

**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SUPERSEDED NUMBER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>
AZONE	SEVEN	AZONE7.AZONE	SIX	11/08/2018	31 DEC 2020

<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"/>

This is a corrected copy of the procedure published in NFDD 199.

DP ROUTE DESCRIPTION:

- TAKEOFF RWY 9:** CLIMB ON HEADING 092.95 TO 860, THEN CONTINUE CLIMB TO 2300 ON HEADING 092.95 OR AS ASSIGNED BY ATC, FOR VECTORS TO TOWND, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
- TAKEOFF RWY 18C:** CLIMB ON HEADING 180.01 TO INTERCEPT COURSE 160.50 TO RIBZZ, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
- TAKEOFF RWY 18L:** CLIMB ON HEADING 180.00 TO INTERCEPT COURSE 162.80 TO RIBZZ, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
- TAKEOFF RWY 18R:** CLIMB ON HEADING 179.99 TO INTERCEPT COURSE 153.00 TO RIBZZ, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
- TAKEOFF RWY 27:** CLIMB ON HEADING 272.97 TO 860, THEN CONTINUE CLIMB TO 2300 ON HEADING 272.97 OR AS ASSIGNED BY ATC, FOR VECTORS TO TOWND, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
- TAKEOFF RWY 36C:** CLIMB ON HEADING 000.01 TO INTERCEPT COURSE 031.99 TO JAAXX, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
- TAKEOFF RWY 36L:** CLIMB ON HEADING 359.99 TO INTERCEPT COURSE 034.98 TO JAAXX, THEN ON DEPICTED ROUTE TO AZONE, THENCE...
- TAKEOFF RWY 36R:** CLIMB ON HEADING 360.00 TO INTERCEPT COURSE 031.98 TO JAAXX, THEN ON DEPICTED ROUTE TO AZONE, THENCE...

...MAINTAIN 5000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN TEN (10) 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>
PITEW	AZONE7.PITEW	AZONE	PITEW	TRACK 090.49	2.00	9200	2000	

PROCEDURAL DATA NOTES:

- NOTE:** DME/DME/IRU OR GPS REQUIRED.
- NOTE:** RNAV 1.
- NOTE:** TURBOJETS ONLY.
- NOTE:** TAKEOFF RWY 18L, 18C, 18R, 36L, 36C, 36R - RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
- NOTE:** TAKEOFF RWY 9, 27 - RADAR REQUIRED.
- NOTE:** TRANSPONDER CODE WILL BE ISSUED VIA PDC OR MEMPHIS CLEARANCE DELIVERY.
- NOTE:** ACCELERATE TO 250 KIAS, REACHING 10,000 MSL, MAINTAIN 250 KIAS OR GREATER, IF UNABLE ADVISE ATC.
- NOTE:** PROCEDURE NOT AUTHORIZED WHEN COLUMBUS 4 MOA ACTIVE.
- NOTE:** IF UNABLE TO ACCEPT CLIMB RATE, ADVISE ATC ON INITIAL CONTACT.

TAKEOFF MINIMUMS:

RWY 9, 18C, 18L, 18R, 27, 36L, 36C, 36R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 860.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

RWY 36C: 617 FT MSL ATC TOWER 350258.68N/0895853.69W.

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>
AZONE	SEVEN	AZONE7.AZONE	SIX	11/08/2018	31 DEC 2020

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KMEM 1W EPOCH YEAR: 2020.
 DME/DME ASSESSMENT: SAT (RNP 2.0)
 CHART: TOP ALTITUDE 5000

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
MEMPHIS INTL	KMEM	MEMPHIS	TN

COMMUNICATIONS:

ATIS, CLNC DEL, GRND CON, TOWER, DEP CON

FIXES AND/OR NAVAIDS:

HENIR, WRRTZ, AYERR, STJUD, SWIND

REMARKS:

WAIVER ON REQUEST TO REMOVE MINIMUM IF CROSSING ALTITUDE AT TOWN D PER 8260.46F, APPENDIX E, SECTION 1, PARAGRAPH 10C, PER ATC REQUEST.
 A COURSE CHANGE OF 45 DEGREES WAS USED AT THE IDF IN LIEU OF 90 DEGREES (AT OR BELOW FL195) AND 70 DEGREES (ABOVE FL195). REQUIRED ATC APPROVAL IS ATTACHED.
 THE ENVIRONMENTAL REVIEW UNDER ORDER 1050.1F AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.
 CATEGORICAL EXCLUSION ISSUED.
 ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020.
 SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED.

Digitally signed by
WARDELL HENNING
 Oct 15, 2020

OFFICE

DATE

DEVELOPED BY

THOR CORNELL

Digitally signed by
WARDELL HENNING
 Oct 15, 2020

OFFICE
 AJV-A432

DATE
 07/31/2020

APPROVED BY

LONNIE EVERHART

Digitally signed by
WARDELL HENNING
 Oct 15, 2020

OFFICE
 AJV-A430

DATE

TITLE
 MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZME, MEM APP CON, MEM ATCT, ARPT MGR

CHANGES - REASONS:

1. CHANGED NOTE: "ACCELERATE TO 250 KIAS, IF UNABLE ADVISE ATC" TO "ACCELERATE TO 250 KIAS, REACHING 10,000 MSL, MAINTAIN 250 KIAS OR GREATER, IF UNABLE ADVISE ATC". - ATC REQUEST.
2. CHANGED ALL ROUTE DESCRIPTIONS OF "CLIMB HEADING" TO "CLIMB ON HEADING". - PER 8260.46G, 1-1-5 A3.

10/15/20: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 09/29/20.

