

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.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
NOGALES	THREE	OLS3.OLS	TWO	11/08/2018	03/21/2024

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

DP ROUTE DESCRIPTION:

TAKEOFF RWY 4: CLIMBING LEFT TURN HEADING 270 TO INTERCEPT OLS VOR/DME R-329 TO ARVEY INT/OLS 18. 03 DME, THENCE...

TAKEOFF RWY 22: CLIMBING RIGHT TURN HEADING 018 TO INTERCEPT OLS VOR/DME R-319 TO INKLE INT/OLS 13.92 DME, TO TUS R-176 TO ARVEY INT/OLS 18.03 DME, THENCE...

VISUAL CLIMB OVER AIRPORT: ALL RUNWAYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS NOGALES INTL AIRPORT AT OR ABOVE 11800, MAX 210 KIAS, BEFORE PROCEEDING ON COURSE, THENCE...

...ON TUS VORTAC R-176 TO CROSS TUS VORTAC AT OR ABOVE MEA/MCA FOR ASSIGNED ROUTE OF FLIGHT.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
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PBN REQUIREMENT NOTES:

EQUIPMENT REQUIREMENT NOTES:

PROCEDURAL DATA NOTES:

TAKEOFF MINIMUMS:

RWY 4: 600-3 OR STANDARD WITH MINIMUM CLIMB OF 455 FT/NM TO 4800 OR 8000-5 FOR VCOA.

RWY 22: STANDARD WITH MINIMUM CLIMB OF 350 FT/NM TO 6200 OR 8000-5 FOR VCOA.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 4: TREE 58 FT FROM DER, 455 FT LEFT OF CENTERLINE, 3963 FT MSL. TREE 80 FT FROM DER, 174 FT RIGHT OF CENTERLINE, 6 FT AGL/3958 FT MSL. TREES BEGINNING 97 FT FROM DER, 446 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/3964 FT MSL. TREE 252 FT FROM DER, 43 FT RIGHT OF CENTERLINE, 5 FT AGL/3962 FT MSL. TREE 261 FT FROM DER, 463 FT LEFT OF CENTERLINE, 3971 FT MSL. TREES BEGINNING 308 FT FROM DER, 37 FT RIGHT OF CENTERLINE, UP TO 6 FT AGL/3964 FT MSL. TREES, FENCE BEGINNING 334 FT FROM DER, 136 FT LEFT OF CENTERLINE, UP TO 3987 FT MSL. TREES BEGINNING 368 FT FROM DER, 64 FT RIGHT OF CENTERLINE, UP TO 3991 FT MSL. TREE, TERRAIN BEGINNING 603 FT FROM DER, 546 FT RIGHT OF CENTERLINE, UP TO 3993 FT MSL. TREES, FENCE, TERRAIN BEGINNING 659 FT FROM DER, 13 FT LEFT OF CENTERLINE, UP TO 3995 FT MSL. TREES, TERRAIN, FENCE BEGINNING 833 FT FROM DER, 50 FT RIGHT OF CENTERLINE, UP TO 4010 FT MSL. TREE, TERRAIN BEGINNING 1179 FT FROM DER, 118 FT LEFT OF CENTERLINE, UP TO 5 FT AGL/3996 FT MSL. TREES, TERRAIN BEGINNING 1199 FT FROM DER, 97 FT RIGHT OF CENTERLINE, UP TO 4036 FT MSL. TREES, TERRAIN BEGINNING 1241 FT FROM DER, 66 FT LEFT OF CENTERLINE, UP TO 4018 FT MSL. TREE, TERRAIN BEGINNING 1412 FT FROM DER, 90 FT RIGHT OF CENTERLINE, UP TO 4043 FT MSL. VEHICLES ON ROAD, TERRAIN BEGINNING 1624 FT FROM DER, 642 FT LEFT OF CENTERLINE, UP TO 4028 FT MSL. TERRAIN BEGINNING 1637 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 4052 FT MSL. TREES, VEHICLES ON ROAD, TERRAIN BEGINNING 1688 FT FROM DER, 45 FT LEFT OF CENTERLINE, UP TO 4035 FT MSL. TERRAIN BEGINNING 1825 FT FROM DER, 38 FT RIGHT OF CENTERLINE, UP TO 4067 FT MSL. POLE, VEHICLES ON ROAD, TREES BEGINNING 1853 FT FROM DER, 475 FT LEFT OF CENTERLINE, UP TO 21 FT AGL/4043 FT MSL. TERRAIN 2033 FT FROM DER, 186 FT LEFT OF CENTERLINE, 4047 FT MSL. TREES, VEHICLES ON ROAD, TERRAIN BEGINNING 2041 FT FROM DER, 74 FT LEFT OF CENTERLINE, UP TO 7 FT AGL/4052 FT MSL. TERRAIN 2221 FT FROM DER, 269 FT LEFT OF CENTERLINE, 4055 FT MSL. TREES, VEHICLES ON ROAD, TERRAIN BEGINNING 2253 FT FROM DER, 170 FT LEFT OF CENTERLINE, UP TO 18 FT AGL/4080 FT MSL. TERRAIN BEGINNING 2354 FT FROM DER, 20 FT RIGHT OF CENTERLINE, UP TO 4068 FT MSL. TREES, VEGETATION,



