

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</u> ENID WOODRING RGNL	<u>AIRPORT ID</u> KWDG	<u>PROCEDURE NAME</u> VOR RWY 17	<u>ORIGINAL/AMENDMENT</u> 13A	<u>CITY</u> ENID	<u>STATE</u> OK	
<u>AIRPORT ELEVATION</u> 1167	<u>TDZE</u> 1165	<u>SUPERSEDED</u> VOR RWY 17	<u>ORIGINAL/AMENDMENT</u> 13	<u>DATED</u> 07/02/2009	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 1980
<u>FACILITY</u> ODG	<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>
IFI VORTAC		ODG VOR/DME					008.06	35.64	3000
IRW VORTAC		ODG VOR/DME					344.89	61.44	3600
PER VORTAC		ODG VOR/DME					227.84	37.69	3000

MISSED APPROACH

MAP:

ODG VOR/DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 THEN LEFT TURN DIRECT ODG VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R **SIDE OF COURSE** 347.00 **OUTBOUND** 2900 **FT WITHIN** 10 **MILES OF** ODG VOR/DME (IAF)
2.
3. **FAC:** 167.00 **FAF:** **DIST FAF TO MAP:** **DIST FAF TO THLD:**
4. **MIN ALT:**
8. **MSA FROM:** ODG VOR/DME 090-270 3600, 270-090 3200

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART NOTE: CIRCLING RWY 13 NA AT NIGHT.



ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.

CHART A-562A

CHART VDP AT 2.52 DME

DISTANCE VDP TO THLD 1.82 NM

FAS OBST: 1499 AAO 362854N/0975034W.

FAC 231 FT L OF RWY C/L EXTENDED 3000 FT FROM THLD.

HOLD N, LT, 167.00 INBOUND

MINIMUMS:**TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT****ALTERNATE: NA** ☐ NA WHEN LOCAL WEATHER NOT AVAILABLE.; STANDARD CAT D 800-2 1/4

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	1800	1	635	1800	1	635	1800	1 3/4	635	1800	2	635			
CIRCLING	1800	1	633	1800	1	633	1820	1 3/4	653	1880	2 1/4	713			

CHANGES - REASONS

1. REMOVED ALL NOTES REFERENCING THE BACK-UP ALTIMETER SETTING - MOVED TO FORM 8260-9 FOR CONTINGENCY USE.
2. ADDED ADDITIONAL FLIGHT DATA NOTE: CHART CIRCLING ICON - INCORPORATED NEW CIRCLING DIMENSIONS INTO AMENDMENT.
3. DELETED CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA - BOTH THE 34:1 AND 20:1 SURFACES ARE CLEAR.
4. CHANGED CIRCLING CAT C MDA/HAA FROM 1800/633 TO 1820/653, AND CAT D MDA/HAA/VIS FROM 1800/633/2 TO 1880/713/2 1/4 - NEW CIRCLING DIMENSIONS AND CONTROLLING OBSTACLES WITH THE NEW SECTORS.
5. DELETED FEEDER ROUTE FROM ANY VORTAC - PART OF VOR MON PROGRAM AND NAVAID DECOMMISSIONING.
6. ADDED "CAT D 800-2 1/4" TO ALTERNATE MINIMUMS - HIGHER THAN STANDARD ALTERNATE MINIMA REQUIRED TO BE ADDED.
7. ADDED CHART NOTE "CIRCLING RWY 13 NA AT NIGHT - 20:1 PENETRATIONS TO RWY 13.

COORDINATED WITH:**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZKC ARTCC, VANCE APP CON, WOODRING TOWER, AMGR**FLIGHT CHECKED BY**PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED**OFFICE**

Digitally signed by

DATE**DAVID TEFFETELLER**

Jan 02, 2020

DEVELOPED BY

JAMES LAFFERTY

Digitally signed by

JAMES LAFFERTY

Nov 18, 2019

OFFICE

AJV-A433

DATE

11/05/2019

APPROVED BY

GEORGE DAVIS

Digitally signed by

DAVID TEFFETELLER

Jan 02, 2020

OFFICE

AJV-A430

DATE**TITLE**
MANAGERQUALITY
10
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FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
ENID WOODRING RGNL	KWDG	VOR RWY 17	13A	ENID	OK	1167	ODG

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM TO
IFI VORTAC ODG VOR/DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	35.64										
<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 (40-002228)	361439.00N/0975254.00W	1605	20	3	1A	1000				AT395	3000
2.TERRAIN	362112.00N/0975248.00W	1319 (1300)								AS1500	2800

COMPUTATIONS

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

FEEDER

FROM TO
IRW VORTAC ODG VOR/DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	61.44											
<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 (40-002311)	355850.00N/0974143.00W		2569	250	50	4D	1000					3600
4.TERRAIN	352300.00N/0974015.00W		1410 (1400)								AS1500	2900

