US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
TOKRE (IF/IAF)	DILBE (FB)	044.56 / 7.24	4500
DILBE (FAF)	RW04 (MAP) (FO)	044.62 / 5.04	
RW04 (MAP)	3051 MSL	44.62	
3051 MSL	AYUPA (FO)		4700

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW04

CLIMB TO 4700 DIRECT AYUPA AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SW TOKRE, RT, 044.56 INBOUND, 5000 FT. IN LIEU OF PT (IAF)
3. FAC: 044.62 FAF: DILBE DIST FAF TO MAP: 5.04 THLD: 5.04
4. MIN. ALT: TOKRE 5000, DILBE 4500
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 4500 GS ALT AT: DILBE 4500 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR
8. MSA FROM:

ADDITIONAL FLIGHT DATA:
HOLD NE, RT, 224.76 INBOUND.
CHART FAS OBST: 3050 TOWER 315349N/1021550W
CHART: ASR
DISTANCE TO THLD FROM 200 HATH: 0.49 NM.
CHART VDP AT 1.46 MILES TO RW04*
*LNAV ONLY.
WAAS CHANNEL # 90529
REFERENCE PATH ID: W04A
LTP HAE: 844.7 M

MAG VAR: 9E EPOCH YEAR: 1985

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A STANDARD

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	3051	3/4	200	3051	3/4	200	3051	3/4	200	3051	3/4	200			
LNAV/VNAV DA	3196	1 1/8	345	3196	1 1/8	345	3196	1 1/8	345	3196	1 1/8	345			
LNAV MDA	3360	1	509	3360	1	509	3360	1 3/8	509	3360	1 3/8	509			
CIRCLING	3440	1	568	3440	1	568	3440	1 1/2	568	3520	2	648			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11C (13F) OR ABOVE 25C (77F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART NOTE: CIRCLING TO RWY 16L NA AT NIGHT

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2872 THRE: 2851 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
MIDLAND, TX	MIDLAND INTL	RNAV	RNAV (GPS) RWY 4, AMDT 1	AMDT: ORIG
				DATED 09/04/2003

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[X] YES [ ] NO		**ROUTINE**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[X]	[X]	[X]	[X] **ZFW, FPT, MAFF APP CON, AMGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **JILL OLSON (BRIAN BERUBEE)**	FIFO **AJV-353**	DATE: **03/19/2012**
APPROVED BY		
NAME: **LARRY H STROUT** **MANAGER**	FIFO **AJV-353**	DATE:

CHANGES:

1. ADDED LPV AND VNAV MINIMA
2. CHANGED DIST FAF TO MAP FROM 4.94 TO 5.04
3. CHANGED INTERMEDIATE COURSE/DIST FROM 044.57/6.00 TO 044.56/7.24
4. DELETED TENLE WP AND REPLACED WITH TOKRE WP
5. DELETED COBAC AND CEPTA INITIALS
6. CHANGED HIL INBOUND COURSE FROM 044.57 TO 044.56
7. CHANGED TDZE TO THRE
8. UPDATED PROCEDURE RESTRICTION NOTES
9. UPDATED EQUIPMENT NOTE
10. CHANGED MAHWP FROM JAPIG TO AYUPA
11. ADDED ALTERNATE MINIMUMS
12. LOWERED TCH FROM 55 TO 45
13. ADDED NOTE, "VISIBILITY REDUCTION BY HELICOPTERS NA"

REASONS:

1. FPT REQUEST
2. PFAF LOCATION
3. LEG LENGTH REQUIREMENTS
4/5/8/9/10. CRITERIA
6. CONSISTENT WITH INTERMEDIATE SEGMENT CHANGES
7. SURVEY
11. AIRPORT QUALIFIES
12. SHORTEN GPI DISTANCE
13. 34:1 VISUAL SURFACE PENETRATED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TAA

	FROM	TO	ALT
1.	315/30 CW 135/30 (NOPT)	315/12 CW 135/12	5500
2.	315/12 CW 135/12	TOKRE (IF/IAF) (FB)	5000
3.	135/30 CW 315/30	TOKRE (IF/IAF) (FO)	5100

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2872 THRE: 2851	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: MIDLAND INTL	RNAV	RNAV (GPS) RWY 4, AMDT 1	AMDT: ORIG
				DATED: 09/04/2003

