

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR OR TACAN STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23

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> ROSECRANS MEMORIAL	<u>AIRPORT ID</u> KSTJ	<u>PROCEDURE NAME</u> VOR OR TACAN RWY 17	<u>ORIGINAL/AMENDMENT</u> 14B	<u>CITY</u> ST JOSEPH	<u>STATE</u> MO	
<u>AIRPORT ELEVATION</u> 827	<u>TDZE</u> 827	<u>SUPERSEDED</u> VOR OR TACAN RWY 17	<u>ORIGINAL/AMENDMENT</u> 14A	<u>DATED</u> 03/05/2015	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 1965
<u>FACILITY</u> STJ	<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>
UBELE/7.00 DME CW	IAF	BUCAV/7.00 DME	NOPT				7.00 DME ARC		2700
WITAG/7.00 DME CCW	IAF	BUCAV/7.00 DME	NOPT				7.00 DME ARC		2700
BUCAV/7.00 DME		STJ VORTAC					167.14	7.00	2700
STJ VORTAC	IF/IAF	FOSRO INT/6.01 DME					167.41	6.01	2300

MISSED APPROACH

MAP:

4.58 NM AFTER FOSRO INT/STJ 6.01 DME OR AT STJ 10.59 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2700 DIRECT STJ VORTAC AND HOLD.
(TACAN AIRCRAFT CLIMB TO 2300 THEN CLIMBING LEFT TURN TO 3100 DIRECT HANOT INT/STJ 24.00 DME AND HOLD NW, LT, 114.00 INBOUND, GPS REQUIRED).

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- 1. PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- 2.** HOLD N STJ VORTAC, RT, 167.41 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000*
- 3. FAC:** 167.41 **FAF:** FOSRO INT/6.01 DME **DIST FAF TO MAP:** 4.58 **DIST FAF TO THLD:** 4.58
- 4. MIN ALT:** STJ VORTAC 2700, FOSRO INT/6.01 DME 2300
- 8. MSA FROM:** STJ VORTAC 3000

EQUIPMENT REQUIREMENTS NOTES:

ADF OR DME REQUIRED.

NOTES:

CHART PROFILE NOTE: * COURSE REVERSAL NOT AUTHORIZED FOR CAT E AIRCRAFT.
CHART NOTE: MISSED APPROACH TO STJ VORTAC NOT AUTHORIZED FOR CAT E AIRCRAFT.
CHART SPEED ICON IN PLANVIEW AT HANOT: MAX HOLDING 265 KIAS.



ADDITIONAL FLIGHT DATA:

CHART: ASR/PAR.
CHART CIRCLING ICON.
FOSRO TO RW17: 2.92/56.
CHART STJ R-276 AT UBELE.
CHART STJ R-076 AT WITAG.
CHART VDP AT 8.66 DME
DISTANCE VDP TO THLD 1.93 NM
FAS OBST: 1250 AAO 395035N/0945559W.

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 900-2 3/4, CAT E 1000-3

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
S-17	1500	1	673	1500	1	673	1500	1 7/8	673	1500	1 7/8	673	1500	1 7/8	673
CIRCLING	1500	1	673	1500	1	673	1620	2 1/4	793	1640	2 3/4	813	1760	3	933

