

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> RICK HUSBAND AMARILLO INTL	<u>AIRPORT ID</u> KAMA	<u>PROCEDURE NAME</u> VOR RWY 31	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> AMARILLO	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 3607	<u>TDZE</u> 3601	<u>SUPERSEDED</u> VOR/DME RWY 31	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 04/20/2000	<u>MAG VAR</u> 8E
<u>EPOCH YEAR</u> 2000	<u>FACILITY</u> PNH	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
JILPY/11.00 DME CCW	IAF	STYES/PNH 11.00 DME	NOPT				11.00 DME ARC		5000
FASOG/PNH 11.00 DME CW	IAF	STYES/PNH 11.00 DME	NOPT				11.00 DME ARC		5000
STYES/PNH 11.00 DME	IF	CRASS/PNH 6.00 DME					313.28	5.00	5000

MISSED APPROACH

MAP:
4.39 NM AFTER CRASS/PNH 6.00 DME OR AT PNH 1.61 DME

MISSED APPROACH INSTRUCTIONS:
CLIMBING LEFT TURN TO 5300 ON PNH VORTAC R-176 TO JILPY/11.00 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT STYES
3. FAC: 313.28 FAF: CRASS/PNH 6.00 DME DIST FAF TO MAP: DIST FAF TO THLD: 4.39
4. MIN ALT: STYES/PNH 11.00 DME 5000, CRASS/PNH 6.00 DME 5000
8. MSA FROM: PNH VORTAC 180-360 6100, 360-180 5100

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).



ADDITIONAL FLIGHT DATA:

CHART TRADEWIND AIRPORT
CHART: ASR.
CHART CIRCLING ICON.
CRASS TO RW31: 2.93/40.
CHART PNH R-176 AT JILPY.
CHART PNH R-081 AT FASOG.
CHART P-47
CHART VDP AT 2.63 DME
DISTANCE VDP TO THLD 1.02 NM
CHART FAS OBST: 3673 POLE 351219N/1013916W.
FAC CROSSES RWY C/L EXTENDED 2981 FT FROM THLD.
HOLD S, RT, 356.00 INBOUND

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

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

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-31	3960	1	359	3960	1	359	3960	1	359	3960	1 1/4	359	3960	1 1/4	359
CIRCLING	4080	1	473	4080	1	473	4240	1 3/4	633	4280	2 1/4	673	4460	3	853

CHANGES - REASONS

1. CHANGED VDP FROM 2.74 DME/1.13 NM TO 2.63 DME/1.02 NM - NEW IAPA EVALUATION.
2. RAISED CAT C CIRCLING FROM CMDA 4080/HAA 475 VIS 1 1/2 TO CMDA 4240/HAA 633 VIS 1 3/4 - APPLIED NEW CIRCLING CRITERIA; NEW CTL OBST/ UPDATED AIRPORT ELEVATION.
3. RAISED CAT D CIRCLING FROM CMDA 4240/HAA 635 VIS 2 TO CMDA 4280/HAA 673 VIS 2 1/4 - APPLIED NEW CIRCLING CRITERIA; NEW CTL OBST/ UPDATED AIRPORT ELEVATION.
4. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - IAW 8260.19H PARA 8-6-10.
5. CHANGED MISSED APPROACH INSTRUCTIONS FROM CLIMBING LEFT TURN TO 5100 VIA PNH VORTAC R-176 TO JILPY/11.00 DME AND HOLD TO CLIMBING LEFT TURN TO 5300 ON PNH VORTAC R-176 TO JILPY/11.00 DME AND HOLD - NEW HOLDING CTL OBST.
6. CHANGED PROCEDURE NAME FROM VOR/DME RWY 31 TO VOR RWY 31 AND ADDED DME REQUIRED TO EQUIPMENT REQUIRMENT NOTES - IAW 8260.3D PARA 1-6-1.
7. ADDED NAMED FIX FOR IF (STYES) - IAW 8260.19H PARA 2-10-5A.
8. ADDED NAMED FIX (FASOG) FOR IAF PNH R-081 CW ARC - IAW 8260.19H PARA 2-10-5A.
9. ADDED NAMED FIX (CRASS) FOR FAF - IAW 8260.19H PARA 2-10-5A
10. CHANGED AIRPORT ELEV FROM 3605 TO 3607 AND TDZE FROM 3598 TO 3601 - UPDATED AIRPORT DATA.
11. ADDED CHART NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT - DECENT ANGLE AND VGSI NOT COINCIDENT
12. CW ARC IF (FASOG) MOVED FROM R-078 TO R-081 ON TO V140 - TRANSITION FROM ENROUTE STRUCTRURE.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZAB, AMA ATCT, ARPT MGR, ST. AV. DIR

FLIGHT CHECKED BY	OFFICE	DATE			
DEVELOPED BY	OFFICE	DATE			
WARDELL HENNING (STEVEN SCHUTRUM)	AJV-A432	05/06/2019			
APPROVED BY	OFFICE	DATE			
LONNIE EVERHART	AJV-A430				
			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
RICK HUSBAND AMARILLO INTL	KAMA	VOR RWY 31	ORIG-B	AMARILLO	TX	3607	PNH

