

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>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
RICK HUSBAND AMARILLO INTL	KAMA	VOR RWY 22	1A	AMARILLO	TX	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
3607	3606	VOR/DME RWY 22	1	09/28/2006	8E	2000
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
PNH			ROUTINE			

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>
PNH VORTAC		DEXBE/PNH 5.00 DME					055.00	5.00	5300
JILPY/11.00 DME CCW	IAF	MIAOW/PNH 11.00 DME	NOPT				11.00 DME ARC		5300
AFRIT/PNH 11.00 DME CW	IAF	MIAOW/PNH 11.00 DME	NOPT				11.00 DME ARC		6000
MIAOW/PNH 11.00 DME	IF	DEXBE/PNH 5.00 DME					235.00	6.00	5300

MISSED APPROACH

MAP:

GIBBR/PNH 0.50 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 R **SIDE OF COURSE** 055.00 **OUTBOUND** 5300 **FT WITHIN** 15 **MILES OF** DEXBE/PNH 5.00 DME (IAF)
- 2.
3. **FAF:** 235.00 **FAF:** DEXBE/PNH 5.00 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 5.17
4. **MIN ALT:** DEXBE/PNH 5.00 DME 5300
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}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE CAT C VISIBILITY TO 1 SM.



ADDITIONAL FLIGHT DATA:

CHART TRADEWIND AIRPORT
CHART: ASR.
CHART CIRCLING ICON.
DEXBE TO RW22: 3.02/40.
CHART PNH R-176 AT JILPY.
CHART PNH R-247 AT AFRIT.
CHART P-47
CHART FAS OBST: 3709 WATER_TOWER 351340N/1014050W.
FAC CROSSES RWY C/L EXTENDED 4083 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-22	3960	1/2	354	3960	1/2	354	3960	3/4	354	3960	1	354	3960	1	354
CIRCLING	4080	1	473	4080	1	473	4240	1 3/4	633	4280	2 1/4	673	4460	3	853

CHANGES - REASONS

1. INCREASED S-22 CAT C VIS FROM 1/2 SM TO 3/4 SM - NEW VISIBILITY TABLE APPLIED.
2. RAISED CAT C CIRCLING FROM CMDA 4080/HAA 473 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 633 VIS 2 TO CMDA 4280/HAA 673 VIS 2 1/4 - APPLIED NEW CIRCLING CRITERIA; NEW CTL OBST/ UPDATED AIRPORT ELEVATION.
4. ADDED CHART NOTE: CHART CIRCLING ICON - 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 22 TO VOR RWY 22 AND ADDED DME REQUIRED TO EQUIPMENT REQUIRMENT NOTES - IAW 8260.3D PARA 1-6-1.
7. ADDED NAMED FIX FOR IF (MIAOW) - IAW 8260.19H PARA 2-10-5A.
8. ADDED NAMED FIX (AFRIT) FOR IAF PNH R-247 CW 11 DME ARC - IAW 8260.19H PARA 2-10-5A.
9. ADDED NAMED FIX (GIBBR) FOR MAP - IAW 8260.19H PARA 2-10-5A
10. CHANGED AIRPORT ELEV FROM 3605 TO 3607 AND TDZE FROM 3603 TO 3606 - UPDATED AIRPORT DATA.
11. ADDED CHART NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT - DECENT ANGLE AND VGSI NOT COINCIDENT
12. CHANGED CHART FAS FROM 3697 TANKS 361340/1014060 TO 3709 WATER_TOWER 351340N/1014050W - NEW CNTL OBST.
13. CHANGED INOP CHART NOTE FROM: FOR INOPERATIVE MALSRs, INCREASE S-22 VISIBILITY CAT D AND E TO 1 1/4 TO FOR INOPERATIVE ALS, INCREASE CAT C VISIBILITY TO 1 SM - IAW NEW INOP TABLE.
14. CHANGED ALTERNATE MINS FROM STANDARD - CAT E 900-3 TO STANDARD - CAT D 800-2 1/4, CAT E 900-3 - INCREASED CAT C CMDA/NEW VISIBLTY TABLE APPLIED.
15. ADDED CHART: ASR TO ADDITIONAL FLIGHT DATA - IAW 8260.19H PARA 8-6-10(K).

