

**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SUPERSEDED NUMBER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>
MOCAA	FOUR	MOCAA4.MOCAA	THREE	10/15/2015	<b>27 JAN 2022</b>

<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 checked="" type="checkbox"/>

**DP ROUTE DESCRIPTION:**

TAKEOFF RWY 16: CLIMB ON HEADING 164.75 TO 3000, THEN CLIMBING LEFT TURN DIRECT TO CROSS ALDER AT OR ABOVE 5800 AND AT OR BELOW 9000, THEN ON TRACK 110.50 TO MOCAA, THENCE...

TAKEOFF RWY 34: CLIMB ON HEADING 344.75 TO 3000, THEN CLIMBING LEFT TURN DIRECT NEECE, THEN ON TRACK 187.82 TO CROSS NISQA AT 4000, THEN ON TRACK 129.46 TO CROSS KUSCE AT OR ABOVE 4000 AND AT OR BELOW 250 KIAS, THEN ON TRACK 086.07 TO CROSS ALDER AT OR ABOVE 5800 AND AT OR BELOW 9000, THEN ON TRACK 110.50 TO MOCAA, THENCE...

...(TRANSITION). MAINTAIN 9000, EXPECT FILED ALTITUDE FIVE 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>
BAKER CITY	MOCAA4.BKE	MOCAA	SUMMA	TRACK 108.90	10.17	9000	7300	
		SUMMA	WANTA	TRACK 104.75	17.42	9000	8100	
		WANTA	BKE VOR/DME	TRACK 105.01	188.09	11000	11000	
KIMBERLY	MOCAA4.IMB	MOCAA	SUMMA	TRACK 108.90	10.17	9000	7300	
		SUMMA	PAAGE	TRACK 124.25	15.44	9000	7900	PAAGE AT/ABOVE 13100
		PAAGE	IMB VOR/DME	TRACK 125.42	136.73	14600	14600	
JINMO	MOCAA4.JINMO	MOCAA	JINMO	TRACK 157.24	20.66	9000	8000	

**PROCEDURAL DATA NOTES:**

NOTE: RNAV 1.  
NOTE: GPS REQUIRED.

**TAKEOFF MINIMUMS:**

RWY 16: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3000.  
RWY 34: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 3000.

**TAKEOFF OBSTACLES NOTES:**

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

**CONTROLLING OBSTACLES:**



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
MOCAA	FOUR	MOCAA4.MOCAA	THREE	10/15/2015	<b>27 JAN 2022</b>

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: BAKER CITY AND JINMO TRANSITIONS: 9000; KIMBERLY TRANSITION: 13100.  
 CHART SPEED ICON MAXIMUM SPEED 250 KIAS AT KUSCE.  
 REFERENCE MAG VAR: KTCM 15E EPOCH YR: 2020.  
 DME/DME ASSESSMENT: UNSAT.

**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
MCCHORD FIELD (JOINT BASE LEWIS-MCCORD)	KTCM	TACOMA	WA

**COMMUNICATIONS:**

ATIS, GND CON, TCM ATCT, SEA APP CON

**FIXES AND/OR NAVAIDS:**

CHART: OLM VORTAC

**REMARKS:**

ABBREVIATED AMENDMENT  
 DO NOT CHART MOCA: FROM WANTA TO BKE VOR/DME, PAAGE TO IMB VOR/DME.

