

**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SUPERSEDED NUMBER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>EFFECTIVE DATE</u>
BROAK	ONE	BROAK1.BROAK	NONE		24MAY2018
<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	☐	☐	☒	☐	☒

DP ROUTE DESCRIPTION:

TAKEOFF RWY 7L: CLIMB HEADING 078.04 TO 1635, THEN DIRECT TO SPRKY, THEN LEFT TURN DIRECT BROAK. THENCE. . .
 TAKEOFF RWY 7R: CLIMB HEADING 078.03 TO 1635, THEN DIRECT TO SPRKY, THEN LEFT TURN DIRECT BROAK. THENCE. . .
 TAKEOFF RWY 8: CLIMB HEADING 078.06 TO 1635, THEN DIRECT TO SPRKY, THEN LEFT TURN DIRECT BROAK. THENCE. . .
 TAKEOFF RWY 25L: CLIMB HEADING 258.05 TO INTERCEPT COURSE 240.00 TO JUTAK, THEN ON TRACK 151.44 TO WETAL, THEN ON TRACK 123.29 TO RIICH, THEN ON TRACK 069.98 TO PYPPE, THEN ON TRACK 050.44 TO BARLL, THEN ON TRACK 057.29 TO BROAK. THENCE. . .
 TAKEOFF RWY 25R: CLIMB HEADING 258.06 TO INTERCEPT COURSE 240.00 TO JUTAK, THEN ON TRACK 151.44 TO WETAL, THEN ON TRACK 123.29 TO RIICH, THEN ON TRACK 069.98 TO PYPPE, THEN ON TRACK 050.44 TO BARLL, THEN ON TRACK 057.29 TO BROAK. THENCE. . .
 TAKEOFF RWY 26: CLIMB HEADING 258.08 TO 1635, THEN LEFT TURN DIRECT JUTAK, THEN ON TRACK 151.44 TO WETAL, THEN ON TRACK 123.29 TO RIICH, THEN ON TRACK 069.98 TO PYPPE, THEN ON TRACK 050.44 TO BARLL, THEN ON TRACK 057.29 TO BROAK. THENCE. . .
 . . .ON TRACK 059.42 TO FTHLS, THEN ON (TRANSITION). MAINTAIN 8000, EXPECT HIGHER ALTITUDE 3 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>
ALBUQUERQUE	BROAK1.ABQ	FTHLS	JNIPR	TRACK 059.87	54.60	FL180	13600	
		JNIPR	JSSUA	TRACK 060.44	68.27	FL180	12000	
		JSSUA	ABQ VORTAC	TRACK 043.92	71.12	FL180	11400	
JNIPR	BROAK1.JNIPR	FTHLS	JNIPR	TRACK 059.87	54.60	FL180	13600	
MAXXO	BROAK1.MAXXO	FTHLS	JNIPR	TRACK 059.87	54.60	FL180	13600	
		JNIPR	JSSUA	TRACK 060.44	68.27	FL180	12000	
		JSSUA	MAXXO	TRACK 077.12	65.32	FL180	11700	

PROCEDURAL DATA NOTES:

NOTE: RNAV 1.
 NOTE: TURBOJETS AND TURBOPROPS ONLY.
 NOTE: RADAR REQUIRED.
 NOTE: DME/DME/IRU OR GPS REQUIRED.
 NOTE: ABQ TRANSITION ATC ASSIGNED ONLY.
 NOTE: AIRCRAFT FILING OVER ACH, LBL, ONM, CNX, PNH, MMB, TCC, IRW AND TXO FILE BROAK DEPARTURE.
 NOTE: AIRCRAFT FILING OVER ABQ, CIM, FTI AND GCK FILE FORPE DEPARTURE.
 NOTE: AIRCRAFT FILING OVER DEN, RSK, ALS AND POINTS NORTH OF ALS FILE MRBIL DEPARTURE.
 NOTE: FOR NON-GPS EQUIPPED AIRCRAFT, PXR AND TFD DME'S MUST BE OPERATIONAL.

TAKEOFF MINIMUMS:

RWYS 7 L/R, 8: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1635.
 RWYS 25 L/R, 26: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1900.

