US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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
MAF VORTAC	FARLY LOM/I-MAF 7.50 DME	248.51 / 6.99	4900
GOMIT INT (IAF)	ARGET/I-MAF 15.15 DME (NOPT)	059.58 / 1.09 (HDG) & 104.58 / 9.64 (I-MAF)	4900
INK VORTAC (IAF)	ARGET/I-MAF 15.15 DME (NOPT)	064.95 / 41.07	7000
ARGET/I-MAF 15.15 DME (IF)	FARLY LOM/I-MAF 7.50 DME	104.58 / 7.65 (I-MAF)	4900

MISSED APPROACH

ILS: DA
LOC: 6.05 MILES AFTER FARLY LOM/I-MAF 7.50 DME OR AT I-MAF 1.45 DME FIX

CLIMB TO 4900 ON I-MAF SE COURSE AND MAF VORTAC R-117 TO DERIC INT/MAF 19.00 DME AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 3500 THEN CLIMBING RIGHT TURN TO 4800 TO FARLY LOM/I-MAF 7.50 DME AND HOLD, ADF REQUIRED.

1. PT L SIDE OF COURSE 284.58 OUTBOUND 4900 FT WITHIN 15 MILES OF FARLY LOM (IAF)
2.
3. FAC: 104.58 FAF: FARLY LOM/I-MAF 7.50 DME DIST FAF TO MAP: 6.05 THLD: 6.05
4. MIN. ALT: FARLY LOM 4900
5. DIST TO THLD FROM OM: 6.05 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1085
6. MIN GS INCPT: 4900 GS ALT AT: - OM: 4884 MM: - IM: -
7. GS ANGLE: 3.00 TCH: 54.3
8. MSA FROM: MA LOM 5500

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 297.02 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W FARLY LOM/I-MAF 7.50 DME, RT, 104.58 INBOUND.
CHART FAS OBST: 3112 DRILLING RIG 315823N/1021743W
CHART: ASR
CHART VDP AT 3.01 DME*;
DISTANCE VDP TO THLD 1.56 MILES.
*LOC ONLY.
CHART (CFMBW) AT INTERSECTION OF DR LEG AND INTERMEDIATE COURSE.
CHART IN PLANVIEW: INK VORTAC 41.07 DME AT ARGET INT

MAG VAR: 9E EPOCH YEAR: 1985

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A ILS: STANDARD # LOC: 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
S-ILS 10**	3069	2400	200	3069	2400	200	3069	2400	200	3069	2400	200	3069	2400	200
S-LOC 10	3420	2400	551	3420	2400	551	3420	6000	551	3420	6000	551	3420	6000	551
CIRCLING	3440	1	568	3440	1	568	3440	1 1/2	568	3520	2	648	3600	2 1/2	728

NOTES:
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GOMIT ON V16 SOUTHWEST BOUND.
CHART NOTE: CIRCLING TO RWY 16L NA AT NIGHT.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 10 CAT E VISIBILITY TO RVR 4000 AND S-LOC 10 CAT C/D/E TO 1 5/8 AND CAT C CIRCLING VISIBILITY TO 1 3/4 MILE.

CAT D 700-2, CAT E 800-2 1/2
@ CAT E 800-2 1/2
#@ NA WHEN CONTROL TOWER CLOSED.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2872 THRE: 2869	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: MIDLAND INTL	I-MAF	ILS OR LOC RWY 10, AMDT 15	AMDT: 14D
				DATED 10/21/2010

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, MAF APP CON, CEN FPT, 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. CHANGED FINAL COURSE FROM 105.00 TO 104.58
2. CHANGED DIST FAF TO MAP FROM 6.10 TO 6.05
3. CHANGED TCH FROM 55 TO 54.3
4. RAISED S-LOC 10 MDA FROM 3260 TO 3420
5. RAISED CMDA FROM 3340 TO 3440 AND 3520
6. CHANGED PT OUTBOUND COURSE FROM 285.00 TO 284.58
7. CHANGED INTERMEDIATE COURSE/DIST FROM 105.00/7.60 TO 104.58/7.65
8. CHANGED INK INITIAL COURSE/DIST FROM 065.00/41.10 TO 64.95/41.07
9. CHANGED GOMIT DR FROM 079.00/2.30 TO 059.58/1.09 AND 105.00/8.43 TO 104.58/9.64
10. CHANGED MAF FEEDER COURSE/DIST FROM 249.00/7.00 TO 248.51/6.99
11. CHANGED CNF FROM FFILK TO CFMBW
12. CHARTED VDP
13. CHANGED TDZE TO THRE
14. ADDED PROCEDURE RESTRICTION NOTE FOR NIGHT CIRCLING TO RW16L
SEE 8260-10

