

**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SUPERSEDED NUMBER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>
GRZLY	FOUR	GRZLY4.MSO	THREE	05/24/2018	20 FEBRUARY 2025

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:

TAKEOFF RWY 12: CLIMBING RIGHT TURN HEADING 189.00 TO INTERCEPT MSO R-159, SOUTHEAST BOUND TO 7800, THENCE ... OR, OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITONS TO CROSS MSO VOR/DME SOUTHEAST BOUND AT OR ABOVE 5800, CONTINUE CLIMB TO 7800 ON MSO VOR/DME R-159 THENCE ...

TAKEOFF RWY 30: CLIMB ON MSO R-298 OUTBOUND TO 7800, THEN CLIMBING LEFT TURN ON MSO R-298 INBOUND TO MSO VOR/DME, CLIMB IN MSO VOR/DME HOLDING PATTERN (HOLD NW, RT, 151.00 INBOUND) TO MEA/MCA FOR ROUTE OF FLIGHT OR, OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITONS TO CROSS MSO VOR/DME SOUTHEAST BOUND AT OR ABOVE 5800, CONTINUE CLIMB TO 7800 ON MSO VOR/DME R-159 THENCE ...

... CLIMBING LEFT TURN ON MSO VOR/DME R-159 TO MSO VOR/DME, CLIMB IN MSO VOR/DME HOLDING PATTERN (HOLD NW, RT, 151.00 INBOUND) TO MEA/MCA FOR ROUTE OF FLIGHT

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:

EQUIPMENT REQUIREMENT NOTES:

PROCEDURAL DATA NOTES:

TAKEOFF MINIMUMS:

RWY 8, 26: NA - OBSTACLES

RWY 12: STANDARD WITH MINIMUM CLIMB OF 340 FEET PER NM TO 7800, OR 2700-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 30: STANDARD WITH MINIMUM CLIMB OF 275 FEET PER NM TO 7800, OR 2700-3 FOR CLIMB IN VISUAL CONDITIONS.

TAKEOFF OBSTACLES NOTES:

RWY 12, FENCE BEGINNING 22 FEET FROM DER, 487 FEET RIGHT OF CENTERLINE, UP TO 9 FEET AGL/3215 FEET MSL.

CONTROLLING OBSTACLES:

RWY 12, 5081 FT MSL AAO, 464541 .61 N/1140142.06W.

RWY 30, 4662 FT MSL AAO 465855.63N/1141556.30W

OBSTACLES MANDATING ODP ROUTE DEVELOPEMENT: RWY 12, 30 - 10020 FT MSL AAO, 472255.50N/1135527.40W.

VISUAL CLIMB AREA OBSTACLE: 5479 FT MSL AAO, 465239.23N/1141156.27W.

MSA:

MSA FROM MSO VOR/DME 049-139 9200, 139-229 10800, 229-319 9200, 319-049 10600

LOST COMMUNICATIONS PROCEDURES:



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
GRZLY	FOUR	GRZLY4.MSO	THREE	05/24/2018	20 FEBRUARY 2025

ADDITIONAL FLIGHT DATA:

CHART HOLDING PATTERN AT MSO VOR/DME, (HOLD NW, RT, 151.00 INBOUND).
AIRPORT MV: MSO 13E/2020

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
MSO	MISSOULA	MT

COMMUNICATIONS:

CHART: ATIS, GND CON, TWR, GEG APP CON, ZLC

FIXES AND/OR NAVAIDS:

REMARKS:

ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY

SIGNATURE

OFFICE

DATE

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

Digitally signed by

DEVELOPED BY

SIGNATURE

CASIMIR L TABAKA

OFFICE

DATE

JOSEPH L. ZEDER (CHRISTOPHER D. WILKINSON)

Oct 21, 2024

Digitally signed by

CASIMIR L TABAKA

AJV-A432

08/07/2024

APPROVED BY

SIGNATURE

Digitally signed by Oct 21, 2024

OFFICE

DATE

TITLE

JOSEPH L. ZEDER

CASIMIR L TABAKA

AJV-A430

10/21/2024

MANAGER

Oct 21, 2024

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:AMGR, MSO ATCT, GEG APP CON, ZLC**

CHANGES - REASONS:

1. DP ROUTE DESCRIPTION: CHANGED RWY 12 FROM "OR, CLIMB IN VISUAL CONDITIONS TO CROSS MSO VOR/DME SOUTHEAST BOUND AT OR ABOVE 5800, CONTINUE CLIMB TO 7800 ON MSO VOR/DME R-159 THENCE ..." TO "OR, OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS MSO VOR/DME SOUTHEAST BOUND AT OR ABOVE 5800, CONTINUE CLIMB TO 7800 ON MSO VOR/DME R-159 THENCE ..." - ADDED VCOA APPROVAL IAW 8260.46J APP D.2.G., CLEARS NOTAM FDC 2/9977.
2. DP ROUTE DESCRIPTION: CHANGED RWY 30 FROM "OR, CLIMB IN VISUAL CONDITIONS TO CROSS MSO VOR/DME SOUTHEAST BOUND AT OR ABOVE 5800, CONTINUE CLIMB TO 7800 ON MSO VOR/DME R-159 THENCE ..." TO "OR, OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS MSO VOR/DME SOUTHEAST BOUND AT OR ABOVE 5800, CONTINUE CLIMB TO 7800 ON MSO VOR/DME R-159 THENCE ..." - ADDED VCOA APPROVAL IAW 8260.46J APP D.2.G., CLEARS NOTAM FDC 2/9977.
3. TAKEOFF OBSTACLE NOTES: REMOVED "SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)." AND ADDED "RWY 12, FENCE BEGINNING 22 FEET FROM DER, 487 FEET RIGHT OF CENTERLINE, UP TO 9 FEET AGL/3215 FEET MSL." - DETAILED OBSTACLES REQUIRED IAW 8260.46J, SECTION 2.2.I.
4. CONTROLLING OBSTACLES: UPDATED FROM "(VCOA) 5479 FT MSL AAO, 465239.23N/1141156.27W" TO "VISUAL CLIMB AREA OBSTACLE: 5479 FT MSL AAO, 465239.23N/1141156.27W." - IAW 8260.46J, SECTION 2.2.J.(3).
5. MSA: ADDED "MSA FROM MSO VOR/DME 049-139 9200, 139-229 10800, 229-319 9200, 319-049 10600" - IAW 8260.46J, SECTION 2.2.K.
6. ADDITIONAL FLIGHT DATA: UPDATED FROM "REFERENCE MAG VAR: KMSO 13E EPOCH YR: 2020" TO "AIRPORT MV: MSO 13E/2020" - IAW FAA MEMO 283.
7. COMMUNICATIONS: UPDATED FROM "ATIS, GND CON, TWR, GEG APP CON, ZLC" TO "CHART: ATIS, GND CON, TWR, GEG APP CON, ZLC" - IAW 8260.46J, SECTION 2.2.O.
8. REMARKS: DELETED "GROUND TRACKS REMAIN AS PUBLISHED. MAPS FROM PREVIOUS AMENDMENT CARRIED FORWARD." AND ADDED "ABBREVIATED AMENDMENT." - NO LONGER NEEDED AND IAW 8260.46J, SECTION 2.2.Q.(3).

QUALITY
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CHECKED