

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DP NAME						NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
BRAKK						FOUR	BRAKK4.BRAKK	THREE	07/21/2016	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 6:** CLIMB HEADING 063.81 TO 1120, THEN AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO BRAKK. THENCE...  
**TAKEOFF RWY 24:** CLIMB HEADING 243.83 TO 1120, THEN AS ASSIGNED BY ATC, EXPECT RADAR VECTORS TO BRAKK. THENCE...  
**TAKEOFF RWY 11:** CLIMB HEADING 123.17 TO 1120, THEN DIRECT LUUBE, CROSS LUUBE AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO BRAKK. THENCE...  
**TAKEOFF RWY 12L, 12R:** CLIMB HEADING 123.19 TO 1120, THEN DIRECT HEFNR, CROSS HEFNR AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO BRAKK. THENCE...  
**TAKEOFF RWY 29:** CLIMB HEADING 303.18 TO 1120, THEN DIRECT HAGEE, CROSS HAGEE AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO BRAKK. THENCE...  
**TAKEOFF RWY 30L:** CLIMB HEADING 303.20 TO 1120, THEN DIRECT PYUNG, CROSS PYUNG AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO BRAKK. THENCE...  
**TAKEOFF RWY 30R:** CLIMB HEADING 303.21 TO 1120, THEN DIRECT PYUNG, CROSS PYUNG AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO BRAKK. THENCE...

... (TRANSITION). MAINTAIN 5000, EXPECT FILED ALTITUDE 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
HALLSVILLE	BRAKK4.HLV	BRAKK	RMMOS	TRACK 282.32	8.88	11000	2500	
			HLV VORTAC	TRACK 282.10	37.11	FL180	2500	

PROCEDURAL DATA NOTES:

- NOTE:** RNAV 1.  
**NOTE:** DME/DME/IRU OR GPS REQUIRED.  
**NOTE:** RADAR REQUIRED.  
**NOTE:** FOR USE BY TURBOJET AIRCRAFT ONLY.  
**NOTE:** ACCELERATE TO 250 KIAS; IF UNABLE, ADVISE ATC.

TAKEOFF MINIMUMS:

**RWY 6, 24:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 1120 THEN MINIMUM CLIMB OF 280 FT PER NM TO 5000.  
**RWY 11:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO LUUBE.  
**RWY 12L, 12R:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO HEFNR.  
**RWY 29:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO HAGEE.  
**RWY 30L, 30R:** STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO PYUNG.

TAKEOFF OBSTACLES NOTES:

**NOTE: RWY 06:** RAILROAD 577 FT FROM DER, 621 FT LEFT OF CENTERLINE, 557 FT MSL. GENERAL UTILITY AND POLE BEGINNING 1037 FT FROM DER, 632 FT RIGHT OF CENTERLINE, UP TO 22 FT AGL/573 FT MSL. BUILDING 2478 FT FROM DER, 1008 FT RIGHT OF CENTERLINE, 60 FT AGL/598 FT MSL.  
**NOTE: RWY 11:** BUILDING 2347 FT FROM DER, 545 FT LEFT OF CENTERLINE, 67 FT AGL/616 FT MSL. TREE 2362 FT FROM DER, 690 FT RIGHT OF CENTERLINE, 619 FT MSL. TREE 2680 FT FROM DER, 690 FT RIGHT OF CENTERLINE, 632 FT MSL. TREE 2756 FT FROM DER, 781 FT RIGHT OF CENTERLINE, 641 FT MSL. TREE AND POLES BEGINNING 3013 FT FROM DER, 206 FT LEFT OF CENTERLINE, UP TO 68 FT AGL/650 FT MSL. TREE 3066 FT FROM DER, 704 FT RIGHT OF CENTERLINE, 658 FT MSL. SIGN, BUILDING, AND TREE BEGINNING 4349 FT FROM DER, 488 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/680 FT MSL. CONTROL TOWER 5016 FT FROM DER, 1524 FT LEFT OF CENTERLINE, 219 FT AGL/774 FT MSL. BUILDING 5293 FT FROM DER, 685 FT RIGHT OF CENTERLINE, 98 FT AGL/692 FT MSL. BUILDING 5517 FT FROM DER, 527 FT RIGHT OF CENTERLINE, 114 FT AGL/694 FT MSL.



