

**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SUPERSEDED NUMBER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>
GRZZZ	FOUR	GRZZZ4.GRZZZ	THREE	06/25/2015	2 DEC 21

<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 3: CLIMB ON HEADING 033.79 TO 5860, THEN LEFT TURN DIRECT ROWHO, THEN ON TRACK 356.67 TO CROSS GRZZZ AT OR ABOVE 13000 , THENCE ...

TAKEOFF RWY 8: CLIMB ON HEADING 079.43 TO 5860 AND DIRECT TYILR AT OR ABOVE 5900, THEN LEFT TURN DIRECT ROWHO, THEN ON TRACK 356.67 TO CROSS GRZZZ AT OR ABOVE 13000, THENCE ...

...(TRANSITION). MAINTAIN FL200, EXPECT FILED ALTITUDE TEN 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>
FLAVA	GRZZZ4.FLAVA	GRZZZ	DNIDE	TRACK 039.75	06.44	13000	8100	
		DNIDE	FLAVA	TRACK 063.30	68.47	14000	12600	
JLPNO	GRZZZ4.JLPNO	GRZZZ	DNIDE	TRACK 039.75	06.44	13000	8100	
		DNIDE	JLPNO	TRACK 074.98	55.23	14000	10700	
POPRR	GRZZZ4.POPRR	GRZZZ	DNIDE	TRACK 039.75	06.44	13000	8100	
		DNIDE	JLPNO	TRACK 074.98	55.23	14000	10700	
		JLPNO	POPRR	TRACK 074.77	24.99	14000	9800	

PROCEDURAL DATA NOTES:

NOTE: TAKEOFF RWY 8, DO NOT EXCEED 210 KIAS UNTIL PASSING TYILR.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: FOR USE BY TURBOJET AIRCRAFT ONLY.

NOTE: RNAV 1.

NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

NOTE: IF UNABLE TO ACCEPT CLIMB GRADIENT, ADVISE ATC ON INITIAL CONTACT.

TAKEOFF MINIMUMS:

RWY 3: STANDARD

RWY 8: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 8700.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

RWY 8: 7879 FT MSL AAO 350701.33N/1062829.39W

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 3, 8 - 10897 FT MSL TOWER 351249.89N/1062703.38W.

QUALITY
8
CHECKED

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
GRZZZ	FOUR	GRZZZ4.GRZZZ	THREE	06/25/2015	2 DEC 21

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

REFERENCE MAG VAR: KABQ 11E EPOCH YR: 1995.

DME/DME ASSESSMENT: SAT (RNP 2.0)

CHART: TOP ALTITUDE: FL200

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
ALBUQUERQUE INTL SUNPORT	KABQ	ALBUQUERQUE	NM

COMMUNICATIONS:

ATIS, CLNC DEL, ABQ GND CON, ABQ ATCT, ABQ DEP CON, ZAB

FIXES AND/OR NAVAIDS:**REMARKS:**

100FT VEGETATION HEIGHT USED PER FPT

99TH PERCENTILE TAIL WINDS USED FOR RWY 3 TRANSITIONS: ROWHO - 40.02, GRZZZ - 47.97; RWY 8 TRANSITIONS: ROWHO - 40.02, GRZZZ - 47.97; ENROUTE TRANSITION: DNIDE - 58.76 PER FPT. (2016-2020 HISTORIC WINDS)

RWY 8: 500FT/NM TO 8700 PER ATC REQUEST FOR EARLY TURN DUE TO NOISE ABATEMENT AND TERRAIN AVOIDANCE, LNAV ENGAGEMENT, AND OBSTACLE AVOIDANCE.

FLIGHT INSPECTED BY

BRYAN VEIT	<i>Digitally signed by</i> JASON KRETSCHMER Sep 27, 2021	<u>OFFICE</u> FPO	<u>DATE</u> 09/15/2021
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DEVELOPED BY

JASON KRETSCHMER (HENRY BRADSHAW)	<i>Digitally signed by</i> JASON KRETSCHMER Aug 30, 2021	<u>OFFICE</u> AJV-A421	<u>DATE</u> 06/30/2021
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APPROVED BY

MARLON ROBINSON	<i>Digitally signed by</i> JASON KRETSCHMER Aug 30, 2021	<u>OFFICE</u> AJV-A420	<u>DATE</u>	<u>TITLE</u> MANAGER
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REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:**ZAB ARTCC, AMGR, ABQ DEP CON, ABQ ATCT**CHANGES - REASONS:**

