

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> ST LOUIS LAMBERT INTL	<u>AIRPORT ID</u> KSTL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 6	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> ST LOUIS	<u>STATE</u> MO	
<u>AIRPORT ELEVATION</u> 618	<u>TDZE</u> 551	<u>SUPERSEDED</u> RNAV (GPS) RWY 6	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 08/17/2017	<u>MAG VAR</u> 1W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
FTZ VORTAC	IAF	AVITE		TF	FB	1.00	109.81	13.75	5000
AVITE	IF	IDUBY		TF	FB	1.00	063.62	7.76	3400
IDUBY		ZUDKA		TF	FB	1.00	063.71	3.15	2400
ZUDKA	FAF	RW06	MAP	TF	FO	0.30	063.74	5.65	
RW06	MAP	1018 MSL		CA			063.74		
1018 MSL		VELVT		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

LNAV/VNAV: DA  
LNAV: RW06

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 DIRECT VELVT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT AVITE

3. FAC: 063.74

FAF: ZUDKA

DIST FAF TO MAP: 5.65

DIST FAF TO THLD: 5.65

4. MIN ALT: AVITE 5000, IDUBY 3400, ZUDKA 2400

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

552 HAT: 1.57

GS ANT:

6. MIN GP INCPT: 2400

GP ALT AT FAF : ZUDKA 2400

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 50.0

8. MSA FROM: RW06 3000

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: WAAS VNAV NA.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON FTZ VORTAC AIRWAY RADIALS 082 CW 151.  
CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV/VNAV CAT E VISIBILITY TO 1 5/8 SM AND LNAV CATS C/D/E VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: MAXIMUM HOLDING AIRSPEED 230 KIAS.  
CHART VDP AT 1.37 NM TO RW06\*  
\*LNAV ONLY  
CHART FAS OBST: 784 BUILDING 384356N/0902355W.  
HOLD NE, LT, 241.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV/VNAV DA	1103	6000	552	1103	6000	552	1103	6000	552	1103	6000	552	1103	6000	552
LNAV MDA	1040	2400	489	1040	2400	489	1040	5000	489	1040	5000	489	1040	5000	489



**CHANGES - REASONS**

- 1. CHANGED MISSED APPROACH CLEARANCE LIMIT FROM ZUMAY LOM TO VELVT - ZUMAY LOM BEING DECOMMISSIONED
- 2. CHANGED FTZ VORTAC - AVITE COURSE FROM 109.82 TO 109.81 - CURRENT TARGETS EVALUATION BASED ON LOCATION OF NAVAID AND FIX
- 3. CHANGED LNAV/VNAV DA/HAT FROM 1100/549 TO 1103/552 - SAME CONTROLLING OBSTACLE; SLOPED CHANGED FROM 23.4:1 TO 23.64:1 DUE TO USING 5 YEAR TEMP DATA INSTEAD OF STANDARD -30C ISA DEVIATION
- 4. CHANGED FAS OBSTACLE IN ADDITIONAL FLIGHT DATA FROM 784 ANT ON OL BLDG TO 784 BLDG - SAME OBSTACLE, NEW IDENTIFIER IN OAS DATABASE
- 5. REMOVED 869 AAO FROM ADDITIONAL FLIGHT DATA - NO LONGER ANY 7:1 OBSTACLES IDENTIFIED
- 6. MOVED "DISTANCE TO THLD FROM 549 HAT: 1.57 NM" FROM ADDITIONAL FLIGHT DATA TO LINE 5 AND UPDATED HAT TO 552 - CURRENT DOCUMENTATION CRITERIA
- 7. CHANGED VDP FROM 1.38 NM TO RW06 TO 1.37 NM TO RW06 - ?
- 8. REMOVED "DME/DME RNP-0.3" NA FROM NOTES - NO LONGER REQUIRED PER CURRENT DOCUMENTATION CRITERIA
- 9. ADDED "RNP APCH" TO PBN REQUIREMENTS NOTE - CURRENT DOCUMENTATION CRITERIA
- 10. REMOVED DEGREES F FROM BARO-VNAV NA NOTE AND UPDATED LOWEST TEMP FROM -16 TO -18C - CURRENT DOCUMENTATION CRITERIA AND CURRENT 5 YEAR TEMP DATA
- 11. ADDED "20:1 IS CLEAR" ON LINE 7 - CURRENT DOCUMENTATION CRITERIA
- 12. CHANGED LAST RADIAL IN PROCEDURE NA NOTE FROM FTZ VORTAC FROM 150 TO 151 - CURRENT AIRWAY RADIAL OFF OF THE FTZ VORTAC
- 13. CHANGED LNAV/VNAV VISIBILITY ALL CATS FROM 1 3/8 SM TO RVR 6000 - 8260.3D TABLE 3-3-1
- 14. CHANGED LNAV VISIBILITY CAT A/B FROM RVR 4000 TO RVR 2400 - 8260.3D TABLE 3-3-1
- 15. CHANGED LNAV/VNAV CAT E VIS FROM 1 7/8 SM TO 1 5/8 SM AND LNAV CAT C/D/E TO 1 3/8 SM IN INOP ALS NOTE - 8260.3D TABLE 3-3-1
- 16. CHANGED TCH ON LINE 7 FROM 50.1 TO 50.0 - MATCH ILS TCH

