO KBREW, THENCE...

TAKEOFF RWY 32: CLIMB ON HEADING 326.04 TO 1400 FOR RADAR VECTORS TO GEP VORTAC THEN ON DEPICTED ROUTE TO KBREW, THENCE...

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

TAKEOFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO GEP VORTAC THEN ON DEPICTED ROUTE TO KBREW, 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>
FARGO	KBREW2.FAR	KBREW INT	FAR VOR/DME	295.91 (FAR R-116)	120.06	14000	3300	KBREW AT/ABOVE 14000

PBN REQUIREMENT NOTES:**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED

PROCEDURAL DATA NOTES:**TAKEOFF MINIMUMS:****MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN (KMSP):**

RWY 12R, 17, 22: STANDARD

RWY 4: STANDARD WITH MINIMUM CLIMB OF 202 FT/NM TO 3000.

RWY 12L: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 276 FT/NM TO 1100.

RWY 30L: STANDARD WITH MINIMUM CLIMB OF 208 FT/NM TO 2100.

RWY 30R: STANDARD WITH MINIMUM CLIMB OF 217 FT/NM TO 2100.



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

ST PAUL DOWNTOWN HOLMAN FLD (KSTP):

RWY 31: NA-OBSTACLES.

RWY 14: STANDARD

RWY 9: 500-3 WITH MINIMUM CLIMB OF 255 FT/NM TO 1400 OR STANDARD WITH MINIMUM CLIMB OF 304 FT/NM TO 1200.

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

RWY 27: 400-2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 348 FT/NM TO 1100.

RWY 32: 500-2 3/4 WITH MINIMUM CLIMB OF 300 FT/NM TO 3000 OR STANDARD WITH MINIMUM CLIMB OF 339 FT/NM TO 2500.

FLYING CLOUD (KFCM):

RWYS: 10L, 10R, 18, 28L, 28R, 36: STANDARD

ANOKA COUNTY-BLAINE (JANES FLD) (KANE):

RWY 9: STANDARD WITH A MINIMUM CLIMB OF 341 FT/NM TO 3000.

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

RWY 27: STANDARD WITH A MINIMUM CLIMB OF 259 FT/NM TO 2800.

RWY 36: STANDARD WITH A MINIMUM CLIMB OF 259 FT/NM TO 2800.

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: 979 FT MSL TRANSMISSION LINE 445235.36N/0931010.19W.

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

ST PAUL DOWNTOWN HOLMAN FLD (KSTP):

RWY 9: 1147 FT MSL TREE 445529.93N0925954.18W (CEILING), 1129 FT MSL TREE 445528.34N/0925940.84W (VISIBILITY), 1196 FT MSL TANK 445517.97N/0925939.35W (255 CLIMB GRADIENT/1400 CLIMB-TO ALTITUDE), 977 FT MSL TREE 445624.13N/0930133.24W (304 CLIMB GRADIENT), 1058 FT MSL TREE 445602.98N/0930100.41W (1200 CLIMB-TO ALTITUDE).

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

RWY 27: 1014 FT MSL TREE 445537.26N/0930619.79W (CEILING), 999 FT MSL TREE 445638.52N/0930648.16W (VISIBILITY), 870 FT MSL TREE 445553.97N/0930459.45W (CLIMB GRADIENT), 965 FT MSL TREE 445544.61N/0930537.26W (CLIMB-TO ALTITUDE).

RWY 32: 1142 FT MSL TOWER 445757.10N/0930624.62W (CEILING/VISIBILITY), 2375 FT MSL TOWER 450330.00N/0930728.00W (300 CLIMB GRADIENT/CLIMB-TO ALTITUDE), 973 FT MSL TOWER 445730.10N/0930432.14W (339 CLIMB GRADIENT).

ANOKA COUNTY-BLAINE (JANES FLD) (KANE):

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

MSA:

KMSP: MSA FROM MSP VOR/DME 090-270 2800, 270-090 3500

KSTP: MSA FROM GEP VORTAC, 3500

KFCM: MSA FROM FCM VOR/DME 360-090 3500, 090-360 2800

KANE: MSA FROM GEP VORTAC, 3500

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

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

AIRPORT MV: MSP (P) 0E/2015, STP 0E/2020, FCM 3E/1985, ANE 2E/2000

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
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NFDD NO. 067		04/05/2024		27	
<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
KBREW	TWO	KBREW2.KBREW	ONE	02/01/2018	05/16/24
KMSP		MINNEAPOLIS			MN
KFCM		MINNEAPOLIS			MN
KSTP		ST PAUL			MN
KANE		MINNEAPOLIS			MN

COMMUNICATIONS:

CHART: ATIS, CLEARANCE DELIVERY, TOWER.