REASONS:

1. OPTIMIZATION
2. PFAF LOCATION
3. AVNIS
4/5. OBSTACLE STUDY
6. CONSISTENT WITH FINAL COURSE CHANGE
7/8/9/10. RECALCULATION
11. CNF NAMING CRITERIA
12. QUALIFIES FOR VDP
13. SURVEY
14. UNLIT PENETRATIONS OF 20:1 SURFACE
15. CRITERIA
16. AIRPORT QUALIFIES

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CITY AND STATE	ELEVATION: 2872 THRE: 2869	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: MIDLAND INTL	I-MAF	ILS OR LOC RWY 10, AMDT 15	AMDT: 14D
				DATED: 10/21/2010

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:

CHANGES CONT.
15. ADDED PROCEDURE ENTRY RESTRICTION NOTE FOR GOMIT ARRIVALS
16. ADDED ALTERNATE MINIMUMS

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.29**

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ARINC PACKET - 424-18 - ILS

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        INK   K4011210VTHW N31522915W103143760    N31522915W103143760E0110028602     NARWINK
        SUSAD        MAF   K4011480VTLW N32003364W102112540    N32003364W102112540E0110028601     NARMIDLAND
        SUSAD KMAFK4 IMAF  K4011030 IT                      IMAFN31561396W102112639     028630     NARMIDLAND INTERNATIONAL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ARGET K40    R     N32022018W102274516                      E0070     NAR           ARGET
        SUSAEAENRT   CFMBW K40    W     N32060991W102380987                      E0070     NAR           CNF(CFMBW)
        SUSAEAENRT   DERIC K40    R   L N31484881W101535142                      E0067     NAR           DERIC
        SUSAEAENRT   FARLY K40    R     N31591692W102193017                      E0069     NAR           FARLY LOM
        SUSAEAENRT   GOMIT K40    C   L N32054598W102392155                      E0071     NAR           GOMIT

                 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 KMAFK4FI10   AGOMIT 010GOMITK4EA0E  A    IF                                          18000                 0 NS
        SUSAP KMAFK4FI10   AGOMIT 020CFMBWK4EA0E       TF                                  + 04900                       0 NS
        SUSAP KMAFK4FI10   AGOMIT 030ARGETK4EA0EE B    CF IMAFK4      2846015110460096PI  + 04900                       0 NS
        SUSAP KMAFK4FI10   AINK   010INK  K4D 0V  A    FC INK K4      0000000006500391D   + 07000     18000             0 NS
        SUSAP KMAFK4FI10   AINK   020ARGETK4EA0EE B    CF IMAFK4      2846015106500020PI  + 07000                       0 NS
        SUSAP KMAFK4FI10   AMAF   010MAF  K4D 0V       IF                                          18000                 0 NS
        SUSAP KMAFK4FI10   AMAF   020FARLYK4EA0E       TF                                  + 04900                       0 NS
        SUSAP KMAFK4FI10   AMAF   030FARLYK4EA0EE AR   PI IMAFK4      2846007523960150PI  + 04900                       0 NS
        SUSAP KMAFK4FI10   I      010ARGETK4EA0E  I    IF IMAFK4      28460151        PI  J 049000490018000                 0 NS
        SUSAP KMAFK4FI10   I      020FARLYK4EA0E  F    CF IMAFK4      2846007510500077PI  H 0490004884        -300MA    K4PN0 NS
        SUSAP KMAFK4FI10   I      030RW10 K4PG0GY M    CF IMAFK4      2846001410500061PI    02924             -300          0 NS
        SUSAP KMAFK4FI10   I      040         0  M     CI                     1046                                          0 NS
        SUSAP KMAFK4FI10   I      050DERICK4EA0EY      CF MAF K4      1170019011700040D   + 04900                       0 NS
        SUSAP KMAFK4FI10   I      060DERICK4EA0EE  R   HM                     2970T010    + 04900                       0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMAFK4GRW10    0083021046 N31565152W102125886-0200    +08502028690000054150IIMAF1
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CITY AND STATE	ELEVATION: **2872** THRE: **2869**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: **MIDLAND INTL**	**I-MAF**	**ILS OR LOC RWY 10, AMDT 15**	AMDT: **14D**
				DATED: **10/21/2010**