1. ADDED PROCEDURAL DATA NOTE: DME/DME/IRU OR GPS REQUIRED.



**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>
AZONE	SEVEN	AZONE7.AZONE	SIX	11/08/2018	31 DEC 2020

<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>
RW09 (AER)	350331.04N/0895908.63W	N	-	-	-	-			
860 MSL	-	-	-	VA	091.95				CG 500 FT/NM TO 860
2300 MSL	-	-	-	VM	091.95				
TOWND	350125.72N/0891211.76W	Y	FB	DF	-	-			
AZONE	350127.70N/0890751.62W	Y	FB	TF	089.45	3.56			
RW18C (AER)	350316.54N/0895834.21W	N	-	-	-	-			
	345927.90N/0895829.40W	-	-	VI	179.01	3.81			CG 500 FT/NM TO 860
RIBZZ	345550.46N/0895650.61W	Y	FB	CF	159.50	3.86			
HENIR	345532.36N/0895025.95W	Y	FB	TF	093.24	5.28			
WRRTZ	345805.90N/0894505.99W	Y	FB	TF	059.74	5.07			
TOWND	350125.72N/0891211.76W	Y	FB	TF	082.83	27.24			
AZONE	350127.70N/0890751.62W	Y	FB	TF	089.45	3.56			
RW18L (AER)	350255.74N/0895822.63W	N	-	-	-	-			
	345929.88N/0895818.28W	-	-	VI	179.00	3.43			CG 500 FT/NM TO 860
RIBZZ	345550.46N/0895650.61W	Y	FB	CF	161.80	3.84			
HENIR	345532.36N/0895025.95W	Y	FB	TF	093.24	5.28			
WRRTZ	345805.90N/0894505.99W	Y	FB	TF	059.74	5.07			
TOWND	350125.72N/0891211.76W	Y	FB	TF	082.83	27.24			
AZONE	350127.70N/0890751.62W	Y	FB	TF	089.45	3.56			



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AZONE		SEVEN		AZONE7.AZONE		SIX		11/08/2018		31 DEC 2020	
<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>		
RW18R (AER)	350258.16N/0895914.79W	N	-	-	-	-					
	345926.57N/0895910.26W	-	-	VI	178.99	3.52			CG 500 FT/NM TO 860		
RIBZZ	345550.46N/0895650.61W	Y	FB	CF	152.00	4.07					
HENIR	345532.36N/0895025.95W	Y	FB	TF	093.24	5.28					
WRRTZ	345805.90N/0894505.99W	Y	FB	TF	059.74	5.07					
TOWND	350125.72N/0891211.76W	Y	FB	TF	082.83	27.24					
AZONE	350127.70N/0890751.62W	Y	FB	TF	089.45	3.56					
RW27 (AER)	350328.01N/0895721.08W	N	-	-	-	-					
860 MSL		-	-	VA	271.97	-			CG 500 FT/NM TO 860		
2300 MSL		-	-	VM	271.97	-					
TOWND	350125.72N/0891211.76W	Y	FB	DF	-	-					
AZONE	350127.70N/0890751.62W	Y	FB	TF	089.45	3.56					
RW36C (AER)	350126.58N/0895831.90W	N	-	-	-	-					
	350432.56N/0895835.81W	-	-	VI	359.01	3.10			CG 500 FT/NM TO 860		
JAAXX	350832.89N/0895540.25W	Y	FB	CF	030.99	4.66					
AYERR	350824.81N/0895003.18W	Y	FB	TF	091.64	4.61					
STJUD	350706.68N/0894445.11W	Y	FB	TF	106.62	4.54					
SWIND	350511.90N/0892851.31W	Y	FB	TF	098.25	13.18					
TOWND	350125.72N/0891211.76W	Y	FB	TF	105.31	14.19					
AZONE	350127.70N/0890751.62W	Y	FB	TF	089.45	3.56					



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AZONE		SEVEN	AZONE7.AZONE	SIX	11/08/2018	31 DEC 2020			
<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>
RW36L (AER)	350125.98N/0895912.81W	N	-	-	-	-			
	350409.28N/0895916.32W	-	-	VI	358.99	2.72			CG 500 FT/NM TO 860
JAAXX	350832.89N/0895540.25W	Y	FB	CF	033.98	5.29			
AYERR	350824.81N/0895003.18W	Y	FB	TF	091.64	4.61			
STJUD	350706.68N/0894445.11W	Y	FB	TF	106.62	4.54			
SWIND	350511.90N/0892851.31W	Y	FB	TF	098.25	13.18			
TOWND	350125.72N/0891211.76W	Y	FB	TF	105.31	14.19			
AZONE	350127.70N/0890751.62W	Y	FB	TF	089.45	3.56			
RW36R (AER)	350126.74N/0895820.75W	N	-	-	-	-			
	350447.29N/0895824.99W	-	-	VI	359.00	3.34			CG 500 FT/NM TO 860
JAAXX	350832.89N/0895540.25W	Y	FB	CF	030.98	4.38			
AYERR	350824.81N/0895003.18W	Y	FB	TF	091.64	4.61			
STJUD	350706.68N/0894445.11W	Y	FB	TF	106.62	4.54			
SWIND	350511.90N/0892851.31W	Y	FB	TF	098.25	13.18			
TOWND	350125.72N/0891211.76W	Y	FB	TF	105.31	14.19			
AZONE	350127.70N/0890751.62W	Y	FB	TF	089.45	3.56			
ENROUTE									
AZONE	350127.70N/0890751.62W	Y	-	IF	-	-			AZONE7.PITEW
PITEW	350128.75N/0890525.51W	Y	FB	TF	089.49	2.00			