FIXES AND/OR NAVAIDS:

HRBEK, HOMUR, FCM VOR/DME, RWF VOR/DME

REMARKS:

WAIVER ON REQUEST FOR PUBLICATION OF ATC CLIMB GRADIENTS.
APPROVAL ON REQUEST FOR CLIMB GRADIENTS IN EXCESS OF 500 FT/NM.

FLIGHT INSPECTED BY

SIGNATURE

Digitally signed by
ERIC N SUSKI
Mar 19, 2024

OFFICE

DATE

PENDING

DEVELOPED BY

SIGNATURE

Digitally signed by
ERIC N SUSKI
Mar 19, 2024

OFFICE

DATE

ERIC N SUSKI (DEXTER SWEETING)

AJV-A431

11/11/2023

APPROVED BY

SIGNATURE

Digitally signed by
ERIC N SUSKI

OFFICE

DATE

TITLE

ERIC N SUSKI

AJV-A431

MANAGER

REQUIRED EFFECTIVE DATE

05/16/24

Mar 19, 2024

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, ATCT, AMGR

CHANGES - REASONS:

- DP ROUTE DESCRIPTION: KMSP CHANGED ROUTE FROM “TAKEOFF ALL RWYS: FLY ASSIGNED HEADING FOR RADAR VECTORS TO GEP VORTAC THEN ON GEP R-293 TO KBREW INT/GEP 55.00 DME. MAINTAIN ATC ASSIGNED ALTITUDE” TO “TAKEOFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO GEP VORTAC THEN ON DEPICTED ROUTE TO KBREW, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.” - INCORPORATE NOTAM 2/1416 AND IAW 8260.46J APPENDIX D.
- DP ROUTE DESCRIPTION: KMSP REMOVED “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...” - NO LONGER REQUIRED REPLACED WITH NEW INSTRUCTIONS.
- DP ROUTE DESCRIPTION: KMSP REMOVED “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...” - NO LONGER REQUIRED REPLACED WITH NEW INSTRUCTIONS.
- DP ROUTE DESCRIPTION: KMSP ADDED “ALL AIRCRAFT: CLIMB GRADIENTS: IF UNABLE TO ACCEPT CLIMB RATES, ADVISE ATC PRIOR TO TAXI. RWY 12L/R: FOR ASSIGNED HEADINGS FROM 060 CW TO 100, CROSS MSP VOR/DME 7 DME ARC AT OR ABOVE 3500, RWY 12L: 540 FT/NM TO 3500, RWY 12R: 542 FT/NM TO 3500. RWY 17: FOR ASSIGNED HEADINGS FROM 230 CW TO 285, CROSS

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KBREW	TWO	KBREW2.KBREW	ONE	02/01/2018	05/16/24

MSP VOR/DME 7 DME ARC AT OR ABOVE 3500, 512 FT/NM TO 3500. RWY 30L/R: FOR ASSIGNED HEADINGS FROM 220 CW TO 360, CROSS MSP VOR/DME 7 DME ARC AT OR ABOVE 3500, 380FT/NM TO 3500" - INCORPORATE NOTAM 2/14 PER ATC REQUEST.

5. DP ROUTE DESCRIPTION: KSTP TAKEOFF RWY 9, 13, 14, 27, 32 CHANGED FROM "...THEN ON GEP R-293 TO KBREW INT/GEP 55.00 DME, THENCE..." TO "...THEN ON DEPICTED ROUTE TO KBREW, THENCE..." - IAW 8260.46J APPENDIX D.

6. DP ROUTE DESCRIPTION: KFCM, KANE COMBINED AND CHANGED DP ROUTE FROM "FLY ASSIGNED HEADING AND ALTITUDE FOR RADAR VECTORS TO GEP VORTAC THEN ON GEP R-293 TO KBREW INT/GEP 55.00 DME, THENCE..." TO "CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO GEP VORTAC THEN ON DEPICTED ROUTE TO KBREW, THENCE..." - IAW 8260.46J APPENDIX D.