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL: ARC

FROM
JILPY/11.00 DME CCW

TO
STYES/PNH 11.00 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>
1.TOWER (48-008173)	350616.00N/1013930.00W		3963	500	50	5D	1000					5000
2.TERRAIN	350657.00N/1014142.00W		3606 (3600)								AS1000	4600

COMPUTATIONS

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

INITIAL: ARC

FROM
FASOG/PNH 11.00 DME CW

TO
STYES/PNH 11.00 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>
3.TOWER (48-001593)	351014.00N/1013226.00W	3908	500	50	5D	1000					5000
4.TERRAIN	350703.00N/1013457.00W	3550 (3600)								AS1000	4600

COMPUTATIONS

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



INTERMEDIATE

FROM

STYES/PNH 11.00 DME

TO

CRASS/PNH 6.00 DME

<u>RNP</u>	<u>DISTANCE</u> 5.00	<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>
5.AAO	350730.00N/1013757.00W		3760	250	50	4D	500				AT740	5000
6.TERRAIN	350730.00N/1013757.00W		3560 (3600)								AS1000	4600

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

CRASS/PNH 6.00 DME

TO

4.39 NM AFTER CRASS/PNH 6.00 DME OR AT PNH 1.61 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	4.39		4.39 NM AFTER CRASS/PNH 6.00 DME OR AT PNH 1.61 DME	359								
<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.POLE (48-027742)	351218.56N/1013915.53W		3673	20	3	1A	250				XP37	3960

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 SEGMENT: PREVIOUSLY PUBLISHED MDA RETAINED AT REQUEST OF FTW-FPO AND AIR TRAFFIC.
XP: MAINTAIN PUBLISHED MINIMUMS



MISSED APPROACH

FROM

4.39 NM AFTER CRASS/PNH 6.00 DME OR AT PNH 1.61 DME

TO

JILPY/PNH 11.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							3710				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				5300
8.TOWER (48-002388)	350720.00N/1014811.00W	3976	250	50	4D	1000					5000
9.TERRAIN	351412.00N/1014803.00W	3682 (3700)								AS1500	5200

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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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											
10.ELEVATOR (48-005288)	351216.92N/1014437.78W	1.36	473	3773	20	3	1A	300			4080
CATEGORY B											
10.ELEVATOR (48-005288)	351216.92N/1014437.78W	1.94	473	3773	20	3	1A	300			4080
CATEGORY C											
11.TOWER (48-002514)	351314.00N/1014623.00W	3.06	633	3882	250	50	4D	300		AC50	4240
CATEGORY D											
12.TOWER (48-000751)	351157.00N/1014845.00W	4.01	673	3914	20	50	1D	300		AC50	4280
CATEGORY E											
13.TOWER (48-005684)	351431.41N/1014844.73W	5.02	853	4148	20	3	1A	300			4460

CIRCLING REMARKS:



CENTER
PNH VORTAC

RADIUS
25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>QCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
180-360	TWR (44-2515)	352229.00N/1015300.00W	305	12.3	5049	500	50	5D	1000			6100
360-180	TWR (44-8235)	352535.00N/1013648.00W	012	12.2	4049	500	50	5D	1000			5100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
RICK HUSBAND AMARILLO INTL	KAMA	VOR RWY 31	ORIG-B	AMARILLO	TX	3607	PNH
and/or							
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS							
PART C: GENERAL REMARKS:							
PRECIPITOUS TERRAIN EVALUATION COMPLETED.							
CONTINGENCY ALTIMETER NOTE:							
NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BORGER ALTIMETER SETTING AND INCREASE ALL MDAS 160 FEET; INCREASE S-13 CAT C VISIBILTY 3/8 SM, CAT D/E VISIBILTIES 1/8 SM AND CIRCLING CAT C/D VISIBILITY 1/2 SM.							
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.							
<div> <div>QUALITY</div> <div>31</div> <div>CHECKED</div> </div>							
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<u>AIRPORT</u> RICK HUSBAND AMARILLO INTL	<u>AIRPORT ID</u> KAMA	<u>PROCEDURE NAME</u> VOR RWY 31	<u>AMDT NO.</u> ORIG-B	<u>CITY</u> AMARILLO	<u>STATE</u> TX	<u>AIRPORT ELEVATION</u> 3607	<u>FACILITY</u> PNH
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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	3.06
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.31
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	321.28
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	3586
DISTANCE FROM	FAF	TO 1500FT POINT	5.00
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	8.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	321.28
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	3560

THRESHOLD
COORDINATES
(IF STR-IN)

351249.33N/1014044.43W

ARP COORDINATES

351309.70N/1014221.30W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 4 DISTANCE 1.57 NM

FAF
COORDINATES

350924.82N/1013721.89W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

QUALITY
31
CHECKED

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PART E: PREPARED BY

<u>NAME</u> WARDELL HENNING (STEVEN SCHUTRUM)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 05/06/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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QUALITY
31
CHECKED

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