**COORDINATED WITH:**

**A4A** ☒    **ALPA** ☒    **AOPA** ☒    **APA** ☒    **HAI** ☐    **NBAA** ☒    **OTHER:** ZKC, STL APP CON, STL ATCT, AMGR

**FLIGHT CHECKED BY**

**OFFICE**

**DATE**

**DEVELOPED BY**

KELLIE R. BARNES

*Digitally signed by*

**KELLIE R BARNES**

Dec 18, 2019

**OFFICE**

AJV-A423

**DATE**

11/06/2019

**APPROVED BY**

MARLON ROBINSON

**OFFICE**

AJV-A420

**DATE**

**TITLE**  
MANAGER



FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
ST LOUIS LAMBERT INTL	KSTL	RNAV (GPS) RWY 6	2	ST LOUIS	MO	618	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM  
FTZ VORTAC

TO  
AVITE

<u>RNP</u>	<u>DISTANCE</u> 13.75	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.AAO	383621.00N/0904506.00W		1073	164	98	4E	1000				AT2927	5000
2.TERRAIN	383621.00N/0904506.00W		873 (900)								AS1500	2400

COMPUTATIONS

ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM  
AVITE

TO  
IDUBY

<u>RNP</u>	<u>DISTANCE</u> 7.76	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	383515.00N/0904112.00W	1011	164	98	4E	500				AC98 AT1791	3400
4.TERRAIN	383515.00N/0904112.00W	811 (800)								AS1500	2300

COMPUTATIONS

ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM

IDUBY

TO

ZUDKA

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	3.15											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (29-002119)	384018.74N/0903216.70W		857	500	50	5D	500				AT1043	2400
6.TERRAIN	384033.00N/0903157.00W		686 (700)								AS1500	2200

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

ZUDKA

TO

RW06

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.65		DA	552								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.BUILDING (29-001229)	384356.00N/0902355.00W		784	20	10	1B		23.64:1			AC10	1103

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



FINAL: LNAV

FROM

ZUDKA

TO

RW06

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	5.65		RW06	489								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.BUILDING (29-001229)	384356.00N/0902355.00W		784	20	10	1B	250					1040

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

VELVT

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
					942							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
8.TOWER (29-001117)	384838.40N/0901738.52W		823	100	20	3C	1000					1900
9.TERRAIN	384600.00N/0901812.00W		652 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM

RW06

TO

VELVT

RNP	DISTANCE	PAT	MAP	HAT			HMAS 940					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
8.TOWER (29-001117)	384838.40N/0901738.52W		823	100	20	3C	1000					1900
9.TERRAIN	384600.00N/0901812.00W		652 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED

MSA

CENTER

RW06

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (29-001023)	382139.70N/0903254.60W	200	24.4	1949	500	50	5D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

100 FT VEGETATION PER FPT

NO CIRCLING OR TAAS DEVELOPED PER AIR TRAFFIC REQUEST.

INTERMEDIATE STEPDOWN PER ATC REQUEST.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZKC ARTCC, STL APP CON, STL TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KSTL	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KSTL	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

REDUNDANT WEATHER REPORTING ON AIRPORT, NO BACK UP ALTIMETER REQUIRED.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW06 - MALSR, HIRL, PAPI-4R	PIR-G	APPROACH, ROLL OUT
RW11 - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW12L - TDZ, ALSF-2, HIRL, REIL, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW12R - TDZ, MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW24 - MALS, HIRL, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW29 - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW30L - MALSR, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH, ROLL OUT
RW30R - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 550.9	<u>TCH</u> 50.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 50.7
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -18C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -18C	<u>APT ISA</u> +13.78C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2014-2018).  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 1431 HIGH TEMP 1671.





### "VISUAL PORTION OF FINAL" PENETRATIONS

## HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

### 5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

WAAS NA PER FLIGHT CHECK. VERTICAL GUIDANCE WAS LOST WHEN USING WAAS ON FINAL 3.6NM PRIOR TO THRESHOLD.



<u>AIRPORT</u> ST LOUIS LAMBERT INTL	<u>AIRPORT ID</u> KSTL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 6	<u>AMDT NO.</u> 2	<u>CITY</u> ST LOUIS	<u>STATE</u> MO	<u>AIRPORT ELEVATION</u> 618	<u>FACILITY</u> RNAV
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.45
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	062.74
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	700
DISTANCE FROM	THLD	TO 1500FT POINT	5.25
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	062.74
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	700

THRESHOLD  
COORDINATES  
(IF STR-IN)

384448.04N/0902252.43W

ARP COORDINATES

384455.31N/0902212.10W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 11 DISTANCE 1.99 NM

FAF  
COORDINATES

384212.83N/0902917.56W

FIX NAME  
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY  
16  
CHECKED

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Page 7 of 8

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PART E: PREPARED BY							
<u>NAME</u> KELLIE R. BARNES			<u>OFFICE</u> AJV-A423	<u>DATE</u> 11/06/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST		

QUALITY  
16  
CHECKED

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Page 8 of 8