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:

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMAFK4IIMAF1   011030RW10 N31561668W1021125281046N31565085W1021245460498 10850456300E00905402865

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMAFK4SMA   K4PN               0   18018005525                                                                        M

                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAPNKMAFK4 MA    K4003260HO W N31591715W102193055                      E0090          NARFARLY
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QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 2872 THRE: 2869	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: MIDLAND INTL	I-MAF	ILS OR LOC RWY 10, AMDT 15	AMDT: 14D
				DATED: 10/21/2010

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

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.29**

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ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	GOMIT	GOMIT	010	IAF	IF		FB					
	GOMIT	CFMBW	020		TF		FB				AA 04900	
	GOMIT	ARGET	030		CF		FB		104.6()	009.6	AA 04900	
	INK	INK	010	IAF	FC		FB		065.0()	039.1	AA 07000	
	INK	ARGET	020		CF		FB		065.0()	002.0	AA 07000	
	MAF	MAF	010		IF		FB					
	MAF	FARLY	020		TF		FB				AA 04900	
	MAF	FARLY	030	IAF	PI	R	FB		239.6()	015.0	AA 04900	
		ARGET	010	FACF	IF		FB				AA 04900 GI 04900	
		FARLY	020	FAF	CF		FB		105.0()	007.7	GI 04900 GS 04884	
		RW10	030	MAP	CF		FO		105.0()	006.1	AT 02924	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CI		FB		104.6()			
	DERIC	050		CF		FO		117.0()	004.0	AA 04900	
	DERIC	060		HM	R	FO		297.0()	T01.0	AA 04900	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	INK	N315229.15	W1031437.60	N3152.486	W10314.627
	MAF	N320033.64	W1021125.40	N3200.561	W10211.423
	IMAF (DME)	N315613.96	W1021126.39	N3156.233	W10211.440
	ARGET	N320220.18	W1022745.16	N3202.336	W10227.753
	CFMBW	N320609.91	W1023809.87	N3206.165	W10238.165
	DERIC	N314848.81	W1015351.42	N3148.814	W10153.857
	FARLY	N315916.92	W1021930.17	N3159.282	W10219.503
	GOMIT	N320545.98	W1023921.55	N3205.766	W10239.359
	RW10	N315651.52	W1021258.86	N3156.859	W10212.981
	IMAF (LOC)	N315616.68	W1021125.28	N3156.278	W10211.421
	MA	N315917.15	W1021930.55	N3159.286	W10219.509

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW10	02869	54

QUALITY CHECKED

CITY AND STATE	ELEVATION: **2872** THRE: **2869**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: **MIDLAND INTL**	**I-MAF**	**ILS OR LOC RWY 10, AMDT 15**	AMDT: **14D**
				DATED: **10/21/2010**

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

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.25**

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.

ARINC PACKET - 424-18 - LOC

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        INK   K4011210VTHW N31522915W103143760    N31522915W103143760E0110028602     NARWINK
        SUSAD        MAF   K4011480VTLW N32003364W102112540    N32003364W102112540E0110028601     NARMIDLAND
        SUSAD KMAFK4 IMAF  K4011030 IT                     IMAFN31561396W102112639     028630     NARMIDLAND INTERNATIONAL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ARGET K40    R     N32022018W102274516                      E0070     NAR           ARGET
        SUSAEAENRT   CFMBW K40    W     N32060991W102380987                      E0070     NAR           CNF(CFMBW)
        SUSAEAENRT   DERIC K40    R   L N31484881W101535142                      E0067     NAR           DERIC
        SUSAEAENRT   FARLY K40    R     N31591692W102193017                      E0069     NAR           FARLY LOM
        SUSAEAENRT   GOMIT K40    C   L N32054598W102392155                      E0071     NAR           GOMIT

