

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> KWDG	<u>PROCEDURE NAME</u> VOR RWY 17	<u>ORIGINAL/AMENDMENT</u> 13B	<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SUPERSEDED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> 13A	<u>DATED</u> 03/26/2020	<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>
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:
HOLD N, LT, 167.00 INBOUND.
CHART FAS OBST: 1649 WINDMILL (40-028595) 362734N/0974456W.
CHART A-562A.
CHART VDP AT 2.51 DME
DISTANCE VDP TO THLD 1.82 NM.
FAC 231 FT L OF RWY C/L EXTENDED 3000 FT FROM THLD.
CHART CIRCLING ICON.

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

CHANGES - REASONS
1. IFI VORTAC FEEDER ROUTE REMOVED - FPT REQUESTED.
2. CHANGED S-17 CAT D VISIBILITY FROM 2 TO 1 3/4 - TARGETS BUILD.
3. CHANGED FINAL APPROACH COURSE AIMING POINT FROM "FAC 231 FT L OF RWY C/L EXTENDED 3000 FT FROM THLD" TO FAC 245 FT L OF RWY C/L EXTENDED 3000 FT FROM THLD" - TARGETS BUILD.
4. CHANGED VDP LOCATION FROM 2.52 TO 2.51 - TARGETS BUILD.

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 (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY
STEVEN DOUGHERTY

APPROVED BY
JULIE MORGAN

Digitally signed by
JULIE A MORGAN
Jul 29, 2021

OFFICE

OFFICE
AJV-A411

OFFICE
AJV-A410

DATE *Digitally signed by*
JULIE A MORGAN
Aug 26, 2021

DATE
06/11/2021

DATE *Digitally signed by*
JULIE A MORGAN
Jul 29, 2021

TITLE
MANAGER



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

<u>AIRPORT ID</u> KWDG	<u>PROCEDURE NAME</u> VOR RWY 17	<u>AMDT NO.</u> 13B	<u>CITY</u> ENID	<u>STATE</u> OK	<u>AIRPORT ELEVATION</u> 1167	<u>FACILITY</u> ODG
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM IRW VORTAC TO ODG VOR/DME

<u>RNP</u>	<u>DISTANCE</u> 61.44	<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 (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

SEGMENT REMARKS:

FEEDER

FROM PER VORTAC TO ODG VOR/DME

<u>RNP</u>	<u>DISTANCE</u> 37.69	<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>
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

<u>RNP</u>	<u>DISTANCE</u> 10.00	<u>PAT</u>	<u>MAP</u> ODG VOR/DME	<u>HAT</u> 635			<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>
7.WINDMILL (40-028595)	362734.39N/0974456.41W		1649	50	20	2C	300				SA-154	1800

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
ODG VOR/DME

TO
10 NM

<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>
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
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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.WINDMILL (40-028500)	362607.91N/0974110.72W		1613	500	50	5D	1000					2700
10.TERRAIN	361933.00N/0975421.00W		1286 (1300)								AS1500	2800

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

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		AC50	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:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZKC ARTCC, VANCE APP CON, WOODRING TOWER

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3PT	KWDG	24	KWDG	0	Y	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>
ASOS	KGOK	24	KGOK	36.43	Y	98

WX REMARKS:

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

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
ODG VOR/DME	MOCC	24	1

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW13 - MIRL (PCL)	BSC-G	
RW31 - MIRL (PCL)	BSC-G	
RW17 - MIRL (PCL), REIL (PCL), 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>	<u>TCH</u>
					3.00	51.9

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input type="checkbox"/>	3000	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	611
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

PENETRATIONS REMARKS:

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/D VISIBILITY 1/4 SM, AND CIRCLING CAT C/D VISIBILITY 1/2 SM.

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



<u>AIRPORT ID</u> KWDG	<u>PROCEDURE NAME</u> VOR RWY 17	<u>AMDT NO.</u> 13B	<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

NO ADDITIONAL AIRSPACE REQUIRED
THLD DISPLACED 611FT, ACTUAL COORDINATES: 362312.56N/0974727.87W.

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> STEVEN DOUGHERTY	<u>OFFICE</u> AJV-A411	<u>DATE</u> 06/11/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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