QUALITY
3
CHECKED

**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>EFFECTIVE DATE</u>
BROAK	ONE	BROAK1.BROAK	NONE		24MAY2018

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

RWY 25L, 25R, 26: 2679 FT MSL, AAO 331952.02N/1120738.81W.

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

REFERENCE MAG VAR: KPHX 12E EPOCH YR: 2000.

DME DME ASSESSMENT: SAT (RNP 2.0)

CHART: TOP ALTITUDE: 8000.

CHART: MEA/MOCA FROM BROAK TO FTHLS MEA FL180/8900.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
PHOENIX SKY HARBOR INTL (KPHX)	PHOENIX	AZ

COMMUNICATIONS:

PHOENIX SKY HARBOR INTL: ATIS, CLNC DEL, GND CON, PHX ATCT, PHOENIX DEP CON

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

MOCAS FL180 AND ABOVE PUBLISHED PER ATC REQUEST.

FLIGHT INSPECTED BY:*Digitally signed by***ROBERT G HAMILTON**

Mar 27, 2018

OFFICE SYMBOL:

FICO

DATE:

03/16/2018

DEVELOPED BY:*Digitally signed by***DUSTIN DAVIDSON**

Mar 17, 2018

OFFICE SYMBOL:

AJV-5422

DATE:

01/03/2018

APPROVED BY:*Digitally signed by***ROBERT G HAMILTON**

Mar 27, 2018

OFFICE SYMBOL:

AJV-5420

DATE:**REQUIRED EFFECTIVE DATE:**

ROUTINE

COORDINATED WITH:

**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	EFFECTIVE DATE
BROAK						ONE	BROAK1.BROAK	NONE		24MAY2018
A4A	ALPA	AOPA	APA	HAI	NBAA					
☒	☒	☒	☒	☐	☒					

OTHER:

ZAB, PHOENIX DEP CON, KPHX ATCT, WFPT.

CHANGES - REASONS:

ATC REQUEST - REPLACES FTHLS SID.

02/22/18: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/03/18.

1. REMOVED ALL REFERENCES TO CHANDLER MUNI (KCHD), PHOENIX DEER VALLEY (KDVT), GLENDALE MUNI (KGEU), PHOENIX GOODYEAR (KGYR), PHOENIX-MESA GATEWAY (KIWA), AND SCOTTSDALE (KSDL) FROM SID. UPDATED FORMS NOW ONLY APPLY TO KPHX. SATELLITE AIRPORTS REMOVED.
2. REMOVED "KPHX" IDENTIFIER FROM PROCEDURAL NOTES. UPDATED FORMS NOW ONLY APPLY TO KPHX. SATELLITE AIRPORTS REMOVED.
3. ADDED "THEN ON TRACK 050.44 TO BARLL, THEN ON TRACK 057.29 TO BROAK. THENCE. . ." FOR RWYS 25L/25R/26 RUNWAY TRANSITIONS.

03/17/18: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/03/18.

1. CHANGED DP ROUTE DESCRIPTION FOR RWYS 7L/R AND 8 FROM "THEN RIGHT TURN DIRECT BROAK" TO "THEN LEFT TURN DIRECT BROAK".

QUALITY
3
CHECKED

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

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
BROAK							ONE	BROAK1.BROAK	NONE		24MAY2018
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)		ALTITUDE	SPEED		REMARKS
RW07L (AER)	332551.81N/1120137.56W	N	-	-	-	-					
1635 MSL	-	-	-	VA	090.04	-					CG 500 FT PER NM TO 1635
SPRKY	332609.01N/1115327.82W	Y	FO	DF	-	-					
BROAK	333149.83N/1111312.53W	Y	FB	DF	-	34.14					LEFT TURN
RW07R (AER)	332543.89N/1120137.57W	N	-	-	-	-					
1635 MSL	-	-	-	VA	090.03	-					CG 500 FT PER NM TO 1635
SPRKY	332609.01N/1115327.82W	Y	FO	DF	-	-					
BROAK	333149.83N/1111312.53W	Y	FB	DF	-	34.14					LEFT TURN
RW08 (AER)*	332627.09N/1120136.66W*	N	-	-	-	-					*DISPL THLD (898 FT)
1635 MSL	-	-	-	VA	090.06	-					CG 500 FT PER NM TO 1635
SPRKY	332609.01N/1115327.82W	Y	FO	DF	-	-					
BROAK	333149.83N/1111312.53W	Y	FB	DF	-	34.14					LEFT TURN
RW25L (AER)	332543.84N/1120005.54W	N	-	-	-	-					
-	332543.93N/1120323.32W	-	-	VI	270.05	2.76					CG 500 FT PER NM TO 1900
JUTAK	332332.28N/1121127.51W	Y	FB	CF	252.00	7.10					RECOMMENDED NAVAID: PXR VORTAC
WETAL	331729.26N/1120918.99W	Y	FB	TF	163.44	6.30					
RIICH	331425.92N/1120543.09W	Y	FB	TF	135.29	4.29					
PYPPE	331535.06N/1115555.66W	Y	FB	TF	081.98	8.29					
BARLL	332536.59N/1113256.43W	Y	FB	TF	062.44	21.70					