VEHICLES ON ROAD, POLE, TERRAIN BEGINNING 2491 FT FROM DER, 55 FT LEFT OF CENTERLINE, UP TO 14 FT AGL/4093 FT MSL. TERRAIN BEGINNING 2539 FT FROM DER, 125 FT RIGHT OF CENTERLINE, UP TO 4087 FT MSL. VEHICLES ON ROAD 2657 FT FROM DER, 32 FT LEFT OF CENTERLINE, 15 FT AGL/4095 FT MSL. VEHICLES ON ROAD, TREES, TERRAIN BEGINNING 2672 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/4096 FT MSL. VEHICLES ON ROAD, TERRAIN BEGINNING 2688 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 15 FT AGL/4096 FT MSL. TERRAIN, VEHICLES ON ROAD BEGINNING 2768 FT FROM DER, 98 FT RIGHT OF CENTERLINE, UP TO 4112 FT MSL. VEHICLES ON ROAD 2987 FT FROM DER, 530 FT RIGHT OF CENTERLINE, 4117 FT MSL. VEHICLES ON ROAD 2995 FT FROM DER, 635 FT RIGHT OF CENTERLINE, 4121 FT MSL. VEHICLES ON ROAD, TERRAIN BEGINNING 3009 FT FROM DER, 489 FT RIGHT OF CENTERLINE, UP TO 4123 FT MSL. VEHICLES ON ROAD, TERRAIN BEGINNING 3351 FT FROM DER, 12 FT RIGHT OF CENTERLINE, UP TO 4130 FT MSL. VEHICLES ON ROAD, TERRAIN BEGINNING 3449 FT FROM DER, 633 FT RIGHT OF CENTERLINE, UP TO 4143 FT MSL. VEHICLES ON ROAD 3499 FT FROM DER, 1364 FT RIGHT OF CENTERLINE, 4149 FT MSL. VEHICLES ON ROAD, TERRAIN, VEGETATION BEGINNING 3570 FT FROM DER, 101 FT RIGHT OF CENTERLINE, UP TO 4155 FT MSL. TERRAIN BEGINNING 3581 FT FROM DER, 42 FT LEFT OF CENTERLINE, UP TO 4112 FT MSL. TERRAIN BEGINNING 4127 FT FROM DER, 627 FT RIGHT OF CENTERLINE, UP TO 4156 FT MSL. TREE, TERRAIN BEGINNING 4143 FT FROM DER, 768 FT RIGHT OF CENTERLINE, UP TO 4180 FT MSL. TREES, TERRAIN BEGINNING 4262 FT FROM DER, 426 FT RIGHT OF CENTERLINE, UP TO 4184 FT MSL. TREE, TERRAIN BEGINNING 4495 FT FROM DER, 709 FT RIGHT OF CENTERLINE, UP TO 4210 FT MSL. TERRAIN BEGINNING 4627 FT FROM DER, 1171 FT RIGHT OF CENTERLINE, UP TO 4217 FT MSL. TREES, TERRAIN BEGINNING 4737 FT FROM DER, 216 FT RIGHT OF CENTERLINE, UP TO 4223 FT MSL. TREE, TERRAIN BEGINNING 5806 FT FROM DER, 343 FT RIGHT OF CENTERLINE, UP TO 4241 FT MSL. TREES, TERRAIN BEGINNING 5953 FT FROM DER, 409 FT RIGHT OF CENTERLINE, UP TO 4254 FT MSL. TREES, TERRAIN BEGINNING 1 NM FROM DER, 58 FT RIGHT OF CENTERLINE, UP TO 4256 FT MSL. TREE, TERRAIN BEGINNING 1 NM FROM DER, 1260 FT LEFT OF CENTERLINE, UP TO 4136 FT MSL. TREES, TERRAIN BEGINNING 1.1 NM FROM DER, 433 FT LEFT OF CENTERLINE, UP TO 4151 FT MSL. TREES, POLE, TERRAIN BEGINNING 1.2 NM FROM DER, 75 FT LEFT OF CENTERLINE, UP TO 16 FT AGL/4221 FT MSL. TREES, VEGETATION, TERRAIN BEGINNING 1.3 NM FROM DER, 84 FT LEFT OF CENTERLINE, UP TO 4254 FT MSL. TREES, TERRAIN BEGINNING 1.4 NM FROM DER, 25 FT LEFT OF CENTERLINE, UP TO 11 FT AGL/4283 FT MSL. TREE, TERRAIN BEGINNING 1.4 NM FROM DER, 140 FT RIGHT OF CENTERLINE, UP TO 4326 FT MSL. TREE, TERRAIN BEGINNING 1.5 NM FROM DER, 79 FT RIGHT OF CENTERLINE, UP TO 11 FT AGL/4327 FT MSL. TREE, TERRAIN BEGINNING 1.7 NM FROM DER, 639 FT RIGHT OF CENTERLINE, UP TO 4345 FT MSL. TREE, TERRAIN BEGINNING 1.8 NM FROM DER, 172 FT RIGHT OF CENTERLINE, UP TO 4367 FT MSL. TREE, TERRAIN BEGINNING 1.9 NM FROM DER, 628 FT RIGHT OF CENTERLINE, UP TO 4384 FT MSL. TERRAIN, VEHICLES ON ROAD, TREES BEGINNING 2 NM FROM DER, 935 FT RIGHT OF CENTERLINE, UP TO 4406 FT MSL. TERRAIN 2.1 NM FROM DER, 616 FT LEFT OF CENTERLINE, 4299 FT MSL. TERRAIN, VEHICLES ON ROAD, TREES BEGINNING 2.2 NM FROM DER, 1859 FT RIGHT OF CENTERLINE, 234 FT LEFT OF CENTERLINE, UP TO 4451 FT MSL. TERRAIN, TREES, VEHICLES ON ROAD BEGINNING 2.3 NM FROM DER, 835 FT RIGHT OF CENTERLINE, UP TO 14 FT AGL/4535 FT MSL.

