

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)**

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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SUPERSEDED NUMBER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>
FUNNL	THREE	FUNNL3.FUNNL	TWO	05/26/2016	07 DEC 2017

<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:

WILL ROGERS WORLD (KOKC)
 TAKEOFF RWY 13: CLIMB HEADING 131.06 TO 1800, THEN RIGHT TURN HEADING 176.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 17L/17R: CLIMB HEADING 175.96 TO 1800, THEN HEADING 176.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 18: CLIMB HEADING 175.97 TO 1800, THEN HEADING 176.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 31: CLIMB HEADING 311.07 TO 1800, THEN RIGHT TURN HEADING 011.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 35L/R: CLIMB HEADING 355.96 TO 1800, THEN RIGHT TURN HEADING 011.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 36: CLIMB HEADING 355.97 TO 1800, THEN RIGHT TURN HEADING 011.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 ...ON TRACK 080.20 TO FUNNL, THEN ON (TRANSITION). MAINTAIN 5000 OR AS ASSIGNED BY ATC. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

UNIVERSITY OF OKLAHOMA WESTHEIMER (KOUN)

TAKEOFF RWY 3: CLIMB HEADING 032.21 TO 1700, THEN LEFT TURN HEADING 356.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 18: CLIMB HEADING 175.66 TO 1700, THEN HEADING 176.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 21: CLIMB HEADING 212.22 TO 1700, THEN LEFT TURN HEADING 176.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 36: CLIMB HEADING 355.66 TO 1700, THEN HEADING 356.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...

WILEY POST (KPWA)

TAKEOFF RWY 13: CLIMB HEADING 130.95 TO 1800, THEN RIGHT TURN HEADING 201.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 17L: CLIMB HEADING 175.99 TO 1800, THEN RIGHT TURN HEADING 201.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 17R: CLIMB HEADING 176.00 TO 1800, THEN RIGHT TURN HEADING 201.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 31: CLIMB HEADING 310.95 TO 1800, THEN RIGHT TURN HEADING 011.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 35L: CLIMB HEADING 356.00 TO 1800, THEN HEADING 011.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 TAKEOFF RWY 35R: CLIMB HEADING 355.99 TO 1800, THEN RIGHT TURN HEADING 011.00 OR AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO VOWED. THENCE...
 ...ON TRACK 080.20 TO FUNNL, THEN ON (TRANSITION). MAINTAIN 3000 OR AS ASSIGNED BY ATC. EXPECT FILED ALTITUDE 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>
PHARA	FUNNL3.PHARA	FUNNL	PHARA	TRACK 080.25	37.82	10000	2500	

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED
 NOTE: DME/DME/IRU OR GPS REQUIRED
 NOTE: RNAV 1

TAKEOFF MINIMUMS:

WILL ROGERS WORLD (KOKC)
 RWY 13,17L/R, 18, 31, 35L/R, 36: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1800.

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RWY 3, 18, 21, 36: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1700.



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WILEY POST (KPWA)
RWY 13, 17L, 17R, 31, 35L, 35R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 2100.

TAKEOFF OBSTACLES NOTES:

WILL ROGERS WORLD (KOKC)
NOTE: RWY 35L, POST 48 FT FROM DER, 495 FT LEFT OF CENTERLINE, 8 FT AGL/1287 FT MSL.
NOTE: RWY 36, OBSTRUCTION LIGHT ON WINDSOCK 674 FT FROM DER, 152 FT LEFT OF CENTERLINE, 25 FT AGL/1295 FT MSL.

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NOTE: RWY 3, TOWER AND ELEVATORS BEGINNING 1451 FT FROM DER, 359 FT RIGHT OF CENTERLINE, UP TO 59 FT AGL/1236 FT MSL.
NOTE: RWY 18, TREE 97 FT FROM DER, 449 FT RIGHT OF CENTERLINE, 32 FT AGL/1208 FT MSL.
NOTE: RWY 21, TREE 162 FT FROM DER, 461 FT RIGHT OF CENTERLINE, 25 FT AGL/1201 FT MSL. TREES BEGINNING 874 FT FROM DER, 484 FT RIGHT OF CENTERLINE, UP TO 27 FT AGL/1208 FT MSL. TREES BEGINNING 1211 FT FROM DER, 463 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/1210 FT MSL. LIGHT POLE 1243 FT FROM DER, 745 FT RIGHT OF CENTERLINE, 32 FT AGL/1213 FT MSL.
NOTE: RWY 36, POLES BEGINNING 700 FT FROM DER, 518 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/1215 FT MSL.