                 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 KMAFK4FL10   AGOMIT 010GOMITK4EA0E  A    IF                                          18000                 0 NS
        SUSAP KMAFK4FL10   AGOMIT 020CFMBWK4EA0E       TF                                  + 04900                       0 NS
        SUSAP KMAFK4FL10   AGOMIT 030ARGETK4EA0EE B    CF IMAFK4      2846015110460096PI  + 04900                       0 NS
        SUSAP KMAFK4FL10   AINK   010INK  K4D 0V  A    FC INK K4      0000000006500391D   + 07000     18000             0 NS
        SUSAP KMAFK4FL10   AINK   020ARGETK4EA0EE B    CF IMAFK4      2846015106500020PI  + 07000                       0 NS
        SUSAP KMAFK4FL10   AMAF   010MAF  K4D 0V       IF                                          18000                 0 NS
        SUSAP KMAFK4FL10   AMAF   020FARLYK4EA0E       TF                                  + 04900                       0 NS
        SUSAP KMAFK4FL10   AMAF   030FARLYK4EA0EE AR   PI IMAFK4      2846007523960150PI  + 04900                       0 NS
        SUSAP KMAFK4FL10   L      010ARGETK4EA0E  I    IF IMAFK4      28460151        PI  + 04900     18000             0 NS
        SUSAP KMAFK4FL10   L      020FARLYK4EA0E  F    CF IMAFK4      2846007510500077PI  + 04900                 MA    K4PN0 NS
        SUSAP KMAFK4FL10   L      030RW10 K4PG0GY M    CF IMAFK4      2846001410500061PI    02924             -308       0 NS
        SUSAP KMAFK4FL10   L      040         0  M     CI                      1046                                      0 NS
        SUSAP KMAFK4FL10   L      050DERICK4EA0EY      CF MAF K4      1170019011700040D   + 04900                       0 NS
        SUSAP KMAFK4FL10   L      060DERICK4EA0EE  R   HM                      2970T010    + 04900                       0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMAFK4GRW10    0083021046 N31565152W102125886-0200    +08502028690000541 50IIMAF1
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: **2872** THRE: **2869**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: **MIDLAND INTL**	**I-MAF**	**ILS OR LOC RWY 10, AMDT 15**	AMDT: **14D**
				DATED: **10/21/2010**

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:

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.

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMAFK4IIMAF1   011030RW10 N31561668W1021125281046N31565085W1021245460498 10850456300E00905402865
                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMAFK4SMA   K4PN               0   18018005525                                                                        M
                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAPNKMAFK4 MA    K4003260HO W N31591715W102193055                     E0090          NARFARLY
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2872 THRE: 2869	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: MIDLAND INTL	I-MAF	ILS OR LOC RWY 10, AMDT 15	AMDT: 14D
				DATED: 10/21/2010

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

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.25**

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.

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	GOMIT	GOMIT	010	IAF	IF		FB					
	GOMIT	CFMBW	020		TF		FB				AA 04900	
	GOMIT	ARGET	030		CF		FB		104.6()	009.6	AA 04900	
	INK	INK	010	IAF	FC		FB		065.0()	039.1	AA 07000	
	INK	ARGET	020		CF		FB		065.0()	002.0	AA 07000	
	MAF	MAF	010		IF		FB					
	MAF	FARLY	020		TF		FB				AA 04900	
	MAF	FARLY	030	IAF	PI	R	FB		239.6()	015.0	AA 04900	
		ARGET	010	FACF	IF		FB				AA 04900	
		FARLY	020	FAF	CF		FB		105.0()	007.7	AA 04900	
		RW10	030	MAP	CF		FO		105.0()	006.1	AT 02924	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CI		FB		104.6()			
	DERIC	050		CF		FO		117.0()	004.0	AA 04900	
	DERIC	060		HM	R	FO		297.0()	T01.0	AA 04900	

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
INK	N315229.15	W1031437.60	N3152.486	W10314.627
MAF	N320033.64	W1021125.40	N3200.561	W10211.423
IMAF (DME)	N315613.96	W1021126.39	N3156.233	W10211.440
ARGET	N320220.18	W1022745.16	N3202.336	W10227.753
CFMBW	N320609.91	W1023809.87	N3206.165	W10238.165
DERIC	N314848.81	W1015351.42	N3148.814	W10153.857
FARLY	N315916.92	W1021930.17	N3159.282	W10219.503
GOMIT	N320545.98	W1023921.55	N3205.766	W10239.359
RW10	N315651.52	W1021258.86	N3156.859	W10212.981
IMAF (LOC)	N315616.68	W1021125.28	N3156.278	W10211.421
MA	N315917.15	W1021930.55	N3159.286	W10219.509