CONTROLLING OBSTACLES:

RWY 22: 4760 FT MSL AAO 312347.21N/1105521.42W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE).

VISUAL CLIMB AREA OBSTACLE: 6620 FT MSL AAO N312439.14N/W1104511.74W

MSA:

LOST COMMUNICATIONS PROCEDURES:

CHART: V395, CHART R-2303 A & B. CHART UNITED STATES/MEXICO BORDER.

AIRPORTS SERVED:

COMMUNICATIONS:

QUALITY
20
CHECKER

FIXES AND/OR NAVAIDS:

REMARKS:
MAXIMUM VEGETATION HEIGHT 55 FT
WAIVER SUBMITTED FOR DR LEG IN EXCESS OF 10 NM.
VCOA PATTERN MAX 210 KIAS. SPEED RESTRICTION ON VCOA PER ATC DUE TO NEIGHBORING RESTRICTED AREA AND MEXICO AIRSPACE.

<u>FLIGHT INSPECTED BY</u>		<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	
PENDING		<div>Digitally signed by CASIMIR L TABAKA Jan 18, 2024</div>			
<u>DEVELOPED BY</u>	<div>Digitally signed by CASIMIR L TABAKA Oct 26, 2023</div>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	
APRIL SARMENTO			AJV-A432	08/14/2023	
<u>APPROVED BY</u>	<div>Digitally signed by CASIMIR L TABAKA Oct 26, 2023</div>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
CASIMIR TABAKA			AJV-A432		MANAGER

REQUIRED EFFECTIVE DATE
03/21/2024

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZAB, AMGR, TUS ATCT

CHANGES - REASONS:

- UPDATED RWY NUMBERS FROM 3/21 TO 4/22 - MAGVAR UPDATE.
- DP ROUTE DESCRIPTION RWY 4: CHANGED FROM "CLIMBING LEFT TURN HEADING 296 TO INTERCEPT OLS VOR/DME R-326 TO ARVEY INT/OLS 18.03 DME, THENCE..." TO "CLIMBING LEFT TURN HEADING 270 TO INTERCEPT OLS VOR/DME R-329 TO ARVEY INT/OLS 18. 03 DME, THENCE..." - MAGVAR UPDATED/ ATC CHANGED WITH A DR SEGMENT LENGTH WAIVER.
- DP ROUTE DESCRIPTION RWY 22: CHANGED FROM "CLIMB RIGHT TURN HEADING 356 TO INTERCEPT OLS VOR/DME R-326 TO ARVEY INT/OLS 18.03 DME, THENCE..."CLIMBING RIGHT TURN HEADING 018 TO INTERCEPT OLS VOR/DME R-319 TO INKLE INT/OLS 13.92 DME, TO ARVEY INT/OLS 18.03 DME, DIRECT TUS VORTAC, THENCE..." - MAGVAR UPDATED/ATC CHANGED WITH DR SEGMENT LENGTH WAIVER.
- DP ROUTE DESCRIPTION: VISUAL CLIMB OVER AIRPORT: ALL RUNWAYS: CHANGED FROM "OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS NOGALES INTL AIRPORT AT OR ABOVE 6900 BEFORE PROCEEDING ON OLS R-326 TO ARVEY INT/OLS 18.03 DME, THENCE..." TO "OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS NOGALES INTL AIRPORT AT OR ABOVE 11800, MAX 210 KIAS, BEFORE PROCEEDING ON COURSE, THENCE..." - PER ATC, ADDED A 210 SPEED RESTRICTION TO VCOA TO AVOID OVERLAP OF VCOA INTO RESTRICTED AREA R-2303 A & B TO THE EAST AND MEXICO AIRSPACE TO THE SOUTH.
- TAKE-OFF MINIMUMS RWY 4: CHANGED FROM "400-1 3/4 WITH MINIMUM CLIMB OF 325 FT PER NM TO 5100 OR STANDARD WITH MINIMUM CLIMB OF 455 FT PER NM TO 5100 OR 1300-3 FOR VCOA" TO "600-3 OR STANDARD WITH MINIMUM CLIMB OF 455 FT/NM TO 4800 OR 8000-5 FOR VCOA" - NEW OBSTACLE EVALUATION/SPEED RESTRICTION ADDED TO VCOA.
- TAKEOFF MINIMUMS RWY 22: CHANGED FROM "STANDARD WITH MINIMUM CLIMB OF 350 FT PER NM TO 5100 OR 1300-3 FOR VCOA" TO "STANDARD WITH MINIMUM CLIMB OF 365 FT/NM TO 6800 OR 8000-5 FOR VCOA" - NEW OBSTACLE EVALUATION/SPEED RESTRICTION ADDED TO VCOA.
- UPDATED TAKEOFF OBSTACLE NOTES - NEW OBSTACLE EVALUATION.
- CONTROLLING OBSTACLES: RWY 4 CHANGED FROM "RWY 3: 4760 FT MSL AAO 312757.23N/114749.29W (325 CLIMB GRADIENT/325 CLIMB GRADIENT TERMINATION ALTITUDE/455 CLIMB GRADIENT TERMINATION ALTITUDE), 4210 FT MSL TREE 312549.72N/1104934.41W (455 CLIMB GRADIENT), 4327 FT MSL TREE 312620.05N/1104854.36W (CEILING/ VISIBILITY)" TO "4210 FT MSL TREE (04-030329) 312549.72N/1104934.41W (CLIMB GRADIENT AND CLIMB GRADIENT TERMINATION ALTITUDE), 4535 FT MSL TREE (04-036074) 312642.08N/1104758.03W (CEILING), 4409 FT MSL TREE 312742.44N/1104844.05W (VISIBILITY)" - NEW OBSTACLE EVALUATION/MAP STUDY.
- CONTROLLING OBSTACLES: RWY 22 CHANGED FROM "4765 FT MSL AAO 312346.53N/1105521.51W" TO "4760 FT MSL AAO 312347.21N/110552142 (CLIMB GRADIENT/CLIMB TO ALTITUDE)" - NEW OBSTACLE EVALUATION/MAP STUDY.
- CONTROLLING OBSTACLES: VCOA: CHANGED FROM "RWY 3, 21: 6559 FT MSL AAO 312654.00N/1104612.00W (VCOA)" TO "VISUAL CLIMB AREA OBSTACLE: 6560 FT MSL AAO 312704.29N/1104557.65W AND OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE: 15000 FT MSL TETHERED BALLOON 312907.00N/1101747.00W.- ADDED A 210 SPEED RESTRICTION TO VCOA/NEW MAP STUDY/RWY NUMBER CHANGE.



11. REMARKS: ADDED "MAXIMUM VEGETATION HEIGHT 55 FT PER FPT", "WAIVER SUBMITTED FOR DR LEG IN EXCESS OF 10 NM", AND "VCOA PATTERN MAX 210 KIAS. SPEED RESTRICTION ON VCOA PER ATC DUE TO NEIGHBORING RESTRICTED AREA AND MEXICO AIRSPACE" - NEW INFORMATION.

11/13/2023: THIS IS A UPDATED COPY OF THE FORM DEVELOPED ON 8/14/2023
CHANGED ARVEY OLS 18.60 DME TO ARVEY OLS 18.03 DME AND INKLE OLS 15.8 DME TO INKLE OLS 13.92 DME.

11/21/2023: THIS IS A UPDATED COPY OF THE FORM DEVELOPED ON 8/14/2023
CHANGE THE VISUAL CLIMB AREA OBSTACLE TO 6620 FT MSL AAO N312439.14N/W1104511.74W

01/18/2024: THIS IS A UPDATED COPY OF THE FORM DEVELOPED ON 8/14/2023
1. CHANGED REQUIRED EFFECTIVE DATE FROM "ROUTINE" TO "03/21/2024" - PROJECT REQUIRES A HARD DATE.