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**NOTE: RWY 12L:** TREE 1330 FT FROM DER, 666 FT RIGHT OF CENTERLINE, 654 FT MSL.

**NOTE: RWY 12R:** TRAFFIC SIGNAL 1413 FT FROM DER, 702 FT RIGHT OF CENTERLINE, 636 FT MSL. TREE 1930 FT FROM DER, 372 FT LEFT OF CENTERLINE, 636 FT MSL. SIGN 2801 FT FROM DER, 870 FT RIGHT OF CENTERLINE, 96 FT AGL/672 FT MSL.

**NOTE: RWY 30L:** VEHICLES ON ROAD, NAVAID, AND ANTENNA ON BUILDING BEGINNING 283 FT FROM DER, ON CENTERLINE, UP TO 571 FT MSL. VEHICLES ON ROAD AND TRAFFIC SIGNAL BEGINNING 836 FT FROM DER, 217 FT RIGHT OF CENTERLINE, UP TO 580 FT MSL. VEHICLES ON ROAD 906 FT FROM DER, 600 FT LEFT OF CENTERLINE, 569 FT MSL. TERRAIN BEGINNING 1375 FT FROM DER, 672 FT RIGHT OF CENTERLINE, UP TO 592 FT MSL. POLE 1685 FT FROM DER, 640 FT LEFT OF CENTERLINE, 39 FT AGL/585 FT MSL. TREE AND POLE BEGINNING 2466 FT FROM DER, 604 FT RIGHT OF CENTERLINE, UP TO 648 FT MSL. TREE 3231 FT FROM DER, 791 FT RIGHT OF CENTERLINE, 654 FT MSL. TREE 3507 FT FROM DER, 818 FT LEFT OF CENTERLINE, 663 FT MSL. TREE 3666 FT FROM DER, 788 FT RIGHT OF CENTERLINE, 665 FT MSL. TREE AND POLE BEGINNING 4487 FT FROM DER, 614 FT RIGHT OF CENTERLINE, UP TO 684 FT MSL. TREE 5174 FT FROM DER, 404 FT LEFT OF CENTERLINE, 697 FT MSL.

**NOTE: RWY 30R:** ELECTRICAL SYSTEM 1376 FT FROM DER, 710 FT RIGHT OF CENTERLINE, 34 FT AGL/567 FT MSL. TOWER 1896 FT FROM DER, 899 FT LEFT OF CENTERLINE, 54 FT AGL/587 FT MSL. BUILDINGS BEGINNING 1963 FT FROM DER, 561 FT RIGHT OF CENTERLINE, UP TO 81 FT AGL/611 FT MSL. TREE 4051 FT FROM DER, 930 FT RIGHT OF CENTERLINE, 631 FT MSL. TREES BEGINNING 4188 FT FROM DER, 1204 FT RIGHT OF CENTERLINE, UP TO 657 FT MSL. TREE 4694 FT FROM DER, 520 FT RIGHT OF CENTERLINE, 658 FT MSL. TREE 4733 FT FROM DER, 1418 FT RIGHT OF CENTERLINE, 668 FT MSL. TREE 5095 FT FROM DER, 389 FT RIGHT OF CENTERLINE, 670 FT MSL. TREE 5755 FT FROM DER, 1093 FT RIGHT OF CENTERLINE, 687 FT MSL. TREE 1 NM FROM DER, 345 FT RIGHT OF CENTERLINE, 693 FT MSL. TREE 1.1 NM FROM DER, 1120 FT RIGHT OF CENTERLINE, 714 FT MSL.