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

Bearings, headings, courses, 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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMAF
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	315554.1295N
LTP/FTP LONGITUDE	1021213.5030W
LTP/FTP ELLIPSOIDAL HEIGHT	+08447
FPAP LATITUDE	315647.0300N
FPAP LONGITUDE	1021049.1500W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1344
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	7F27D81A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+08691
FPAP ORTHOMETRIC HEIGHT	+08691

CITY AND STATE	ELEVATION: 2872 THRE: 2851	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: MIDLAND INTL	RNAV	RNAV (GPS) RWY 4, AMDT 1	AMDT: ORIG
				DATED: 09/04/2003

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP       123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAEAENRT   AYUPA K40    W     N32033706W101595377                      E0067     NAR           AYUPA
         SUSAEAENRT   DILBE K40    W     N31525463W102165932                      E0069     NAR           DILBE
         SUSAEAENRT   TOKRE K40    W     N31483606W102235000                      E0069     NAR           TOKRE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KMAFK4AMAF     0     095YHN31563310W102120690E009002872         1800018000C    MNAR    MIDLAND INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KMAFK4FR04   ATOKRE 010TOKREK4EA0EE AR   HF                    04460050    + 05000     18000                A JS
         SUSAP KMAFK4FR04   R      010TOKREK4EA0E  I    IF                                + 05000     18000                A JS
         SUSAP KMAFK4FR04   R      020DILBEK4EA1E  F 051TF                    04460072    + 04500                          A JS
         SUSAP KMAFK4FR04   R      020DILBEK4EA2WALPV       ALNAV/VNAV ALNAV                                                 JS
         SUSAP KMAFK4FR04   R      030RW04 K4PG0GY M 031TF                    04460050      02896             -300         A JS
         SUSAP KMAFK4FR04   R      040         0  M     CA                    0446        + 03051                          A JS
         SUSAP KMAFK4FR04   R      050AYUPAK4EA0EY      DF                                + 04700                          A JS
         SUSAP KMAFK4FR04   R      060AYUPAK4EA0EE  R   HM                    22480050    + 04700                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY   123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KMAFK4GRW04    0046050447 N31555413W102121350+0100    +0844702851000045075R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP       123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KMAFK4PR04   RW04 001 0000W04A0N3155541295W10212135030+084470300N3156470300W102104915001067513440004 50F4003507F27D81A
         SUSAP KMAFK4PR04   RW04 002E      +08691+08691LPV       90529
```

CITY AND STATE	ELEVATION: 2872 THRE: 2851	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: MIDLAND INTL	RNAV	RNAV (GPS) RWY 4, AMDT 1	AMDT: ORIG
				DATED: 09/04/2003

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	TOKRE	TOKRE	010	IAF	HF	R	FO		044.6(053.6T)	005.0	AA 05000	
		TOKRE	010	FACF	IF		FB				AA 05000	
		DILBE	020	FAF	TF		FB	0.5	044.6(053.6T)	007.2	AA 04500	
		RW04	030	MAP	TF		FO	0.3	044.6(053.6T)	005.0	AT 02896	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		044.6(053.6T)		AA 03051	
	AYUPA	050		DF		FO				AA 04700	
	AYUPA	060		HM	R	FO		224.8(233.8T)	005.0	AA 04700	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AYUPA	N320337.06	W1015953.77	N3203.618	W10159.896
	DILBE	N315254.63	W1021659.32	N3152.911	W10216.989
	TOKRE	N314836.06	W1022350.00	N3148.601	W10223.833
	RW04	N315554.13	W1021213.50	N3155.902	W10212.225

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	02851	45

CITY AND STATE	ELEVATION: **2872**	**THRE: 2851**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: **MIDLAND INTL**		**RNAV**	**RNAV (GPS) RWY 4, AMDT 1**	AMDT: **ORIG**
					DATED: **09/04/2003**