CHANGES - REASONS

1. INCORPORATED CHANGES FROM AMDT 14A - IAW FAAO 8260.19H, PARA 8-3-4C (2).
2. UPDATED MISSED APPROACH POINT FROM 4.58 MILES AFTER FOSRO OR AT STJ 10.59 DME TO 4.58 NM AFTER FOSRO INT/STJ 6.01 DME OR AT STJ 10.59 DME - IAW 8260.19H PARA 8-6-6 C (2).
3. UPDATED HOLD-IN-LIEU COURSE INBOUND FROM 167.00 TO 167.41 AND ADDED MAX ALTITUDE 6000 - ALIGNED HOLDING PATTERN WITH SUCCEEDING SEGMENT AND IAW 8260.19H PARA 8-6-7 B (2).
4. AMENDED MSA FROM TWO SECTORS TO ONE WITH A MINIMUM ALTITUDE OF 3000 - NEW OBSTACLE STUDY, ALTITUDE DIFFERENCE OF 300 FEET WAS NO LONGER ACHIEVED.
5. DELETED FROM NOTES SECTION ADF OR DME REQUIRED AND ADDED EQUIPMENT REQUIREMENTS NOTE ADF OR DME REQUIRED - IAW 8260.19H PARA 8-6-8.
6. CHANGED CHART PLANVIEW NOTE AT HANOT: MAXIMUM HOLDING AIRSPEED 265 KIAS TO CHART SPEED ICON IN PLANVIEW AT HANOT: MAX HOLDING 265 KIAS - IAW 8260.3D PARA 17-3-6 AND 8260.19H PARA 4-6-10 G.
7. ADDED CHART: ASR/PAR TO ADDITIONAL FLIGHT DATA FROM NOTES SECTION - IAW 8260.19H PARA 8-6-10 K.
8. ADDED TO ADDITIONAL FLIGHT DATA CHART CIRCLING ICON - IAW 8260.19H PARA 8-6-10 T. CONTROLLING OBSTACLES AND MINIMUMS MATCH RNAV (GPS) RWY 35, AMDT 2A.
9. UPDATED FAS OBSTACLE FROM 1090 TREE TO 1250 AAO - IAW 8260.19H PARA 8-6-10 C.
10. UPDATED VDP FROM CHART VDP AT STJ 9.15 DME, DISTANCE VDP TP THLD: 1.44 NM TO CHART VDP AT 8.66 DME, DISTANCE VDP TO THLD 1.93 NM - MDA CHANGED FROM 1340 TO 1500 AND RECALCULATED DISTANCE.
11. UPDATED MINIMUMS FROM S-17 MDA/HAT 1340/513 ALL CATS TO MDA/HAT 1500/673 ALL CATS, VISIBILITY CAT C FROM 1 1/2 TO 1 7/8, CAT D AND E VISIBILITY FROM 1 3/4 TO 1 7/8 SM - NEW CONTROLLING OBSTACLE AND IAW 8260.3D CHAPTER 3.
12. UPDATED CIRCLING MINIMUMS FROM CAT A/B MDA/HAA 1400/573 TO 1500/673, CAT C FROM MDA/HAA 1400/573 TO 1620/793, CAT D MDA/HAA FROM 1500/673 TO 1640/813. VISIBILITY CAT C FROM 1 1/2 TO 2 1/4, CAT D FROM 2 1/2 TO 2 3/4 - NEW CONTROLLING OBSTACLES AND NEW CIRCLING CRITERIA IAW 8260.3D CHAPTER 2.
13. UPDATED ALTERNATE MINIMUMS FROM # CAT D 800-2 1/2 TO CAT C 800-2 1/4, CAT D 900-2 3/4 - IAW 8260.19H PARA8-6-11 B (4).
14. UPDATED TACAN MISSED APPROACH FROM TACAN AIRCRAFT CLIMB TO 2300 THEN CLIMBING LEFT TURN TO 3100 DIRECT HANOT/STJ 24.00 DME AND HOLD NW, LT, 114.00 INBOUND TO TACAN AIRCRAFT CLIMB TO 2300 THEN CLIMBING LEFT TURN TO 3100 DIRECT HANOT INT/STJ 24.00 DME AND HOLD NW, LT, 114.00 INBOUND GPS REQUIRED - IAW 8260.19H, PARA 8-6-6 D.

PDF EDIT:
ADDED ATTENTION SYMBOL * AT END OF HOLD-LIEU IN LINE 2



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZKC, AIRPORT MANAGER, STJ APP CON, STJ ATCT

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY
FRANK JACKSON JR

Digitally signed by
FRANK JACKSON
Feb 05, 2019

OFFICE
AJV-A431

DATE
12/06/2018

APPROVED BY
PATRICK MULQUEEN

OFFICE
AJV-A43

DATE

TITLE
MANAGER



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

<u>AIRPORT</u> ROSECRANS MEMORIAL	<u>AIRPORT ID</u> KSTJ	<u>PROCEDURE NAME</u> VOR OR TACAN RWY 17	<u>AMDT NO.</u> 14B	<u>CITY</u> ST JOSEPH	<u>STATE</u> MO	<u>AIRPORT ELEVATION</u> 827	<u>FACILITY</u> STJ
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL: ARC

<u>FROM</u> UBELE/7.00 DME CW	<u>TO</u> BUCAV/7.00 DME
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<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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<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.TOWER (29-000444)	400057.00N/0950834.00W	1439	250	50	4D	1000					2500
2.TERRAIN	400203.00N/0950657.00W	1172 (1200)								AS1500	2700

