

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)  
TITLE 14 CFR PART 97.37**

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.

<b>CITY, STATE</b>	<b>AIRPORT</b>	<b>EFFECTIVE DATE</b>	<b>AMDT NO</b>
PONCE, PR	MERCEDITA	15 AUGUST 2019	6

**TAKEOFF MINIMUMS:**

**RWY 12**, STANDARD WITH MINIMUM CLIMB OF 300 FT PER NM TO 5300 OR 5100-3 FOR VCOA.

**RWY 30**, 500-1 1/8 WITH A MINIMUM CLIMB OF 350 FT PER NM TO 1300 OR STANDARD WITH MINIMUM CLIMB OF 808 FT PER NM TO 500 OR 5100-3 FOR VCOA.

**TEXTUAL DEPARTURE PROCEDURES:**

**RWY 12**: CLIMB HEADING 118.92 TO 2500 THEN PROCEED ON A HEADING BETWEEN 304 CW TO 248 FROM DEPARTURE END OF RUNWAY TO AVOID R-7105 AND UNMARKED TETHERED BALLOON UP TO 15000 MSL.

**RWY 30**: CLIMBING LEFT TURN ON A HEADING BETWEEN 120 CW TO 200 FROM DEPARTURE END OF RUNWAY. DO NOT PROCEED NORTHBOUND (HEADINGS 316 CW 119) UNTIL LEAVING 5000: DO NOT PROCEED WESTBOUND (HEADINGS 200 CW 315) UNTIL LEAVING 12000 TO AVOID R-7105 AND UNMARKED TETHERED BALLOON UP TO 15000 MSL.

**VISUAL CLIMB OVER AIRPORT:**

**ALL RUNWAYS**: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS MERCEDITA AIRPORT AT OR ABOVE 5100 THEN CLIMB HEADING 090.00 TO SJU VORTAC R-239 TO CLAYO INT/SJU 34.86 DME.

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 12**, TREES BEGINNING 126 FT FROM DER, 480 FT LEFT OF CENTERLINE, 5 FT AGL/31 FT MSL.

POLES BEGINNING 126 FT FROM DER, 435 FT RIGHT OF CENTERLINE, UP TO 68 FT AGL/87 FT MSL.

TREES BEGINNING 306 FT FROM DER, 500 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/64 FT MSL.

POLES AND TREES BEGINNING 323 FT FROM DER, 219 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/88 FT MSL.

TREES BEGINNING 1003 FT FROM DER, 368 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/71 FT MSL.

STACK 5536 FT FROM DER, 1749 FT RIGHT OF CENTERLINE, 184 FT AGL/210 FT MSL.

**NOTE: RWY 30**, POLE 143 FT FROM DER, 238 FT LEFT OF CENTERLINE, 43 FT AGL/76 FT MSL.

POLE 144 FT FROM DER, 281 FT RIGHT OF CENTERLINE, 44 FT AGL/87 FT MSL.

TREE 3014 FT FROM DER, 1264 FT LEFT OF CENTERLINE, 133 FT MSL.

POLES AND TREES BEGINNING 3217 FT FROM DER, 705 FT RIGHT OF CENTERLINE, UP TO 46 FT AGL/353 FT MSL.

TREES, POLES, AND TRANSMISSION LINE BEGINNING 3282 FT FROM DER, 135 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/355 FT MSL.

TREE 3492 FT FROM DER, 327 FT LEFT OF CENTERLINE, 164 FT MSL.

TREE 4406 FT FROM DER, 194 FT LEFT OF CENTERLINE, 55 FT AGL/172 FT MSL.

TREE 4765 FT FROM DER, 109 FT LEFT OF CENTERLINE, 34 FT AGL/176 FT MSL.

POLE 5243 FT FROM DER, 513 FT LEFT OF CENTERLINE, 106 FT AGL/197 FT MSL.

POLES BEGINNING 5256 FT FROM DER, 188 FT LEFT OF CENTERLINE, UP TO 73 FT AGL/216 FT MSL.

BUILDINGS BEGINNING 1.2 NM FROM DER, 1986 FT LEFT OF CENTERLINE, UP TO 194 FT AGL/259 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 12**: 4584 FT MSL TOWER 181003.10N/0663435.80W.

**RWY 30**: 960 FT MSL TOWER 180139.00N/0663808.00W (350 CG/1300 CGTA); 431 FT MSL TRANSMISSION LINE 180117.26N/0663519.79W (CEILING); 330 FT MSL POLE 180108.60N/0663525.65W (VISIBILITY); 353 FT MSL POLE 180104.05N/0663459.93W (808 CG); 355 FT MSL TREE 180104.21N/0663500.59W (500 CGTA).

**VCOA**: 2267 FT MSL AAO 180502.35N/0663547.91W (VCA).

**OBSTACLES MANDATING ODP ROUTE DEVELOPMENT/SECTOR DEPARTURE:**

**RWY 12**: 15,000 FT MSL BALLOON 175842.00N/0670448.00W.

**RWY 30**: 15,000 FT MSL BALLOON 175842.00N/0670448.00W (12,000 MSL CLIMB-TO-ALTITUDE); 4584 FT MSL TOWER 181003.10N/0663435.80W (5000 MSL CLIMB-TO-ALTITUDE).