1. DP ROUTE DESCRIPTION: RWY 3 CHANGED FROM "CLIMB HEADING 033.79 TO 5860, THEN LEFT TURN DIRECT ROWHO, THEN ON TRACK 356.67 TO GRZZZ. THENCE..." TO "TAKEOFF RWY 3: CLIMB ON HEADING 033.79 TO 5860, THEN LEFT TURN DIRECT ROWHO, THEN ON TRACK 356.67 TO CROSS GRZZZ AT OR ABOVE 13000 , THENCE ..." - UPDATED EVALUATION; 8260.46G APPENDIX D, 8.A.

2. DP ROUTE DESCRIPTION: RWY 8 CHANGED FROM "CLIMB HEADING 079.43 TO 5860 AND DIRECT TYILR, THEN LEFT TURN DIRECT ROWHO, THEN ON TRACK 356.67 TO GRZZZ. THENCE..." TO "TAKEOFF RWY 8: CLIMB ON HEADING 079.43 TO 5860 AND DIRECT TYILR AT OR ABOVE 5900, THEN LEFT TURN DIRECT ROWHO, THEN ON TRACK 356.67 TO CROSS GRZZZ AT OR ABOVE 13000, THENCE ..." - UPDATED EVALUATION; 8260.46G APPENDIX D, 8.A.

3. TRANSITION ROUTES: CHANGED TRANSITION NAME "FORT UNION" TO "FLAVA"; CHANGED GRZZZ TO DNIDE COURSE AND DISTANCE FROM "TRACK 038.22/6.63" TO "TRACK 039.75/6.44", MOCA FROM "12100" TO "8100"; CHANGED "FTI VORTAC" TO "FLAVA", DISTANCE FROM "68.48" TO "68.47" AND MOCA FROM "11100" TO "12600" - FPT REQUEST TO MOVE FIX GRZZZ AND CREATE NEW FIX FLAVA; UPDATED EVALUATION.



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
GRZZZ	FOUR	GRZZZ4.GRZZZ	THREE	06/25/2015	2 DEC 21
<p>4. TRANSITION ROUTES: CHANGED TRANSITION NAME "TUCUMCARI" TO "POPRR"; CHANGED GRZZZ TO DNIDE COURSE AND DISTANCE FROM "TRACK 038.22/6.63" TO "TRACK 039.75/6.44", MOCA FROM "12100" TO "8100"; CHANGED DNIDE TO JLPNO MOCA FROM "11100" TO "10700"; CHANGED "TCC VORTAC" TO "POPRR", COURSE FROM "TRACK 87.65" TO "74.77", DISTANCE FROM "87.65" TO "24.99", AND MOCA FROM "9700" TO "9800" - FPT REQUEST TO MOVE FIX GRZZZ AND CREATE NEW FIX POPRR; UPDATED EVALUATION.</p> <p>5. PROCEDURAL DATA NOTES: CHANGED "NOTE: TAKEOFF RWY 8, DO NOT EXCEED 230 KIAS UNTIL PASSING TYILR." TO "NOTE: TAKEOFF RWY 8, DO NOT EXCEED 210 KIAS UNTIL PASSING TYILR." - FPT REQUEST.</p> <p>6. PROCEDURAL DATA NOTE: REMOVED "NOTE: FOR NON-GPS EQUIPPED AIRCRAFT ON: TCC TRANSITION: ONM, ABQ, SAF, AND FTI DME'S MUST BE OPERATIONAL. FTI TRANSITION: SAF AND ACH DME'S MUST BE OPERATIONAL." - NO CRITICAL DME FACILITIES REQUIRED.</p> <p>7. CHANGED TAKEOFF OBSTACLES NOTES FROM "NOTE: RWY 3, TANK 4961 FT FROM DER, 1708 FT LEFT OF CENTERLINE, 150 FT AGL/5466 FT MSL. WATER TOWER 4984 FT FROM DER, 1713 FT LEFT OF CENTERLINE, 156 FT AGL/5468 FT MSL." TO "NOTE: SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)." - 8260.46G, SECTION 2, 7.</p> <p>8. CHANGED RWY 8 CONTROLLING OBSTACLE FROM "RWY 8: 7158 FT MSL AAO 350130.00N/1062903.00W." TO "RWY 8: 7879 FT MSL AAO 350700.00N/1062830.00W" - UPDATED EVALUATION.</p> <p>9. ADDED JLPNO TRANSITION - FPT REQUESTED.</p> <p>10. UPDATED "RADAR REQUIRED" TO "RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT." - 8260.46G, 3-1-5, D(7).</p> <p>11. CHANGED RWY 3 TAKEOFF MINIMUMS FROM "RWY 3: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 11100." TO "RWY 3: STANDARD" - 8260.46G 3-1-1 M NOTE</p> <p>12. CHANGED RWY 8 TAKEOFF MINIMUMS FROM "RWY 8: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 10600." TO "RWY 8: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 8700" - 8260.46G, 2-1-1, E(2)(A); UPDATED EVALUATION AND COMBINATION OF LNAV ENGAGEMENT CLIMB GRADIENT AND OBSTACLE CLIMB GRADIENT.</p> <p>13. REMARKS: ADDED "100FT VEGETATION HEIGHT USED PER FPT." - FACILITATE PERIODIC REVIEWS.</p> <p>14. REMARKS: ADDED "99TH PERCENTILE TAIL WINDS USED FOR RWY 3 TRANSITIONS: ROWHO - 40.02, GRZZZ - 47.97; RWY 8 TRANSITIONS: ROWHO - 40.02, GRZZZ - 47.97; ENROUTE TRANSITION SEGMENT DNIDE - 58.76 PER FPT. (2016-2020 HISTORIC WINDS)" - FACILITATE PERIODIC REVIEWS</p> <p>15. REMARKS: "RWY 8: 500FT/NM TO 8700 PER ATC REQUEST FOR EARLY TURN DUE TO NOISE ABATEMENT AND TERRAIN AVOIDANCE, LNAV ENGAGEMENT, AND OBSTACLE AVOIDANCE." - FACILITATE PERIODIC REVIEWS</p>					