7. DP ROUTE DESCRIPTION: KFCM, KANE CHANGED THENCE STATEMENT FROM "...ON TRANSITION OR ASSIGNED ROUTE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL 10 (TEN) MINUTES AFTER DEPARTURE" TO "...ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" - IAW 8260.46J APPENDIX D.

8. TRANSITION ROUTES (GRAPHICAL DEPICTION ONLY): CHANGED TRANSITION COMPUTER CODE FROM "KBREW1.FAR" TO "KBREW2.FAR" - IAW 8260.46J.

9. EQUIPMENT REQUIREMENT NOTES: ADDED "RADAR REQUIRED" - IAW 8260.46J.

10. PROCEDURAL DATA NOTES: REMOVED "NOTE: RADAR REQUIRED" - NOTE MOVED TO EQUIPMENT REQUIREMENT NOTES SECTION OF THIS FORM IAW 8260.46J.

11. TAKEOFF MINIMUMS: KMSP CHANGED FROM "RWY 4, 12R, 30L, 30R, STANDARD" TO "RWY 12R, 17, 22: STANDARD" - NEW DIVERSE DEPARTURE EVALUATION IDENTIFIED NEW CONTROLLING OBSTACLE FOR RWY 4, 30L/R AND NEW NOTE FORMAT IAW 8260.46J.

12. TAKEOFF MINIMUMS: KMSP ADDED "RWY 4: STANDARD WITH MINIMUM CLIMB OF 202 FT/NM TO 3000" - NEW CONTROLLING OBSTACLE IDENTIFIED IAW 8260.46J TABLE 2-1-1.

13. TAKEOFF MINIMUMS: KMSP CHANGED RWY 12L FROM "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" TO "300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 276 FT/NM TO 1100" - NEW CONTROLLING OBSTACLE IDENTIFIED IAW 8260.46J TABLE 2-1-1 AND 8260.3E CHAPTER 13.

14. TAKEOFF MINIMUMS: KMSP ADDED "RWY 30L: STANDARD WITH MINIMUM CLIMB OF 208 FT/NM TO 2100" - NEW CONTROLLING OBSTACLE IDENTIFIED IAW 8260.46J TABLE 2-1-1.

15. TAKEOFF MINIMUMS: KMSP ADDED "RWY 30R: STANDARD WITH MINIMUM CLIMB OF 217 FT/NM TO 2100" - NEW CONTROLLING OBSTACLE IDENTIFIED IAW 8260.46J TABLE 2-1-1.

16. TAKEOFF MINIMUMS: KSTP CHANGE FROM "RWY 31, NA-OBSTACLES." TO "RWY 31: NA-OBSTACLES" - NEW NOTE FORMAT IAW 8260.46J APPENDIX D.

17. TAKEOFF MINIMUMS: KSTP CHANGE FROM "RWY 14, STANDARD" TO "RWY 14: STANDARD" - NEW NOTE FORMAT IAW 8260.46J APPENDIX D.

17. TAKEOFF MINIMUMS: KSTP CHANGED RWY 9 FROM "STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 1300" TO "RWY 9: 500-3 WITH MINIMUM CLIMB OF 255 FT/NM TO 1400 OR STANDARD WITH MINIMUM CLIMB OF 304 FT/NM TO 1200" - NEW CONTROLLING OBSTACLE IDENTIFIED IAW 8260.46J TABLE 2-1-1 AND 8260.3E CHAPTER 13.

18. TAKEOFF MINIMUMS: KSTP CHANGED FROM "RWY 13, STANDARD WITH MINIMUM CLIMB OF 235 FT PER NM TO 1500" TO RWY 13: STANDARD WITH MINIMUM CLIMB OF 235 FT PER NM TO 1500" - NEW NOTE FORMAT IAW 8260.46J APPENDIX D.

19. TAKEOFF MINIMUMS: KSTP CHANGED FROM "RWY 27, 600-2 OR STANDARD WITH MINIMUM CLIMB OF 442 FT PER NM TO 1500" TO "RWY 27: 400-2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 348 FT/NM TO 1100" - NEW CONTROLLING OBSTACLE IDENTIFIED IAW 8260.46J TABLE 2-1-1 AND 8260.3E CHAPTER 13.

