

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
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DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
DUCKZ	FOUR	DUCKZ4.DUCKZ	THREE	04/30/2015	17 AUG 2017

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

DP ROUTE DESCRIPTION:

TAKEOFF RWY 9: CLIMB HEADING 092.95 TO 860, THEN CONTINUE CLIMB ON HEADING 092.95, EXPECT VECTORS TO WSTIN, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...
TAKEOFF RWY 18C: CLIMB HEADING 180.01 TO INTERCEPT COURSE 211.62 TO CHETO, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...
TAKEOFF RWY 18L: CLIMB HEADING 180.00 TO INTERCEPT COURSE 214.15 TO CHETO, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...
TAKEOFF RWY 18R: CLIMB HEADING 179.99 TO INTERCEPT COURSE 201.96 TO CHETO, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...
TAKEOFF RWY 27: CLIMB HEADING 272.97 TO 860, THEN CONTINUE CLIMB ON HEADING 272.97, EXPECT VECTORS TO WSTIN, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...
TAKEOFF RWY 36C: CLIMB HEADING 000.01 TO INTERCEPT COURSE 324.54 TO BEEAL, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...
TAKEOFF RWY 36L: CLIMB HEADING 359.99 TO INTERCEPT COURSE 332.06 TO BEEAL, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...
TAKEOFF RWY 36R: CLIMB HEADING 360.00 TO INTERCEPT COURSE 324.58 TO BEEAL, THEN ON DEPICTED ROUTE TO DUCKZ, THENCE...
...MAINTAIN 5000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN TEN (10) MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES
HELAR	DUCKZ4.HELAR	DUCKZ	HELAR	TRACK 271.52	2.00	9200	1800	

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, IF UNABLE ADVISE ATC.
NOTE: IF UNABLE TO ACCEPT CLIMB RATES, 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:

NOTE: RWY 9: LIGHT POLE 1497 FT FROM DER, 799 FT LEFT OF CENTERLINE, 43 FT AGL/342 FT MSL.
NOTE: RWY 18R: VORTAC AND ROD ON POLE BEGINNING 3209 FT FROM DER, 1019 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/412 FT MSL. TREES 3231 FT FROM DER, 1038 FT RIGHT OF CENTERLINE, UP TO 87 FT AGL/406 FT MSL.
NOTE: RWY 27: TREES 4145 FT FROM DER, 1382 FT LEFT OF CENTERLINE, UP TO 112 FT AGL/361 FT MSL.
NOTE: RWY 36C" LIGHT POLE 1948 FT FROM DER, 928 FT RIGHT OF CENTERLINE, 77 FT AGL/336 FT MSL.

CONTROLLING OBSTACLES:

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



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DUCKZ	FOUR	DUCKZ4.DUCKZ	THREE	04/30/2015	17 AUG 2017

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

REFERENCE MAG VAR: KMEM 1W EPOCH YEAR: 2020.

DME/DME ASSESSMENT: SAT (RNP 2.0)

CHART: MEA/MOCA FROM WSTIN TO DUCKZ, 8800/1900.**PILOT NAVIGATION AREA:**

10 NM ARC CENTERED ON WSTIN (IF), CW

FROM: POINT A (BEARING 227 TO WSTIN)

TO: POINT B (BEARING 317 TO WSTIN)

MINIMUM ALTITUDE - 8100

CHART: TOP ALTITUDE: 5000

AIRPORTS SERVED:

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

COMMUNICATIONS:

ATIS, CLEARANCE DEL, GROUND CONTROL, TOWER, DEP CON

FIXES AND/OR NAVAIDS:

MUDHO, KOSLE, PRYMD, HIVUS

REMARKS:

CONTROLLING OBSTACLE FOR RUNWAY 36C IS NOT IN AVNIS DATABASE (SEE 2013-ASO-75-NRA).

ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY:

Flight Inspection Review Not Required - Processed IAW Flight Inspection Team (AJW-333) Memo, May 30, 2017

OFFICE SYMBOL:

DATE: *Digitally signed by*
ROBERT G HAMILTON
Jun 08, 2017

DEVELOPED BY:

THOMAS L. KIRKPATRICK

THOMAS L KIRKPATRICK II

Digitally signed by THOMAS L KIRKPATRICK II
Date: 2017.05.24 07:17:26 -05'00'

OFFICE SYMBOL:**DATE:**

AJV-5423

05/24/2017

APPROVED BY:

JULIE MORGAN

OFFICE SYMBOL:

DATE: *Digitally signed by*
ROBERT G HAMILTON
Jun 08, 2017

AJV-5420

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

QUALITY
8
CHECKED

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DP NAME						NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
DUCKZ						FOUR	DUCKZ4.DUCKZ	THREE	04/30/2015	17 AUG 2017
A4A	ALPA	AOPA	APA	HAI	NBAA					
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					

OTHER:
ATA, ZME, MEM APP CON, MEM ATCT, ARPT MGR

- CHANGES - REASONS:
CHANGES -
- ALL COURSES/TRACKS CHANGED 2 DEGREES WEST.
 - CHANGED RECOMMENDED NAVAID FROM MEM VORTAC TO MHZ VORTAC.

- REASONS -
- AIRPORT MAGVAR CHANGED FROM 1E/2000 TO 1W/2020.
 - AIRPORT MAGVAR AND NAVAID MAGVAR NEEDS TO BE THE SAME.