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

DP NAME				NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		ACTUAL EFFECTIVE DATE	
GRZZZ				FOUR		GRZZZ4.GRZZZ		THREE		06/25/2015		2 DEC 21	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS				
RW03 (AER)	350120.09N/1063750.17W	N	-	-	-	-							
5860 MSL	-	-	-	VA	044.79	-	AT/ABOVE 5860						
ROWHO	351158.99N/1063559.88W	Y	FB	DF	-	-			LEFT TURN				
GRZZZ	351715.83N/1063507.85W	Y	FB	TF	007.67	05.32	AT/ABOVE 13000						
RW08 (AER)*	350239.60N/1063705.69W*	N	-	-	-	-			*DISPL THLD (1000.0 FT)				
5860 MSL	-	-	-	VA	090.43	-	AT/ABOVE 5860		CG 500 FT PER NM TO 8700				
TYILR	350237.83N/1063255.42W	Y	FO	DF	-	-	AT/ABOVE 5900	AT/BELOW 210K					
ROWHO	351158.99N/1063559.88W	Y	FB	DF	-	09.67			LEFT TURN				
GRZZZ	351715.83N/1063507.85W	Y	FB	TF	007.67	05.32	AT/ABOVE 13000						
GRZZZ	351715.83N/1063507.85W	Y	-	IF	-	-	AT/ABOVE 13000		GRZZZ4.FLAVA				
DNIDE	352120.63N/1062901.89W	Y	FB	TF	050.75	06.44							
FLAVA	353927.03N/1050808.85W	Y	FB	TF	074.30	68.47							
GRZZZ	351715.83N/1063507.85W	Y	-	IF	-	-	AT/ABOVE 13000		GRZZZ4.JLPNO				
DNIDE	352120.63N/1062901.89W	Y	FB	TF	050.75	06.44							
JLPNO	352454.54N/1052137.80W	Y	FB	TF	085.98	55.23							
GRZZZ	351715.83N/1063507.85W	Y	-	IF	-	-	AT/ABOVE 13000		GRZZZ4.POPRR				
DNIDE	352120.63N/1062901.89W	Y	FB	TF	050.75	06.44							
JLPNO	352454.54N/1052137.80W	Y	FB	TF	085.98	55.23							

QUALITY

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DP NAME						NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
GRZZZ						FOUR	GRZZZ4.GRZZZ	THREE	06/25/2015	2 DEC 21
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
POPRR	352641.43N/1045107.46W	Y	FB	TF	085.77	24.99				

QUALITY
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