20. TAKEOFF MINIMUMS: KSTP CHANGED FROM "RWY 32, STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 3000" TO "RWY 32: 500-2 3/4 WITH MINIMUM CLIMB OF 300 FT/NM TO 3000 OR STANDARD WITH MINIMUM CLIMB OF 339 FT/NM TO 2500" - NEW CONTROLLING OBSTACLE IDENTIFIED IAW 8260.46J TABLE 2-1-1 AND 8260.3E CHAPTER 13.

21. TAKEOFF MINIMUMS: KFCM CHANGED FROM "RWY 10L, 10R, 18, 28L, 28R, 36, STANDARD." TO "RWY 10L, 10R, 18, 28L, 28R, 36: STANDARD" - NEW NOTE FORMAT IAW 8260.46J APPENDIX D.

22. TAKEOFF MINIMUMS: KANE CHANGED "RWY 9, STANDARD WITH MINIMUM CLIMB OF 341 FT PER NM TO 3000" TO "RWY 9, STANDARD WITH MINIMUM CLIMB OF 341 FT PER NM TO 3000" - NEW NOTE FORMAT IAW 8260.46J APPENDIX D.

23. TAKEOFF MINIMUMS: KANE CHANGE "RWY 18, STANDARD WITH MINIMUM CLIMB OF 371 FT PER NM TO 3000" TO "RWY 18: STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 3000" - NEW CONTROLLING OBSTACLE IDENTIFIED IAW 8260.46J TABLE 2-1-1.

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KBREW	TWO	KBREW2.KBREW	ONE	02/01/2018	05/16/24

24. TAKEOFF MINIMUMS: KANE CHANGE "RWY 27, STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 2800" TO "RWY 27: STANDARD WITH MINIMUM CLIMB OF 259 FT PER NM TO 2800" - NEW CONTROLLING OBSTACLE IDENTIFIED IAW 8260.46J TABLE 2-1-1.

25. TAKEOFF MINIMUMS: KANE CHANGED "RWY 36, STANDARD WITH MINIMUM CLIMB OF 259 FT PER NM TO 2800" TO "RWY 9, STANDARD WITH MINIMUM CLIMB OF 259 FT PER NM TO 2800" - NEW NOTE FORMAT IAW 8260.46J APPENDIX D.

26. TAKEOFF OBSTACLE NOTES: REMOVED ALL NOTES AND ADDED "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)" - ALL AIRPORTS HAVE PUBLISHED ODP IAW 8260.46J APPENDIX D.

27. CONTROLLING OBSTACLES: KMSP ADDED RWY 4: 2438 FT MSL TOWER 450344.83N/0930822.61W - NEW CONTROLLING OBSTACLE IDENTIFIED.

28. CONTROLLING OBSTACLES: KMSP CHANGED RWY12L FROM "991 FT MSL TREE 445233.26N/0931008.66W" TO "979 FT MSL TRANSMISSION LINE 445235.36N/0931010.19W" - NEW CONTROLLING OBSTACLE IDENTIFIED.

29. CONTROLLING OBSTACLES: KMSP CHANGED FROM "RWY 35: 1743 FT MSL BLDG 445834.00N/0931621.00W" TO "RWY 30L, 30R, 35: 1743 FT MSL BUILDING 445834.00N/0931621.00W" - NEW CONTROLLING OBSTACLE IDENTIFIED FOR RWY 30L AND 30R AND UPDATE TO OBSTACLE NAME/DESCRIPTION.

30. CONTROLLING OBSTACLES: CHANGED KSTP RWY 9 FROM "1009 FT MSL TREE 445605.23N/0930103.53W" TO "1147 FT MSL TREE 445529.93N/0925954.18W (CEILING), 1129 FT MSL TREE 445528.34N/0925940.84W (VISIBILITY), 1196 FT MSL TANK 445517.97N/0925939.35W (255 CLIMB GRADIENT/1400 CLIMB-TO ALTITUDE), 977 FT MSL TREE 445624.13N/0930133.24W (304 CLIMB GRADIENT), 1058 FT MSL TREE 445602.98N/0930100.41W (1200 CLIMB-TO ALTITUDE)" - NEW OBSTACLES IDENTIFIED.