**FLIGHT INSPECTED BY**

*Digitally signed by*  
**JOHN BORDY**  
 Nov 30, 2021

**OFFICE**  
 FIOG  
**DATE**  
 11/02/2021

**DEVELOPED BY**

RALPH DUMAR

*Digitally signed by*  
**RALPH DUMAR**  
 Sep 13, 2021

**OFFICE**  
 AJV-A422  
**DATE**  
 08/10/2021

**APPROVED BY**

MARLON ROBINSON

*Digitally signed by*  
**JOHN BORDY**  
 Nov 30, 2021

**OFFICE**  
 AJV-A420  
**DATE**  
**TITLE**  
 MANAGER

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZSE, SEA APP CON, TCM ATCT

**CHANGES - REASONS:**

- REMOVED TCM VORTAC - VOR PORTION DECOMMISSIONED.
- CHANGED DEPARTURE ROUTE DESCRIPTION WORDING - PER 8260.46G PARA. 2-1-1G(5).
- ADDED 'CHART SPEED ICON MAXIMUM SPEED 250 KIAS AT KUSCE' TO ADDITIONAL FLIGHT DATA - PER PER 8260.46G PARA. 2-1-1E(3)(B).
- REPLACED TAKEOFF OBSTACLE NOTES WITH STATEMENT 'SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)' - PER 8260.46G APP. E SEC. 1 PARA. 7.
- INCREASED MINIMUM CROSSING ALTITUDE AT PAAGE FROM 11300 TO 13100 - TARGETS CALCULATED ALTITUDE PER 8260.3E PARA. 14-3-1A.
- CHANGED 'CHART: TOP ALTITUDE: 9000' TO 'CHART: TOP ALTITUDE: BAKER CITY AND JINMO TRANSITIONS: 9000; KIMBERLY TRANSITION: 13100' - PER 8260.46G PARA. 2-1-1E(1)(F).
- ADDED MOCAS FOR ALL TRANSITION ROUTE SEGMENTS - PER 8260.46G APPENDIX E SECTION 1 PARA. 4H AND AFS CLARIFICATION MEMO DATED 07/01/21.
- ADDED REMARK 'DO NOT CHART MOCA: FROM WANTA TO BKE VOR/DME, PAAGE TO IMB VOR/DME' - PER PER 8260.46G APPENDIX E SECTION 1 PARA. 4H AND AFS CLARIFICATION MEMO DATED 07/01/21.



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
DEPARTURE (DATA RECORD)**

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>				
MOCAA	FOUR	MOCAA4.MOCAA	THREE	10/15/2015	<b>27 JAN 2022</b>				
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
RW16 (AER)	470905.52N/1222835.63W	N	-	-	-	-			
3000 MSL	-	Y	-	VA	179.75	-	AT/ABOVE 3000		CG 500 FT/NM TO 3000
ALDER	464917.62N/1222451.19W	Y	FB	DF	-	-	5800B9000		
MOCAA	464245.06N/1221132.63W	Y	FB	TF	125.50	11.25			
RW34 (AER)	470725.76N/1222834.99W	N	-	-	-	-			
3000 MSL	-	Y	-	VA	359.75	-	AT/ABOVE 3000		CG 500 FT/NM TO 3000
NEECE	471431.02N/1223811.71W	Y	FB	DF	-	-			
NISQA	465717.26N/1224846.84W	Y	FB	TF	202.82	18.69	AT 4000		
KUSCE	465145.50N/1224301.50W	Y	FB	TF	144.46	6.80	AT/ABOVE 4000	AT/BELOW 250K	
ALDER	464917.62N/1222451.19W	Y	FB	TF	101.07	12.72	5800B9000		
MOCAA	464245.06N/1221132.63W	Y	FB	TF	125.50	11.25			
MOCAA	464245.06N/1221132.63W	Y	-	IF	-	-			MOCAA4.BKE
SUMMA	463704.29N/1215917.96W	Y	FB	TF	123.90	10.17			
WANTA	462823.84N/1213725.07W	Y	FB	TF	119.75	17.42			
BKE VOR/DME	445026.16N/1174828.33W	Y	FB	TF	120.01	188.09			
MOCAA	464245.06N/1221132.63W	Y	-	IF	-	-			MOCAA4.IMB
SUMMA	463704.29N/1215917.96W	Y	FB	TF	123.90	10.17			
PAAGE	462522.00N/1214444.00W	Y	FB	TF	139.25	15.44	AT/ABOVE 13100		
IMB VOR/DME	443854.21N/1194241.87W	Y	FB	TF	140.42	136.73			

QUALITY  
8  
CHECKED

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MOCAA	FOUR	MOCAA4.MOCAA	THREE	10/15/2015	<b>27 JAN 2022</b>

<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
MOCAA	464245.06N/1221132.63W	Y	-	IF	-	-			MOCAA4.JINMO
JINMO	462217.00N/1220731.00W	Y	FB	TF	172.24	20.66			