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

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
DUCKZ							FOUR	DUCKZ4.DUCKZ	THREE	04/30/2015	17 AUG 2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
RW09 (AER)	350331.04N/0895908.63W	N	-	-	-	-					
860 MSL		-	-	VA	091.95	-				CG 500 FT/NM TO 860	
		-	-	VM	091.95	-					
WSTIN	350125.43N/0904452.62W	Y	FB	DF	-	-					
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31					
RW18C (AER)	350316.54N/0895834.21W	N	-	-	-	-					
	345937.82N/0895829.62W	-	-	VI	179.01	3.64				CG 500 FT/NM TO 860	
CHETO	345630.01N/0900044.60W	Y	FB	CF	210.62	3.63				RECOMMENDED NAVAID: MHZ VORTAC	
MUDHO	345629.79N/0900625.60W	Y	FB	TF	269.98	4.67					
KOSLE	345726.66N/0901223.95W	Y	FB	TF	280.94	5.00					
WSTIN	350125.43N/0904452.62W	Y	FB	TF	278.62	26.98					
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31					
RW18L (AER)	350255.74N/0895822.63W	N	-	-	-	-					
	345934.38N/0895818.37W	-	-	VI	179.00	3.35				CG 500 FT/NM TO 860	
CHETO	345630.01N/0900044.60W	Y	FB	CF	213.15	3.66				RECOMMENDED NAVAID: MHZ VORTAC	
MUDHO	345629.79N/0900625.60W	Y	FB	TF	269.98	4.67					
KOSLE	345726.66N/0901223.95W	Y	FB	TF	280.94	5.00					
WSTIN	350125.43N/0904452.62W	Y	FB	TF	278.62	26.98					
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.34					



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<u>DP NAME</u>		<u>NUMBER</u>		<u>DP COMPUTER CODE</u>		<u>SUPERSEDED NUMBER</u>		<u>DATED</u>	<u>EFFECTIVE DATE</u>
DUCKZ		FOUR		DUCKZ4.DUCKZ		THREE		04/30/2015	17 AUG 2017
<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	-	-	-	-			
	345951.64N/0895910.79W	-	-	VI	178.99	3.10			CG 500 FT/NM TO 860
CHETO	345630.01N/0900044.60W	Y	FB	CF	200.96	3.59			RECOMMENDED NAVAID: MHZ VORTAC
MUDHO	345629.79N/0900625.60W	Y	FB	TF	269.98	4.67			
KOSLE	345726.66N/0901223.95W	Y	FB	TF	280.94	5.00			
WSTIN	350125.43N/0904452.62W	Y	FB	TF	278.62	26.98			
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31			
RW27 (AER)	350328.01N/0895721.08W	N	-	-	-	-			
860 MSL		-	-	VA	271.97	-			CG 500 FT/NM TO 860
		-	-	VM	271.97	-			
WSTIN	350125.43N/0904452.62W	Y	FB	DF	-	-			
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31			
RW36C (AER)	350126.58N/0895831.90W	N	-	-	-	-			
	350431.05N/0895835.78W	-	-	VI	359.01	3.07			CG 500 FT/NM TO 860
BEEAL	350837.23N/0900217.24W	Y	FB	CF	323.54	5.09			RECOMMENDED NAVAID: MHZ VORTAC
PRYMD	350848.18N/0900827.62W	Y	FB	TF	272.09	5.07			
HIVUS	350855.04N/0901749.27W	Y	FB	TF	270.90	7.68			
WSTIN	350125.43N/0904452.62W	Y	FB	TF	251.51	23.43			
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31			

QUALITY
8
CHECKED

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DUCKZ							FOUR	DUCKZ4.DUCKZ	THREE	04/30/2015	17 AUG 2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
RW36L (AER)	350125.98N/0895912.81W	N	-	-	-	-					
	350408.46N/0895916.30W	-	-	VI	358.99	2.70				CG 500 FT/NM TO 860	
BEEAL	350837.23N/0900217.24W	Y	FB	CF	331.06	5.11				RECOMMENDED NAVAID: MHZ VORTAC	
PRYMD	350848.18N/0900827.62W	Y	FB	TF	272.09	5.07					
HIVUS	350855.04N/0901749.27W	Y	FB	TF	270.90	7.68					
WSTIN	350125.43N/0904452.62W	Y	FB	TF	251.51	23.43					
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31					
RW36R (AER)	350126.74N/0895820.75W	N	-	-	-	-					
	350418.06N/0895824.38W	-	-	VI	359.00	2.85				CG 500 FT/NM TO 860	
BEEAL	350837.23N/0900217.24W	Y	FB	CF	323.58	5.35				RECOMMENDED NAVAID: MHZ VORTAC	
PRYMD	350848.18N/0900827.62W	Y	FB	TF	272.09	5.07					
HIVUS	350855.04N/0901749.27W	Y	FB	TF	270.90	7.68					
WSTIN	350125.43N/0904452.62W	Y	FB	TF	251.51	23.43					
DUCKZ	350127.16N/0904854.43W	Y	FB	TF	270.52	3.31					
DUCKZ	350127.16N/0904854.43W	Y	-	IF	-	-				DUCKZ4.HELAR	
HELAR	350128.23N/0905120.54W	Y	FB	TF	270.52	2.00					