WILEY POST (KPWA)

NOTE: RWY 13, HANGAR 467 FT FROM DER, 466 FT LEFT OF CENTERLINE, 19 FT AGL/1316 FT MSL. HANGAR 1349 FT FROM DER, 602 FT RIGHT OF CENTERLINE, 35 FT AGL/1334 FT MSL.
NOTE: RWY 17L, TREES BEGINNING 1292 FT FROM DER, 371 FT RIGHT OF CENTERLINE, UP TO 67 FT AGL/1348 FT MSL. TANK 4592 FT FROM DER, 1222 FT LEFT OF CENTERLINE, 148 FT AGL/1478 FT MSL. TANK 1.0 NM FROM DER, 1387 FT LEFT OF CENTERLINE, 144 FT AGL/1467 FT MSL.
NOTE: RWY 17R, WINDSOCK 344 FT FROM DER, 422 FT LEFT OF CENTERLINE, 20 FT AGL/1305 FT MSL.
NOTE: RWY 35L, TREES BEGINNING 143 FT FROM DER, 516 FT LEFT OF CENTERLINE, UP TO 50 FT AGL/1321 FT MSL. SPIRE 2441 FT FROM DER, 901 FT LEFT OF CENTERLINE, 86 FT AGL/1366 FT MSL.

CONTROLLING OBSTACLES:

WILEY POST (KPWA)
RWY 17L: 1467 FT MSL TANK 353027.00N/0973827.00W, 1478 FT MSL TANK 353043.00N/0973829.00W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART: MEA/MOCA FROM VOWED TO FUNNL 4200/2500.
REFERENCE MAG VAR: KOKC 4E EPOCH YR: 2020.
DME/DME ASSESSMENT: SAT (RNP 2.0).
ALL AIRPORTS - CHART: TOP ALTITUDE: ASSIGNED BY ATC.
PILOT NAVIGATION AREA.
7NM ARC CENTERED ON VOWED (IF), CW
FROM: POINT A (BEARING 035 DEGREES TO VOWED)
TO: POINT B (BEARING 125 DEGREES TO VOWED)
MINIMUM ALTITUDE - 4200.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
WILL ROGERS WORLD	OKLAHOMA CITY	OK
UNIVERSITY OF OKLAHOMA WESTHEIMER	NORMAN	OK
WILEY POST	OKLAHOMA CITY	OK



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COMMUNICATIONS:

ATIS: OKC, PWA. AWOS/ASOS: OUN. CLNC DEL: OKC. GND CON: OKC, PWA, OUN. TWR: OKC, PWA, OUN. DEP CON: OKC, PWA, OUN.

FIXES AND/OR NAVAIDS:

REMARKS:

ABBREVIATED AMENDMENT DOES NOT MEET PERIODIC REVIEW REQUIREMENTS.

FLIGHT INSPECTED BY: *Digitally signed by*
JOSEPH M GAINES **DONALD H LANIER**
Sep 25, 2017

OFFICE SYMBOL: FICO
DATE: 03/16/2016

DEVELOPED BY: *Digitally signed by*
LIAM DONAHUE **LIAM DONAHUE**
Jun 12, 2017

OFFICE SYMBOL: AJV_5431
DATE: 04/22/2017

APPROVED BY: *Digitally signed by*
PATRICK MULQUEEN **DONALD H LANIER**
Sep 25, 2017

OFFICE SYMBOL: AJV-5430
DATE:

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

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:

ZFW ARTCC, OKE CITY APP CON, OKC ATCT, PWA ATCT, OUN ATCT, AMGR: OKC, PWA, OUN.

CHANGES - REASONS:

- ADDED 1 DEGREE TO ALL KOKC AND TRANSITION COURSES AND HEADINGS - KOKC AIRPORT MAGVAR CHANGING FROM 5E (2010) TO 4E (2020).
- ADDED REMARK: ABBREVIATED AMENDMENT DOES NOT MEET PERIODIC REVIEW REQUIREMENTS - 8260.46F, APPENDIX D, PARAGRAPH 14.
- ADDED A4A TO COORDINATION BLOCK .- AIRPORT SERVED BY SCHEDULED AIR CARRIERS.
- CHANGED REFERENCE MAG VAR FROM 5E TO 4E IN ADDITIONAL FLIGHT DATA.- KOKC AIRPORT MAGVAR CHANGING FROM 5E (2010) TO 4E (2020).

09/20/17: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/04/17.

- ADDED 1 DEGREE TO KOUN AND KPWA VM HEADINGS IN DP ROUTE DESCRIPTION.