CONTROLLING OBSTACLES:

LOST COMMUNICATIONS PROCEDURES:

**ADDITIONAL FLIGHT DATA:**  
REFERENCE MAG VAR: KSTL 1W, EPOCH YEAR: 2020  
DME/DME ASSESSMENT: SAT (RNP 2.0)  
**CHART:** TOP ALTITUDE: 5000

**PILOT NAVIGATION AREA:**  
7 NM ARC CENTERED ON BRAKK (IF), CW  
FROM: POINT A (BEARING 237 DEGREES TO BRAKK)  
TO: POINT B (BEARING 327 DEGREES TO BRAKK)  
MINIMUM ALTITUDE - 10000

AIRPORTS SERVED:	AIRPORT NAME	CITY	STATE
	ST LOUIS LAMBERT INTL	ST LOUIS	MO

**COMMUNICATIONS:**  
ATIS, CLNC DEL, GND CON, GND METER, DEP CON, TOWER

**FIXES AND/OR NAVAIDS:**  
DAFUS, TRAVS, SEKAY, LIISA



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BRAKK	FOUR	BRAKK4.BRAKK	THREE	07/21/2016	17 AUG 2017

**REMARKS:**  
1. ABBREVIATED AMENDMENT, DOES NOT SATISFY PERIODIC REVIEW REQUIREMENTS.  
2. BRAKK THREE WAS ALSO AN ABBREVIATED AMENDMENT. FLIGHT CHECK MAPS AND RNAV PRO EVALUATIONS FROM BRAKK TWO USED IN "S" AND "P" FILES.

**FLIGHT INSPECTED BY:**

PROCESSED IAW FLIGHT INSPECTION TEAM (AJW-333) MEMO, MAY 30, 2017,  
SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED.

*Digitally signed by*  
**JACOB POWERS**  
Jun 20, 2017

**OFFICE SYMBOL:**      **DATE:**

**DEVELOPED BY:**

PETER GUIMOND  
*Digitally signed by*  
**PETER R GUIMOND**  
Apr 10, 2017

**OFFICE SYMBOL:**      **DATE:**  
AJV-5422      04/10/2017

**APPROVED BY:**

JULIE MORGAN  
*Digitally signed by*  
**JACOB POWERS**  
Jun 20, 2017

**OFFICE SYMBOL:**      **DATE:**  
AJV-5420

**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:**

ZKC, STL APP CON, STL ATCT, AMGR

**CHANGES - REASONS:**

1. CHANGED AIRPORT NAME FROM LAMBERT-ST LOUIS INTL TO ST LOUIS LAMBERT INTL - CENTRAL FPT REQUEST.
2. INCREASED ALL MAGNETIC HEADINGS BY ONE DEGREE - KSTL MAGVAR AMENDED FROM 0E TO 1W.
3. AMENDED REFERENCE MAGVAR FROM 0E, EPOCH YEAR 2000 TO 1W, EPOCH YEAR 2020 IN ADDITIONAL FLIGHT DATA - MATCH PENDING AIRNAV MAGVAR ASSIGNMENT.
4. ADDED DAFUS, TRAVS, SEKAY, LIISA TO FIXES AND/OR NAVAIDS BLOCK - IN ACCORDANCE WITH FAAO 8260.46F, APPENDIX E, PARA 13.
5. AMENDED TAKEOFF OBSTACLE NOTES FOR RWY 6, 11, 12L, 1R, 30L, AND 30R - MATCH UPDATED AIRPORT FAA FORM 15A, AMDT 3.



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DEPARTURE (DATA RECORD)