COMPUTATIONS

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

INITIAL: ARC

<u>FROM</u> WITAG/7.00 DME CCW	<u>TO</u> BUCAV/7.00 DME
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<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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<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.TOWER (29-002003)	400404.94N/0945205.10W	1524	20	3	1A	1000					2600
4.TERRAIN	395803.00N/0945127.00W	1162 (1200)								AS1500	2700

COMPUTATIONS

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



INITIAL

FROM

BUCAV/7.00 DME

TO

STJ VORTAC

<u>RNP</u>	<u>DISTANCE</u> 7.00	<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.TOWER (29-002003)	400404.94N/0945205.10W		1524	20	3	1A	1000					2600
5.TERRAIN	395800.00N/0945148.00W		1172 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

STJ VORTAC (IF/IAF)

TO

FOSRO INT/6.01 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	6.01											
<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>
6.TOWER (29-002617)	395635.00N/0945659.00W		1403	50	20	2C	500				AT397	2300
7.TERRAIN	395730.00N/0945403.00W		1168 (1200)								AS1000	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL

FROM

FOSRO INT/6.01 DME

TO

4.58 NM AFTER FOSRO INT/STJ 6.01 DME OR AT STJ 10.59 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>						
	4.58		4.58 NM AFTER FOSRO INT/STJ 6.01 DME OR AT STJ 10.59 DME	673							
<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>
8.AAO	395035.40N/0945559.00W	1250	50	20	2C	250					1500

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

HOLD-IN-LIEU OF PT

FROM

ST JOSEPH VORTAC

TO

P-6

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-6	<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.TOWER (29-002003)	400404.94N/0945205.10W	1524	20	3	1A	1000					2600
5.TERRAIN	395800.00N/0945148.00W	1172 (1200)								AS1500	2700

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

* COURSE REVERSAL NOT AUTHORIZED FOR CAT E AIRCRAFT.



SEGMENT REMARKS:



CIRCLING

☒ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☒ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
12.TREE (29-048107)	394706.93N/0945623.27W	1.30	673	1095	20	3	1A	300		SI	1500
CATEGORY B											
13.TREE (29-030999)	394739.50N/0945218.26W	1.83	673	1119	20	10	1B	300		SI	1500
CATEGORY C											
14.TOWER (20-002316)	394601.92N/0945829.39W	2.88	793	1301	20	3	1A	300			1620
CATEGORY D											
15.AAO	394927.02N/0945126.64W	3.77	813	1339	50	20	2C	300			1640
CATEGORY E											
16.TOWER (29-000057)	394807.80N/0944849.90W	4.71	933	1401	250	125	4D	300		AC50	1760

CIRCLING REMARKS:

CAT E ACCURACY CODE DERIVED FROM RNAV (GPS) RWY 35, AMDT 2.

MSA

CENTER	RADIUS
STJ VORTAC	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (20-001840)	394235.00N/0950234.00W	192	16.0	1978	50	20	2C	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

JOINT USE AIRPORT. MILITARY (ANG) PRIMARY USER.



and/or

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

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION HEIGHT USED: 150 FT TREES.

CONTINGENCY ALTIMETER NOTE FOR KANSAS CITY INTL:
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE KANSAS CITY INTL ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET; INCREEASE S-17 CAT B VISIBILITY 1/4 SM, S-17 CATS C/D/E VISIBILITY 5/8 SM, CIRCLING CAT B VISIBILITY 1/4 SM, CIRCLING CAT C VISIBILITY 1/2 SM, AND CIRCLING CAT D VISIBILITY 1/4 SM.
VDP AND ALTERNATE MINIMUMS NA WHEN USING KANSAS CITY INTL ALTIMETER SETTING.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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	3.91
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.67
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	175.41
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1050
DISTANCE FROM	THLD	TO 1500FT POINT	10.59
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	8.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	175.41
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1168
THRESHOLD COORDINATES (IF STR-IN)	394704.47N/0945424.88W		
ARP COORDINATES	394619.00N/0945434.94W		
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 17 DISTANCE 0.77 NM		
FAF COORDINATES	395138.61N/0945453.36W		
FIX NAME COORDINATES			
REMARKS			



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
ROSECRANS MEMORIAL	KSTJ	VOR OR TACAN RWY 17	14B	ST JOSEPH	MO	827	STJ

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
FRANK JACKSON JR	AJV-A431	12/06/2018	AERONAUTICAL INFORMATION SPECIALIST