08/21/2019: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON: 07/03/2019:

1. DELETED "MIAOW/PNH 11.00 DME 5300" FROM PROFILE LINE 4.



<u>AIRPORT</u> RICK HUSBAND AMARILLO INTL	<u>AIRPORT ID</u> KAMA	<u>PROCEDURE NAME</u> VOR RWY 22	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> AMARILLO	<u>STATE</u> TX
<u>COORDINATED WITH:</u> A4A <input checked="" type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input checked="" type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u> ZAB, AMA ATCT, ARPT MGR, ST.AV.DIR					
<u>FLIGHT CHECKED BY</u> ANOTHNY D VALLERA		<i>Digitally signed by</i> WARDELL HENNING Aug 23, 2019	<u>OFFICE</u> FICO	<u>DATE</u> 07/26/2019	
<u>DEVELOPED BY</u> WARDELL HENNING (STEVEN SCHUTRUM)		<i>Digitally signed by</i> WARDELL HENNING Aug 23, 2019	<u>OFFICE</u> AJV-A432	<u>DATE</u> 05/07/2019	
<u>APPROVED BY</u> LONNIE EVERHART	<i>Digitally signed by</i> WARDELL HENNING Aug 23, 2019		<u>OFFICE</u> AJV-A430	<u>DATE</u>	<u>TITLE</u> 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 22	1A	AMARILLO	TX	3607	PNH

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
PNH VORTAC

TO
DEXBE/PNH 5.00 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	5.00				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.AAO	351340.00N/1014050.00W	3813	250	50	4D	1000				PT487	5300
2.TERRAIN	351340.00N/1014050.00W	3613 (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
JILPY/11.00 DME CCW

TO
MIAOW/PNH 11.00 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TOWER (44-8173)	350616.00N/1013930.00W	3961	500	50	5D	500				DG839	5300
4.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

AFRIT/PNH 11.00 DME CW

TO

MIAOW/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>
5.TWR (44-2515)	352229.00N/1015300.00W		5049	500	50	5D	1000					6000
6.TERRAIN	351212.00N/1015942.00W		3787 (3800)								AS1000	4800

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: PT

FROM

15 NM

TO

DEXBE/PNH 5.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	15.00											
<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.AAO	352020.00N/1012424.00W		3949	250	50	4D	500				DG851	5300
8.TERRAIN	351500.00N/1013000.00W		3749 (3700)								AS1000	4700

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

MIAOW/PNH 11.00 DME

TO

DEXBE/PNH 5.00 DME

<u>RNP</u>	<u>DISTANCE</u> 6.00	<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>
9.AAO	351650.00N/1013257.00W		3949	250	50	4D	500				DG851	5300
8.TERRAIN	351500.00N/1013000.00W		3749 (3700)								AS1000	4700

<u>COMPUTATIONS</u>												
<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>	

SEGMENT REMARKS:

FINAL

FROM

DEXBE/PNH 5.00 DME

TO

GIBBR/PNH 0.50 DME

<u>RNP</u>	<u>DISTANCE</u> 4.50	<u>PAT</u>	<u>MAP</u> GIBBR/PNH 0.50 DME	<u>HAT</u> 354			<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>
10.WATER_TOWER (48-111790)	351340.12N/1014049.97W		3709	20	3	1A	250					3960

<u>COMPUTATIONS</u>												
<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>	

SEGMENT REMARKS:



CIRCLING

X

ALL CATS

X

CAT A

X

CAT B

X

CAT C

X

CAT D

X

CAT E

NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
15.ELEVATOR (48-005288)	351216.92N/1014437.78W	1.36	473	3773	20	3	1A	300			4080
CATEGORY B											
15.ELEVATOR (48-005288)	351216.92N/1014437.78W	1.94	473	3773	20	3	1A	300			4080
CATEGORY C											
16.TOWER (48-002514)	351314.00N/1014623.00W	3.06	633	3882	250	50	4D	300		AC50	4240
CATEGORY D											
17.TOWER (48-000751)	351157.00N/1014845.00W	4.01	673	3914	20	50	1D	300		AC50	4280
CATEGORY E											
18.TOWER (48-005684)	351431.41N/1014844.73W	5.02	853	4148	20	3	1A	300			4460

CIRCLING REMARKS:

MSA

CENTER	RADIUS
PNH VORTAC	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
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:



<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>
RICK HUSBAND AMARILLO INTL	KAMA	VOR RWY 22	1A	AMARILLO	TX	3607	PNH

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	3.79
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.37
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	243.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	3600
DISTANCE FROM	FAF	TO 1500FT POINT	4.40
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	7.54
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	243.00
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	3749

THRESHOLD
COORDINATES
(IF STR-IN)

351351.20N/1014200.72W

ARP COORDINATES

351309.70N/1014221.30W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 4 DISTANCE 1.57 NM

FAF
COORDINATES

351622.55N/1013630.02W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

QUALITY
18
CHECKED

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<u>AIRPORT</u> RICK HUSBAND AMARILLO INTL	<u>AIRPORT ID</u> KAMA	<u>PROCEDURE NAME</u> VOR RWY 22	<u>AMDT NO.</u> 1A	<u>CITY</u> AMARILLO	<u>STATE</u> TX	<u>AIRPORT ELEVATION</u> 3607	<u>FACILITY</u> PNH
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PART E: PREPARED BY

<u>NAME</u> WARDELL HENNING (STEVEN SCHUTRUM)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 05/07/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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QUALITY
18
CHECKED

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