31. CONTROLLING OBSTACLES: KSTP RWY 14 REMOVED CONTROLLING OBSTACLE - NOT REQUIRED FOR STANDARD TAKEOFF MINIMUMS.

32. CONTROLLING OBSTACLES: CHANGED KSTP RWY 27 FROM "1279 FT MSL ROD ON STACK 445600.44N/0930631.02W" TO "1014 FT MSL TREE 445537.26N/0930619.79W (CEILING), 999 FT MSL TREE 445638.52N/0930648.16W (VISIBILITY), 870 FT MSL TREE 445553.97N/0930459.45W (CLIMB GRADIENT), 965 FT MSL TREE 445544.61N/0930537.26W (CLIMB-TO ALTITUDE)" - NEW OBSTACLES IDENTIFIED.

33. CONTROLLING OBSTACLES: CHANGED KSTP RWY 32 FROM "973 FT MSL POLE 445730.00N/0930432.00W" TO "1142 FT MSL TOWER 445757.10N/0930624.62W (CEILING/VISIBILITY), 2375 FT MSL TOWER 450330.00N/0930728.00W (300 CLIMB GRADIENT/CLIMB-TO ALTITUDE), 973 FT MSL TOWER 445730.10N/0930432.14W (339 CLIMB GRADIENT)" - NEW OBSTACLES IDENTIFIED.

34. CONTROLLING OBSTACLES: UPDATED CONTROLLING OBSTACLE COORDINATES FROM "450345.00N/0930822.00W" TO "450344.83N/0930822.61W" - UPDATED OBSTACLE SURVEY.

35. MSA: ADDED KMSP: MSA FROM MSP VOR/DME 090-270 2800, 270-090 3500 KSTP: MSA FROM GEP VORTAC, 3500, KFCM: MSA FROM FCM VOR/DME 360-090 3500, 090-360 2800 KANE: MSA FROM GEP VORTAC, 3500 - IAW 8260.46J APPENDIX D.

36. ADDITIONAL FLIGHT DATA: ADDED "ALL AIRPORTS-" TO TOP ALTITUDE NOTE - NEW REQUIREMENT IAW 8260.46J APPENDIX D.

37. ADDITIONAL FLIGHT DATA: AIRPORT MV: MSP (P) 0E/2015, STP 0E/2020, FCM 3E/1985, ANE 2E/2000 - IAW MEMO 283.

38. AIRPORTS SERVED: REMOVED AIRPORT NAMES; ADDED AIRPORT ID - NEW REQUIREMENT IAW 8260.46J APPENDIX D.

39. COMMUNICATIONS: CHANGED NOTE FROM "ATIS, CLEARANCE DELIVERY, DEPARTURE CONTROL SOUTH OR EAST, DEPARTURE CONTROL NORTH OR WEST, TOWER" TO "CHART: ATIS, CLEARANCE DELIVERY, TOWER - NEW NOTE FORMAT AND REMOVED DEPARTURE CONTROL NO LONGER REQUIRE DOCUMENTATION IAW 8260.46 APPENDIX D.

40. FIXES AND/OR NAVAIDS: ADDED RWF VOR/DME; ADDED RWF VOR/DME - REPLACED DWN VORTAC DUE TO DECOMMISSIONING AND IAW 8260.46J APPENDIX D.

41. REMARKS: REMOVED "KBREW ONE AMENDMENT DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS. ABBREVIATED AMENDMENT" ADDED "WAIVER ON REQUEST FOR PUBLICATION OF ATC CLIMB GRADIENTS" AND "APPROVAL ON REQUEST FOR CLIMB GRADIENTS IN EXCESS OF 500 FT/NM" - AMENDMENT NOT NO LONGER REQUIRED IAW 8260.46J.

42. TRANSITION ROUTES (GRAPHICAL DEPICTION ONLY): CHANGED FARGO TRANSITION MOCA FROM "3300" TO "3000" - NEW CONTROLLING OBSTACLE IDENTIFIED.



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
KBREW	TWO	KBREW2.KBREW	ONE	02/01/2018	16 May 2024

04/01/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/19/2024.

1. TRANSITION ROUTES (GRAPHICAL DEPICTION ONLY): CHANGED COURSE FROM "297.60" TO "295.51".
2. TRANSITION ROUTES (GRAPHICAL DEPICTION ONLY): CHANGED MOCA FROM "3000" TO "3300".