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FUNNL		THREE	FUNNL3.FUNNL	TWO	05/26/2016	07 DEC 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>
WILL ROGERS WORLD (KOKC)									
RW13 (AER)	352416.59N/0973657.27W	N	-	-	-	-			
1800 MSL		-	-	VA	135.06	-			CG 500 FT/NM TO 1800
		-	-	VM	180.00	-			RIGHT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW17L (AER)									
RW17L (AER)	352418.58N/0973520.21W	N	-	-	-	-			
1800 MSL		-	-	VA	179.96	-			CG 500 FT/NM TO 1800
		-	-	VM	180.00	-			
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW17R (AER)									
RW17R (AER)	352421.42N/0973620.62W	N	-	-	-	-			
1800 MSL		-	-	VA	179.96	-			CG 500 FT/NM TO 1800
		-	-	VN	180.00	-			
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW18 (AER)									
RW18 (AER)	352336.76N/0973627.82W	N	-	-	-	-			
1800 MSL		-	-	VA	179.97	-			CG 500 FT/NM TO 1800
		-	-	VM	180.00	-			
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			



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RW31 (AER)	352321.98N/0973550.73W	N	-	-	-	-			
1800 MSL		-	-	VA	315.07	-			CG 500 FT/NM TO 1800
		-	-	VM	015.00	-			RIGHT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	--	-			
RW35L (AER)	352244.49N/0973620.53W	N	-	-	-	-			
1800 MSL		-	-	VA	359.96	-			CG 500 FT/NM TO 1800
		-	-	VM	015.00	-			RIGHT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW35R (AER)	352241.63N/0973520.13W	N	-	-	-	-			
1800 MSL		-	-	VA	359.96	-			CG 500 FT/NM TO 1800
		-	-	VM	015.00	-			RIGHT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW36 (AER)	352306.31N/0973627.80W	N	-	-	-	-			
1800 MSL		-	-	VA	359.97	-			CG 500FT/NM TO 1800
		-	-	VM	015.00	-			RIGHT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
WILEY POST (KPWA)									



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RW13 (AER)	353206.36N/0973907.90W	N	-	-	-	-			
1800 MSL		-	-	VA	134.95	-			CG 500 FT/NM TO 2100
		-	-	VM	205.00	-			RIGHT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW17L (AER)	353239.61N/0973843.81W	N	-	-	-	-			
1800 MSL		-	-	VA	179.99	-			CG 500 FT/NM TO 2100
		-	-	VM	205.00	-			RIGHT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW17R (AER)	353235.86N/0973857.10W	N	-	-	-	-			
1800 MSL		-	-	VA	180.00	-			CG 500 FT/NM TO 2100
		-	-	VM	205.00	-			RIGHT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW31 (AER)	353136.92N/0973831.82W	N	-	-	-	-			
1800 MSL		-	-	VA	314.95	-			CG 500 FT/NM TO 2100
		-	-	VM	015.00	-			RIGHT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW35L (AER)	353146.40N/0973857.10W	N	-	-	-	-			



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1800 MSL		-	-	VA	360.00	-			CG 500 FT/NM TO 2100
		-	-	VM	015.00	-			
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW35R (AER)*	353131.93N/0973843.79W*	N	-	-	-	-			*DISPL THLD (355 FT)
1800 MSL		-	-	VA	359.99	-			CG 500 FT/NM TO 2100
		-	-	VM	015.00	-			RIGHT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
UNIVERSITY OF OKLAHOMA WESTHEIMER (KOUN)									
RW03 (AER)	351410.37N/0972832.88W	N	-	-	-	-			
1700 MSL		-	-	VA	036.21	-			CG 500 FT/NM TO 1700
		-	-	VM	360.00	-			LEFT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW18 (AER)	351523.18N/0972823.21W	N	-	-	-	-			
1700 MSL		-	-	VA	179.66	-			CG 500 FT/NM TO 1700
		-	-	VM	180.00	-			
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			



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RW21 (AER)	351448.26N/0972759.06W	N	-	-	-	-			
1700 MSL		-	-	VA	216.22	-			CG 500 FT/NM TO 1700
		-	-	VM	180.00	-			LEFT TURN
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
RW36 (AER)	351431.77N/0972822.84W	N	-	-	-	-			
1700 MSL		-	-	VA	359.66	-			CG 500FT/NM TO 1700
		-	-	VM	360.00	-			
VOWED	352348.76N/0965511.59W	Y	FB	DF	-	-			
VOWED	352348.76N/0965511.59W	Y	-	IF	-	-			
FUNNL	352412.93N/0965019.59W	Y	FB	TF	84.20	4.00			
FUNNL	352412.93N/0965019.59W	Y	-	IF	-	-			FUNNL3.PHARA
PHARA	352751.86N/0960415.50W	Y	FB	TF	084.25	37.82			