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED	EFFECTIVE DATE
BRAKK		FOUR		BRAKK4.BRAKK		THREE		07/21/2016	17 AUG 2017
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW06 (AER)	384448.04N/0902252.43W	N	-	-	-	-			
1120 MSL		-	-	VA	062.81	-			CG 500 FT/NM TO 1120
		-	-	VM	062.81	-			CG 280 FT/NM TO 5000
BRAKK	385804.99N/0910944.80W	Y	FB	DF	-	-			
RW11 (AER)	384535.83N/0902435.55W	N	-	-	-	-			
1120 MSL		-	-	VA	122.17	-			CG 500 FT/NM TO LUUBE
LUUBE	384208.40N/0901735.03W	Y	FB	DF	-	-	AT/ABOVE 2500		
DAFUS	383808.82N/0901734.70W	Y	FB	TF	179.94	3.99			
TRAVS	383617.86N/0902122.28W	Y	FB	TF	238.16	3.50			
SEKAY	383716.62N/0902917.37W	Y	FB	TF	279.00	6.28			
LIISA	384102.84N/0903722.22W	Y	FB	TF	300.79	7.37			
BRAKK	385804.99N/0910944.80W	Y	FB	TF	304.10	30.49			
RW12L (AER)	384506.41N/0902158.66W	N	-	-	-	-			
1120 MSL		-	-	VA	122.19	-			CG 500 FT/NM TO HEFNR
HEFNR	384206.39N/0901624.55W	Y	FB	DF	-	-	AT/ABOVE 2500		
DAFUS	383808.82N/0901734.70W	Y	FB	TF	193.04	4.06			
TRAVS	383617.86N/0902122.28W	Y	FB	TF	238.16	3.50			
SEKAY	383716.62N/0902917.37W	Y	FB	TF	279.00	6.28			
LIISA	384102.84N/0903722.22W	Y	FB	TF	300.79	7.37			
BRAKK	385804.99N/0910944.80W	Y	FB	TF	304.10	30.49			



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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW12R (AER)*	384511.59N/0902239.98W*	N	-	-	-	-			*DISPL THLD (467)
1120 MSL		-	-	VA	122.19	-			CG 500 FT/NM TO HEFNR
HEFNR	384206.39N/0901624.55W	Y	FB	DF	-	-	AT/ABOVE 2500		
DAFUS	383808.82N/0901734.70W	Y	FB	TF	193.04	4.06			
TRAVS	383617.86N/0902122.28W	Y	FB	TF	238.16	3.50			
SEKAY	383716.62N/0902917.37W	Y	FB	TF	279.00	6.28			
LIISA	384102.84N/0903722.22W	Y	FB	TF	300.79	7.37			
BRAKK	385804.99N/0910944.80W	Y	FB	TF	304.10	30.49			
RW24 (AER)	384522.38N/0902127.02W	N	-	-	-	-			
1120 MSL		-	-	VA	242.83	-			CG 500 FT/NM TO 1120
		-	-	VM	242.83	-			CG 280 FT/NM TO 5000
BRAKK	385804.99N/0910944.80W	Y	FB	DF	-	-			
RW29 (AER)	384448.46N/0902259.39W	N	-	-	-	-			
1120 MSL		-	-	VA	302.18	-			CG 500 FT/NM TO HAGEE
HAGEE	384735.74N/0902840.90W	Y	FB	DF	-	-	AT/ABOVE 2500		
BRAKK	385804.99N/0910944.80W	Y	FB	TF	288.31	33.74			



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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW30L (AER)*	384417.08N/0902049.42W*	N	-	-	-	-			*DISPL THLD (201)
1120 MSL		-	-	VA	302.20	-			CG 500 FT/NM TO PYUNG
PYUNG	384718.73N/0902700.07W	Y	FB	DF	-	-	AT/ABOVE 2500		
BRAKK	385804.99N/0910944.80W	Y	FB	TF	288.09	35.07			
RW30R (AER)	384418.99N/0902022.51W	N	-	-	-	-			
1120 MSL		-	-	VA	302.21	-			CG 500 FT/NM TO PYUNG
PYUNG	384718.73N/0902700.07W	Y	FB	DF	-	-	AT/ABOVE 2500		
BRAKK	385804.99N/0910944.80W	Y	FB	TF	288.09	35.07			
BRAKK	385804.99N/0910944.80W	Y	-	IF	-	-			BRAKK4.HLV
RMMOS	385949.12N/0912054.72W	Y	FB	TF	281.32	8.88			
HLV VORTAC	390648.75N/0920741.64W	Y	FB	TF	281.10	37.11			