COMPUTATIONS

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



FEEDER

FROM

PER VORTAC

TO

ODG VOR/DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	37.69											
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
5.TOWER (40-001572)	363541.00N/0972112.00W	1522	500	50	5D	1000				AT478	3000	
6.TERRAIN	362642.00N/0974827.00W	1234 (1200)								AS1500	2700	

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: PT

FROM

10 NM

TO

ODG VOR/DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	10.00		ODG VOR/DME	635								
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
7.AAO	362854.04N/0975033.87W	1499	50	20	2C	300					1800	

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



PROCEDURE TURN

FROM

ODG VOR/DME

TO

10 NM

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (40-000303)	363015.00N/0975432.00W		1827	250	50	4D	1000					2900
8.TERRAIN	362900.00N/0975527.00W		1352 (1400)								AS1500	2900

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH

FROM

ODG VOR/DME

TO

ODG VOR/DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1500					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
9.TOWER (40-002648)	362355.00N/0974242.00W		1478	20	3	1A	1000					2500
10.TERRAIN	362100.00N/0974118.00W		1228 (1200)								AS1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT

ENID WOODRING RGNL

AIRPORT ID

KWDG

PROCEDURE NAME

VOR RWY 17

AMDT NO.

13A

CITY

ENID

STATE

OK

AIRPORT ELEVATION

1167

FACILITY

ODG

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											
11.STACK (40-062598)	362240.15N/0974539.45W	1.31	633	1449	20	10	1B	300		SI	1800
CATEGORY B											
11.STACK (40-062598)	362240.15N/0974539.45W	1.85	633	1449	20	10	1B	300		SI	1800
CATEGORY C											
12.ELEVATOR (40-000358)	362506.72N/0974958.24W	2.91	653	1509	20	10	1B	300			1820
CATEGORY D											
13.ELEVATOR (40-000595)	362451.00N/0975128.00W	3.80	713	1525	500	50	5D	300		AC 50	1880

CIRCLING REMARKS:

MSA

CENTER

ODG VOR/DME

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
090-270	TOWER (40-002311)	355850.00N/0974143.00W	161	24.0	2569	250	50	4D	1000			3600
270-090	TOWER (40-002881)	363541.99N/0973438.93W	029	16.7	2110	500	50	5D	1000			3200

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZKC ARTCC, VANCE APP CON, WOODRING TOWER

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> KWDG	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KWDG	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KGOK	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KGOK	<u>DISTANCE</u> 36.43	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 98

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME KWDG 1167, KGOK 1069 RA = 97.2.

<u>PRIMARY NAVAID</u> ODG VOR/DME	<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>
RW13 - MIRL	BSC-G	
RW31 - MIRL	BSC-G	
RW17 - MIRL (PCL), REIL, PAPI-4L	PIR-G	
RW35 - MALSR (PCL), MIRL (PCL), PAPI-4L	PIR-G	

<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> 51.9
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input type="checkbox"/>	3000	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	611.271
ON CENTERLINE	<input type="checkbox"/>	231	FT L OF CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RWY 13
20:1	
1159 TERRAIN (40-060543) 362254.25N/0974720.51W (0.72)	

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.

100' VEGETATION HEIGHT USED PER FPT.

CONTINGENCY REMOTE ALTIMETER NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GUTHRIE ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET, INCREASE S-17 CAT C VISIBILITY 1/4 SM, AND CIRCLING CAT C VISIBILITY 1/2 SM.

CONTINGENCY REMOTE ALTIMETER NOTE: VDP NA WHEN USING GUTHRIE ALTIMETER SETTING.

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



<u>AIRPORT</u> ENID WOODRING RGNL	<u>AIRPORT ID</u> KWDG	<u>PROCEDURE NAME</u> VOR RWY 17	<u>AMDT NO.</u> 13A	<u>CITY</u> ENID	<u>STATE</u> OK	<u>AIRPORT ELEVATION</u> 1167	<u>FACILITY</u> ODG
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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	FACILITY	TO 1000FT POINT	7.00
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	4.80
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	175.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1300
DISTANCE FROM	THLD	TO 1500FT POINT	7.00
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	4.80
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	175.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1300

THRESHOLD
COORDINATES
(IF STR-IN)

362306.51N/0974727.88W

ARP COORDINATES

362233.40N/0974721.90W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 35 DISTANCE 0.77 NM

FAF
COORDINATES

FIX NAME
COORDINATES

REMARKS

THLD DISPLACED 611.271FT, ACTUAL COORDINATES: 362312.56N/0974727.87W.

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PART E: PREPARED BY							
<u>NAME</u> JAMES LAFFERTY	<u>OFFICE</u> AJV-A433			<u>DATE</u> 11/05/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST		

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