

**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SUPERSEDED NUMBER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>
DES MOINES	TWO	DSM2.DSM	ONE	05/21/2020	26 DEC 2024
<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"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 5: CLIMB ON HEADING 052.82 TO 1400 BEFORE TURNING LEFT FOR RADAR VECTORS TO ASSIGNED ROUTE/FIX, THENCE...
TAKEOFF RWY 13: CLIMB ON HEADING 131.34 FOR RADAR VECTORS TO ASSIGNED ROUTE/FIX, THENCE...
TAKEOFF RWY 23: CLIMB ON HEADING 232.84 FOR RADAR VECTORS TO ASSIGNED ROUTE/FIX, THENCE...
TAKEOFF RWY 31: CLIMB ON HEADING 311.35 FOR RADAR VECTORS TO ASSIGNED ROUTE/FIX, THENCE...

...MAINTAIN 5000. EXPECT CLEARANCE TO 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>
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PBN REQUIREMENT NOTES:

FOR WAYPOINTS: RNAV 1 - GPS.

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED.

PROCEDURAL DATA NOTES:**TAKEOFF MINIMUMS:**

RWY 5, 13, 23, 31: STANDARD.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ROUTE DEVELOPMENT: RWY 5: 1456 FT MSL BUILDING 413515.00N/0933743.00W

MSA:

MSA FROM DSM VORTAC 060-330 3200, 3300-060 4000

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

CHART: TOP ALTITUDE: 5000
AIRPORT MV: DSM 1E/2020



AIRPORTS SERVED:

AIRPORT ID	CITY	STATE
KDSM	DES MOINES	IA

COMMUNICATIONS:

CHART: CLNC DEL

FIXES AND/OR NAVAIDS:

VORTAC: DSM, VOR/DME'S: IOW, LMN, OVR.
FIXES: FOURH, GPPL, HEEVN, ICUBS, IWILD, KORRN, MANAA.

REMARKS:

MSA CONTROLLING OBSTACLES: 090-270: 2181 FT MSL TOWER (19-063650) 410905.57N/0940242.34W, 270-090: 2996 FT MSL TOWER (19-001431) 414948.00N/0933654.60W.
100 FT VEGETATION HEIGHT USED PER FPT.

FLIGHT INSPECTED BY

JOEL F HAWKLEY

SIGNATURE
Digitally signed by
ERIC N SUSKI

Sep 26, 2024

OFFICE
FPO

DATE
09/25/2024

DEVELOPED BY

RICHARD E. CHRISTENSEN

SIGNATURE
Digitally signed by
RICHARD E. CHRISTENSEN

Aug 07, 2024

OFFICE
AJV-A431

DATE
05/14/2024

APPROVED BY

ERIC N. SUSKI

SIGNATURE

Digitally signed by

OFFICE
AJV-A431

DATE
TITLE
MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

ERIC N SUSKI
Aug 12, 2024

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, ZAU, DSM APP CON, DSM ATCT, IA AERO, AMGR

CHANGES - REASONS:

1. DP ROUTE DESCRIPTION: RWY 5 CHANGED FROM CLIMB TO 1500 BEFORE TURNING LEFT TO CLIMB TO 1400 BEFORE TURNING LEFT - NEW OBSTACLE EVALUATION RESULTS.
2. DP ROUTE DESCRIPTION: CHANGED FROM "...MAINTAIN 5000 OR ASSIGNED LOWER ALITITUDE. EXPECT CLEARANCE TO FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" TO "...MAINTAIN 5000. EXPECT CLEARANCE TO FILED ALTITUDE 10 MINUTES AFTER DEPARTURE" - IAW 8260.46J 3-1-1L(6).
3. PBN REQUIREMENT NOTES: ADDED "FOR WAYPOINTS: RNAV 1 - GPS." - IAW 8260.46J PARA 2-1-1F(6), AND APPENDIX D, SECTION 2, PARA 2E AND "FOR WAYPOINTS:" ADDED PER AFS EMAIL FOR FUTURE RELEASE OF CRITERIA.
4. PROCEDURAL DATA NOTES: RADAR REQUIRED MOVED TO EQUIPMENT REQUIREMENT NOTES - IAW 8260.46J PARA 2-1-1F(3), AND APPENDIX D, SECTION 2, PARA 2F.
5. CONTROLLING OBSTACLES: ADDED "OBSTACLES MANDATING ROUTE DEVELOPMENT: RWY 5: 1456 FT MSL BUILDING 413515.00N/0933743.00W" - IAW 8260.46J APPENDIX D, SECTION 2, PARA 2J (3).
6. MSA: ADDED MSA FROM DSM VORTAC 060-330 3200, 330-060 4000 - IAW 8260.46J APPENDIX D, SECTION 2, PARA 2K(1)(C), MATCHED WITH KDSM ILS OR LOC RWY 13 AND 31.
7. ADDITIONAL FLIGHT DATA: ADDED AIRPORT MV: DSM 1E/2020 - IAW MEMO 283: MAGNETIC VARIATION DOCUMENTATION FOR SIDS AND GRAPHIC ODP'S.
8. COMMUNICATIONS: REMOVED SECTORIZED DEPARTURE CONTROL - DEPARTURE CONTROL PUBLISHED AUTOMATICALLY IAW 8260.46J APPENDIX D, SECTION 2, PARA 2O.
9. FIXES AND/OR NAVAIDS: REMOVED VORTACS: FSD, GEP, DBQ, LNK, STJ, TOP, MCI, VOR/DME'S: ALO, CID, MCW, BRL AND ADDED FIXES: FOURH, GPPL, HEEVN, ICUBS, IWILD, KORRN, MANAA - PER ATC/FPT.
10. REMARKS: ADDED "MSA CONTROLLING OBSTACLES: 090-270: 2181 FT MSL TOWER (19-063650) 410905.57N/0940242.34W, 270-090: 2996 FT MSL TOWER (19-001431) 414948.00N/0933654.60W" AND "100 FT VEGETATION HEIGHT USED PER FPT" - FOR FUTURE SPECIALISTS REFERENCE.