QUALITY
3

QUALITY
3
CHECKED

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

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
BROAK							ONE	BROAK1.BROAK	NONE		24MAY2018
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)		ALTITUDE	SPEED		REMARKS
BROAK	333149.83N/1111312.53W	Y	FB	TF	069.29	17.63					
RW25R (AER)	332551.73N/1115936.05W	N	-	-	-	-					
-	332551.84N/1120254.15W	-	-	VI	270.06	2.76					CG 500 FT PER NM TO 1900
JUTAK	332332.28N/1121127.51W	Y	FB	CF	252.00	7.53					RECOMMENDED NAVAID: PXR VORTAC
WETAL	331729.26N/1120918.99W	Y	FB	TF	163.44	6.30					
RIICH	331425.92N/1120543.09W	Y	FB	TF	135.29	4.29					
PYPPE	331535.06N/1115555.66W	Y	FB	TF	081.98	8.29					
BARLL	332536.59N/1113256.43W	Y	FB	TF	062.44	21.70					
BROAK	333149.83N/1111312.53W	Y	FB	TF	069.29	17.63					
RW26 (AER)	332626.96N/1115931.69W	N	-	-	-	-					
1635 MSL	-	-	-	VA	270.08	-					CG 500 FT PER NM TO 1900
JUTAK	332332.28N/1121127.51W	Y	FB	DF	-	-					LEFT TURN
WETAL	331729.26N/1120918.99W	Y	FB	TF	163.44	6.30					
RIICH	331425.92N/1120543.09W	Y	FB	TF	135.29	4.29					
PYPPE	331535.06N/1115555.66W	Y	FB	TF	081.98	8.29					
BARLL	332536.59N/1113256.43W	Y	FB	TF	062.44	21.70					
BROAK	333149.83N/1111312.53W	Y	FB	TF	069.29	17.63					
BROAK	333149.83N/1111312.53W	Y	-	IF	-	-					
FTHLS	334605.05N/1102148.84W	Y	FB	TF	071.42	45.20					

QUALITY

3

QUALITY
3
CHECKED

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

DP NAME							NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
BROAK							ONE	BROAK1.BROAK	NONE		24MAY2018
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS	
FTHLS	334605.05N/1102148.84W	Y	-	IF	-	-				BROAK1.ABQ	
JNIPR	340250.46N/1091922.25W	Y	FB	TF	071.87	54.60					
JSSUA	342303.42N/1080043.42W	Y	FB	TF	072.44	68.27					
ABQ VORTAC	350237.66N/1064858.72W	Y	FB	TF	055.92	71.12					
FTHLS	334605.05N/1102148.84W	Y	-	IF	-	-				BROAK1.JNIPR	
JNIPR	340250.46N/1091922.25W	Y	FB	TF	071.87	54.60					
FTHLS	334605.05N/1102148.84W	Y	-	IF	-	-				BROAK1.MAXXO	
JNIPR	340250.46N/1091922.25W	Y	FB	TF	071.87	54.60					
JSSUA	342303.42N/1080043.42W	Y	FB	TF	072.44	68.27					
MAXXO	342338.32N/1064147.78W	Y	FB	TF	089.12	65.32					

QUALITY
3
CHECKED