**VCOA**: 15,000 FT MSL BALLOON 175842.00N/0670448.00W.

**REMARKS:**

LETTER OF APPROVAL ON REQUEST FOR CLIMB GRADIENT IN EXCESS OF 500 FEET PER NM.

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VCOA CLIMB TO ALTITUDE DERIVED FROM SJU VOR RESTRICTIONS.

<b>FLIGHT INSPECTED BY:</b>	<i>Digitally signed by</i>	<b>OFFICE SYMBOL:</b>	<b>DATE:</b>
CHRISOPHER D FORMAN	<b>DONALD H LANIER</b>	FICO	3/5/19
	Mar 06, 2019		
<b>DEVELOPED BY:</b>	<i>Digitally signed by</i>	<b>OFFICE SYMBOL:</b>	<b>DATE:</b>
DONALD LANIER (JACOB MAXFIELD)	<b>DONALD H LANIER</b>	AJV-5431	09/14/2018
	Mar 06, 2019		
<b>APPROVED BY:</b>	<i>Digitally signed by</i>	<b>OFFICE SYMBOL:</b>	<b>DATE:</b>
PATRICK MULQUEEN	<b>DONALD H LANIER</b>	AJV-5430	
	Mar 06, 2019		

**REQUIRED EFFECTIVE DATE:**  
ROUTINE

**COORDINATED WITH:**

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**OTHER:**  
ZSU, SJU FSS, AIRPORT MANAGER

**CHANGES - REASONS:**

1. CHANGED RWY 12 CLIMB GRADIENT TERMINATION ALTITUDE FROM 5400 TO 5300 - TARGETS CALCULATED REQUIRED CGTA IS 5244 (5300).
2. CHANGED RWY 30 TAKEOFF MINIMUMS FROM "STANDARD WITH MINIMUM CLIMB OF 810 FT/NM TO 500 OR 5100-3 FOR VCOA" TO "500-1 1/8 WITH A MINIMUM CLIMB OF 350 FT PER NM TO 1300 OR STANDARD WITH MINIMUM CLIMB OF 808 FT PER NM TO 500 OR 5100-3 FOR VCOA" - RUNWAY EXTENSION MOVED THE DER OUT 1104 FT CLOSER TO THE CONTROLLING OBSTACLES.
3. CHANGED ALL CCW SECTORS TO CW IN TEXTUAL DEPARTURE PROCEDURES - IAW 8260.46F APPENDIX D. SEC. 1. 7.A.(4).
4. ADDED "...TO AVOID R-7105 AND UNMARKED TETHERED BALLOON UP TO 15000 MSL" TO RWY 30 TEXTUAL DEPARTURE - PROVIDE ADDITIONAL PROTECTION/CLARITY TO THE USER.
5. UPDATED TAKEOFF OBSTACLES FOR ALL RUNWAYS - NEW OBSTACLE DATA; RUNWAY EXTENSION.
6. CHANGED RWY 12 CONTROLLING OBSTACLES FROM "210 FT MSL STACK 175946.00N/0663223.83W (CLIMB GRADIENT); 3740 FT MSL AAO 181017.82N/0662851.00W (CLIMB-TO-ALTITUDE); 4584 FT MSL TWR 181003.10N/0663435.80W (CLIMB GRADIENT TERMINATION ALTITUDE)" TO "4584 FT MSL TOWER 181003.10N/0663435.80W" - THE 4584 FT TOWER HAS THE MOST ADVERSE EFFECT ON CG, CTA AND CGTA.
7. CHANGED RWY 30 CONTROLLING OBSTACLES FROM "353 FT MSL POLE 180104.05N/0663459.93W" TO "960 FT MSL TOWER 180139.00N/0663808.00W (350 CG/1300 CGTA); 431 FT MSL TRANSMISSION LINE 180117.26N/0663519.79W (500 CEIL); 330 FT MSL POLE 180108.60N/0663525.65W (1 1/8 VIS); 353 FT MSL POLE 180104.05N/0663459.93W (808 CG); 355 FT MSL TREE 180104.21N/0663500.59W (500 CGTA)" - 355 TREE HAS THE MOST ADVERSE EFFECT ON CGTA/ADDED 500-1 1/8 WITH A 350 CG.
8. CHANGED VCOA CONTROLLING OBSTACLE FROM "2037 FT MSL AAO 180447.79N/0663518.35W; 692 FT MSL AAO 180145.51N/0663005.79W (ROUTE)" TO "2013 FT MSL AAO 180449.34N/0663519.65W (VCA)" - NEW CONTROLLING OBSTACLE.

2/20/2019: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 9/14/2018.

1. CHANGED VCA CONTROLLING OBSTACLE FROM "2013 FT MSL AAO 180449.34N/0663519.65W" TO "2267 FT MSL AAO 180502.35N/0663547.91W"
2. CHANGED VCOA CEILING FROM 5200 TO 5100.

QUALITY  
4  
CHECKED