

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
VOR 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 ID</u> KDEC	<u>PROCEDURE NAME</u> VOR RWY 36	<u>ORIGINAL/AMENDMENT</u> 17A	<u>CITY</u> DECATUR	<u>STATE</u> IL		
<u>AIRPORT ELEVATION</u> 682	<u>TDZE</u> 678	<u>SUPERSEDED</u> VOR RWY 36	<u>ORIGINAL/AMENDMENT</u> 17	<u>DATED</u> 01/03/2019	<u>MAG VAR</u> 3E	<u>EPOCH YEAR</u> 1965
<u>FACILITY</u> AXC	<u>COORDINATES OF FACILITIES</u> 394415.08N / 0885123.15W	<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>
AQUAS/AXC 16.44 DME	IAF	JABTU/AXC 9.80 DME	NOPT				007.24	6.64	2500
JABTU/AXC 9.80 DME	IF	AXC VORTAC					007.24	9.80	2500

**MISSED APPROACH**

**MAP:**

AXC VORTAC 5.42 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3100 ON AXC VORTAC R-348 TO MAROA INT/AXC 14.32 DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT L SIDE OF COURSE 168.34 OUTBOUND 2500 FT WITHIN 10 MILES OF AXC VORTAC (IAF)

2.

3. FAC: 348.34 FAF: AXC VORTAC DIST FAF TO MAP: 5.42 DIST FAF TO THLD: 5.42

4. MIN ALT: AXC VORTAC 2500

8. MSA FROM: AXC VORTAC 080-260 2400, 260-080 3100

**EQUIPMENT REQUIREMENTS NOTES:**

DME REQUIRED

**NOTES:**

CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 NOT AUTHORIZED.

CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON AXC VORTAC AIRWAY RADIALS 053 CW 276.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LINCOLN ALTIMETER SETTING AND INCREASE ALL MDA 80 FT, INCREASE S-36 CAT C/D AND CIRCLING CAT C/D VISIBILITY 1/4 SM.

CHART NOTE: VDP NA WHEN USING LINCOLN ALTIMETER SETTING.



ADDITIONAL FLIGHT DATA:  
AXC VORTAC TO RW36: 3.08/58  
HOLD N, RT, 168.00 INBOUND.  
FAS OBST: 909 AAO 394554N/0885221W.  
CHART VDP AT 4.08 DME  
DISTANCE VDP TO THLD 1.34 NM.  
CHART CIRCLING ICON.

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE, EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICES.

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-36	1160	1	482	1160	1	482	1160	1 3/8	482	1160	1 3/8	482			
CIRCLING	1160	1	478	1240	1	558	1360	2	678	1360	2 1/4	678			

CHANGES - REASONS  
1. ADDED “(IAF)” TO AXC VORTAC ON PROFILE LINE 1 - AXC USED AS IAF PER ATC REQUEST.

COORDINATED WITH:  
A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: CHAMPAIGN APP CON, DECATUR ATCT, AMGR

FLIGHT CHECKED BY  
PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY  
JASON KRETSCHMER (COLIN CAMPBELL)

APPROVED BY  
MARLON ROBINSON

Digitally signed by  
JASON KRETSCHMER  
Jul 15, 2021  
Digitally signed by  
JASON KRETSCHMER  
Jul 15, 2021

OFFICE	Digitally signed by	DATE
	JASON KRETSCHMER	
	Jul 15, 2021	
OFFICE		DATE
AJV-A421		04/21/2021
OFFICE		DATE
AJV-A420		

TITLE  
MANAGER



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

<u>AIRPORT ID</u> KDEC	<u>PROCEDURE NAME</u> VOR RWY 36	<u>AMDT NO.</u> 17A	<u>CITY</u> DECATUR	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 682	<u>FACILITY</u> AXC
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM  
AQUAS/AXC 16.44 DME

TO  
JABTU/AXC 9.80 DME

<u>RNP</u>	<u>DISTANCE</u> 6.64	<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	393433.00N/0885321.00W		945	250	50	4D	1000				AT555	2500
2.TERRAIN	393433.00N/0885321.00W		745 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE: PT

FROM  
10 NM

TO  
AXC VORTAC

<u>RNP</u>	<u>DISTANCE</u> 10.00	<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 (17-001919)	393538.00N/0885046.00W		1160	500	50	5D	500				AT840	2500
4.TERRAIN	393454.00N/0885312.00W		749 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:



INTERMEDIATE

FROM  
JABTU/AXC 9.80 DME

TO  
AXC VORTAC

RNP	DISTANCE 9.80	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TOWER (17-001919)	393538.00N/0885046.00W		1160	500	50	5D	500				AT840	2500
5.TERRAIN	393536.00N/0885351.00W		755 (800)								AS1500	2300

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

FROM  
AXC VORTAC

TO  
AXC VORTAC 5.42 DME

RNP	DISTANCE 5.42	PAT	MAP AXC VORTAC 5.42 DME	HAT 482			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
6.AAO	394554.00N/0885221.00W		909	50	20	2C	250					1160

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



PROCEDURE TURN

FROM  
AXC VORTAC

TO  
10 NM

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (17-002352)	393639.00N/0884132.00W		1213	500	50	5D	1000				AT287	2500
5.TERRAIN	393536.00N/0885351.00W		755 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH

FROM  
AXC VORTAC 5.42 DME

TO  
MAROA INT/AXC 14.32 DME

<u>RNP</u>	<u>DISTANCE</u>	<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>
							ASC				3100
8.TOWER (17-002815)	395656.00N/0885013.00W	2035	50	20	2C	1000					3100
9.TERRAIN	395815.00N/0885536.00W	696 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID

KDEC

PROCEDURE NAME

VOR RWY 36

AMDT NO.

17A

CITY

DECATUR

STATE

IL

AIRPORT ELEVATION

682

FACILITY

AXC

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											
10.TOWER (17-023467)	394839.52N/0885254.78W	1.30	478	822	20	3	1A	300		SI	1160
CATEGORY B											
11.CRANE (17-020387)	395206.68N/0885315.61W	1.83	558	939	50	20	2C	300			1240
CATEGORY C											
12.STACK (17-001002)	395100.00N/0885545.00W	2.88	678	1008	50	50	2D	300		AC50	1360
CATEGORY D											
12.STACK (17-001002)	395100.00N/0885545.00W	3.76	678	1008	50	50	2D	300		AC50	1360

CIRCLING REMARKS:

MSA

CENTER

AXC VORTAC

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
080-260	TOWER (17-002057)	391824.00N/0885558.00W	185	26.1	1307	500	50	5D	1000			2400
260-080	TOWER (17-000148)	394815.00N/0892740.00W	275	28.3	2049	100	50	3D	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
CMI APP CON, DEC TOWER, ZAU ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KDEC	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KDEC	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS-3	<u>LOCATION</u> KAAA	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KAAA	<u>DISTANCE</u> 29.06	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 80

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME  
KDEC 682, KAAA 594  
RA = 79.2

<u>PRIMARY NAVAID</u> AXC VORTAC	<u>MONITOR POINT</u> MOCC	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW30 - MIRL (PCL), PAPI-4L	NPI-F	
RW12 - MIRL (PCL)	NPI-G	
RW18 - MIRL (PCL), PAPI-4L	NPI-G	
RW36 - MIRL (PCL), REIL (PCL), VASI-4L	NPI-G	
RW24 - HIRL (PCL), VASI-4L	PIR-F	MIDPOINT, ROLL OUT
RW6 - MALSR (PCL), HIRL (PCL), TAXI WAY (PCL)	PIR-G	APPROACH, MIDPOINT

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 58.1
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<u>FINAL APPROACH COURSE AIMING</u>			
RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

<u>CRITICAL TEMPERATURES</u>			
<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>

CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	RWY 36
34:1	
745 TREE (17-036396) 394911.27N/0885215.00W (2.13)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or  
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.





<u>AIRPORT ID</u> KDEC	<u>PROCEDURE NAME</u> VOR RWY 36	<u>AMDT NO.</u> 17A	<u>CITY</u> DECATUR	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 682	<u>FACILITY</u> AXC
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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	2.75
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.27
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	351.34
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	709
DISTANCE FROM	THLD	TO 1500FT POINT	4.82
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.06
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	351.34
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	709

THRESHOLD  
COORDINATES  
(IF STR-IN)

394936.87N/0885226.70W

ARP COORDINATES

395004.43N/0885156.48W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 24 DISTANCE 0.84 NM

FAF  
COORDINATES

394415.08N/0885123.15W

FIX NAME  
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

QUALITY  
19  
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> JASON KRETSCHMER (COLIN CAMPBELL)	<u>OFFICE</u> AJV-A421	<u>DATE</u> 04/21/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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