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
STRAIGHT-IN AREA	315/30 CW 135/30	315/12 CW 135/12	1. TOWER (48-000653)	315917.00N/1025243.00W	4490 (3C)	1000		5500
			2. TERRAIN	320139.00N/1025015.00W	3393 (3400)		AS1500	4900
STRAIGHT-IN AREA	315/12 CW 135/12	TOKRE	3. TOWER (48-011753)	315019.38N/1023200.60W	3994 (5D)	1000		5000
			4. TERRAIN	315000.00N/1023730.00W	3180 (3200)		AS1500	4700
STRAIGHT-IN AREA	135/30 CW 315/30	TOKRE	5. TOWER (48-005355)	320551.00N/1021723.00W	4048 (1A)	1000		5100
			6. TERRAIN	321415.00N/1024545.00W	3291 (3300)		AS1500	4800
INTERMEDIATE	TOKRE (IF/IAF)	DILBE	7. TOWER (48-002721)	314953.00N/1022053.00W	3408 (3C)	500	AT592	4500
			8. TERRAIN	315126.00N/1022127.00W	2950 (3000)		AS1000	4000
FINAL: LPV	DILBE	RW04				ASC		3051/200
FINAL: LNAV/VNAV	DILBE	RW04	9. TANK (48-004320)	315614.00N/1021239.00W	3025 (1B)	22.43:1	AC10	3196/345
FINAL: LNAV	DILBE	RW04	10. TOWER (48-009995)	315349.00N/1021550.00W	3050 (2C)	250	XP60	3360
2. HOLD-IN-LIEU-OF-PT	TOKRE	P-6	11. TOWER (48-003393)	314540.00N/1023130.00W	3601 (5D)	1000	AT399	5000
			12. TERRAIN	314612.00N/1023306.00W	3111 (3100)		AS1500	4600
3. MISSED APPROACH — MAP:	DA / DA / RW04	AYUPA				ASC		4700
			13. TOWER (48-002518)	315803.00N/1020707.00W	3234 (5D)	1000		4300
ELEV:	2886/3035/3260		14. TERRAIN	315700.00N/1021203.00W	2868 (2900)		AS1000	3900
			15. DRILLING RIG	315830.43N/1021316.38W	3071 (4D)	300	AC50	3440
			15. DRILLING RIG	315830.43N/1021316.38W	3071 (4D)	300	AC50	3440
			16. DRILLING RIG	315839.59N/1021335.15W	3078 (4D)	300	AC50	3440
			17. DRILLING RIG	315812.53N/1021447.92W	3163 (4D)	300	AC50	3520

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL	
CATEGORY A	1.3 NM	350	568	
CATEGORY B	1.5 NM	450	568	
CATEGORY C	1.7 NM	450	568	
CATEGORY D	2.3 NM	550	648	
CATEGORY E	4.5 NM	550		

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE	ELEVATION: 2872 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MIDLAND, TX	MIDLAND INTL	RNAV	RNAV (GPS) RWY 4, AMDT 1	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZFW ARTCC MAF APP CON MAF TOWER	N W S / F A A / A / C — OTHER: ASOS	SOURCE: KMAF DISTANCE: 0 HOURS REMOTE OPERATION:
SATISFACTORY ON: X VHF X UHF HF	LOCATION: KMAF	ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALS 28 (PCL) MALSR 10 (PCL)
	X	HIRL 10, 28, 34L, 16R
	X	MIRL 16L, 22, 04, 34R
	X	REIL 34L
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4L 34L, 16R VASI-4L 10, 28
6. RUNWAY MARKINGS	BASIC	BSC-G 16L, 34R
	ALL WEATHER	PIR-G 10, 28, 34L, 16R
	INSTRUMENT	NPI-G 22, 04
7. RUNWAY VISUAL RANGE	APPROACH	10
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 2851.3
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 45.0
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD — FT. FROM THRESHOLD
	X	ON CENTERLINE — FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: JILL OLSON (BRIAN BERUBEE)	DATE: 03/19/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

SEE ATTACHED AIRSPACE LETTER.

40' VEGETATION APPLIED PER FPT

KMAF ASOS ON SVC A
REDUNDANT WEATHER REPORTING SOURCES ON APT

LPV SLOPE: 34:1
VNAV SLOPE: 22.43:1

AVERAGE COLD TEMPERATURE (-11C) BASED ON 5-YEAR HISTORY (2006-2010)

VGSI DATA: NONE

TERPS VOL 1, VISUAL PORTION OF FINAL PENETRATION
34:1
2941 ANT (KMAFL009) 315542.58N/1021247.25W (6.37)
RW16L
20:1
2875 TREE (KMAF0047) 315649.00N/1021150.07W (7.70)
2880 ROAD (KMAF0035) 315650.86N/1021151.00W (3.12)

FPT NOTIFIED OF PENETRATIONS

XP60-MAINTAIN PREVIOUS MDA PER FPT

RADIO FIX AND HOLDING DATA RECORD

NAME: AYUPA **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 320337.06N/1015953.77W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE		WP	044.76	224.76	R		5	4700	8000	6	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-004342)	320108.00N/1020133.00W	3185	3C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 22		1	KMAF	MIDLAND	TX (US)
IAP	RNAV (GPS) RWY 4		1	KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 03/01/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: MAF APP CON/ATCT
OTHER:

QUALITY CHECK

RADIO FIX AND HOLDING DATA RECORD

NAME: DILBE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 315254.63N/1021659.32W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 4			KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REPOSITIONED FIX 602 FT SOUTHWEST
DELETED FAC 1 AND ASSOCIATED DATA
UPDATED FIX USE

DEVELOPED BY: **DATE:** 03/01/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: MAF APP CON/ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: TOKRE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314836.06N/1022350.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW		WP	224.56	044.56	R		5	5000	8000	6	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-003393)	314540.00N/1023130.00W	3601	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 22		1	KMAF	MIDLAND	TX (US)
IAP	RNAV (GPS) RWY 4		1	KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 03/01/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: MAF APP CON/ATCT
OTHER:

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **MIDLAND** STATE: **TX**

AIRPORT NAME: **MIDLAND INTL** ID: **KMAF**

PROCEDURE: **RNAV (GPS) RWY 4** AMDT: **AMDT 1**

DOCKET # :
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.15**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **53.62**
4. High Terrain in **FINAL** segment containing 1000' point **2875**
5. Distance from **THLD** to 1500' point **4.84**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.95**
7. True Course of **FINAL** segment containing 1500' point **53.62**
8. High Terrain in **FINAL** segment containing 1500' point **2875**
9. Threshold Coordinates (if straight-in) ... **315554.13N** / **1021213.50W**
10. ARP Coordinates ..... **315633.10N** / **1021206.90W**
11. Runway Approach End and distance furthest from ARP.....RWY **16R**
    Distance **1.03** NM
12. FAF Coordinates ..... **315254.63N** / **1021659.32W**
    (Click to Select)

REMARKS: Approach/Drawing attached.
TOKRE: 314836.06N/1022350.00W
TAA UTILIZES 30 NM RADIUS. LEFT AND RIGHT BASE AREAS NOT USED

RADIO FIX AND HOLDING DATA RECORD

NAME: CEPTA **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314431.75N/1021822.31W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HEVGO					265.04	6.26				17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	MIDLAND INTERNATIONAL - RNAV (GPS) RWY 4, RNAV (GPS) RWY 34L.			KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/01/2003

DEVELOPED BY: **DATE:** 01/09/2003 **OFFICE:** AVN-140 **NAME:** RONALD COLLINS

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: FTW
ARTCC: ZFW
ATC FACILITY: MAF APP CON
OTHER:

CANCELLED

RADIO FIX AND HOLDING DATA RECORD

NAME: COBAC **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 315432.24N/1022659.73W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	TENLE					323.66	6.36				17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	MIDLAND INTERNATIONAL - RNAV (GPS) RWY 4			KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/01/2003

DEVELOPED BY: **DATE:** 01/07/2003 **OFFICE:** AVN-140 **NAME:** RONALD COLLINS

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: FTW
ARTCC: ZFW
ATC FACILITY: MAF APP CON
OTHER:

CANCELLED

RADIO FIX AND HOLDING DATA RECORD

NAME: TENLE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314925.05N/1022233.88W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	KMAF R04					233.66	10.94				17500

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW		WP	224.57	044.57	R		4	4700	14000	5	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (44-3393)	314540.00N/1023130.00W	3601	5D

REMARKS:
HOLDING LIMITED TO ESTABLISHED PATTERN

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	MIDLAND INTERNATIONAL - RNAV (GPS) RWY 4, RNAV (GPS) RWY 22			KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/01/2003

DEVELOPED BY: **DATE:** 03/25/2003 **OFFICE:** AVN-140 **NAME:** RONALD COLLINS

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: FTW
ARTCC: ZFW
ATC FACILITY: MAF APP CON
OTHER:

CANCELLED