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW10	02869	54

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2872 THRE: 2869	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MIDLAND, TX	AIRPORT NAME: MIDLAND INTL	I-MAF	ILS OR LOC RWY 10, AMDT 15	AMDT: 14D
				DATED: 10/21/2010

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.
FEEDER	MAF VORTAC	FARLY LOM/I-MAF	1. TOWER (48-008997)	320405.00N/1021353.00W	3549 (2C)	1000	AT351	4900
		7.50 DME	2. TERRAIN	315827.00N/1021918.00W	2950 (3000)		AS1000	4000
INITIAL	GOMIT INT	ARGET/I-MAF	3. TOWER (48-015547)	320441.81N/1023350.55W	3449 (5D)	1000	AT451	4900
		15.15 DME	4. TERRAIN	321124.00N/1024154.00W	3235 (3200)		AS1500	4700
INITIAL	INK VORTAC	ARGET/I-MAF	5. TOWER (48-000653)	315917.00N/1025243.00W	4490 (3C)	1000	AT1510	7000
		15.15 DME	6. TERRAIN	315917.00N/1025243.00W	3410 (3400)		AS1500	4900
INTERMEDIATE	ARGET/I-MAF	FARLY LOM/I-MAF	7. TOWER (48-011283)	320118.00N/1022550.00W	3258 (2C)	500	AT1142	4900
	15.15 DME	7.50 DME	8. TERRAIN	315957.00N/1022857.00W	3029 (3000)		AS1000	4000
INTERMEDIATE: PT	15 NM	FARLY LOM/I-MAF	3. TOWER (48-015547)	320441.81N/1023350.55W	3449 (5D)	1000	AT451	4900
		7.50 DME	9. TERRAIN	320441.81N/1023350.55W	3133 (3100)		AS1500	4600
FINAL: ILS	GS INTCP	RW10				ASC		3069/200
2. PROCEDURE TURN	FARLY LOM	15 NM	11. AAO	320318.00N/1024651.00W	3537 (4E)	1000	AT363	4900
			12. TERRAIN	320318.00N/1024651.00W	3337 (3300)		AS1500	4800
3. MISSED APPROACH — MAP:	DA / 6.05 MILES	DERIC INT/MAF				ASC		4900
	AFTER FARLY	19.00 DME	13. TOWER (48-005854)	315453.00N/1015750.00W	3460 (5D)	1000		4500
ELEV:	2902/3167		14. TERRAIN	315700.00N/1021251.00W	2875 (2900)		AS1000	3900

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	568	17. DRILLING RIG	315830.43N/1021316.38W	3071 (4D)	300	AC50	3440
CATEGORY B	1.5 NM	450	568	17. DRILLING RIG	315830.43N/1021316.38W	3071 (4D)	300	AC50	3440
CATEGORY C	1.7 NM	450	568	18. DRILLING RIG	315839.59N/1021335.15W	3078 (4D)	300	AC50	3440
CATEGORY D	2.3 NM	550	648	19. DRILLING RIG	315812.53N/1021447.92W	3163 (4D)	300	AC50	3520
CATEGORY E	4.5 NM	550	728	20. TOWER (48-002518)	315803.00N/1020707.00W	3234 (5D)	300	AC50	3600

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: MA LOM

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (48-000653)	261/ 28.3	4490 (3C)	5500					

CITY AND STATE	ELEVATION: 2872 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MIDLAND, TX	MIDLAND INTL	I-MAF	ILS OR LOC RWY 10, AMDT 15	ASW

PART B - SUPPLEMENTAL DATA

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

4. MONITOR STATUS	PRIMARY NAVAID: I-MAF		
	MONITOR POINT: MAF ATCT		
	HRS OPTN:	CAT 1	TOWER OPEN
		CAT 3	TOWER CLOSED

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: 2869.3
	DISTANCE FROM RWY: 1085	ELEV GP ANTENNA: 2866.7
		THRESHOLD CROSSING HEIGHT: 54.3

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:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

NO ADDITIONAL AIRSPACE REQUIRED.

40' VEGETATION APPLIED PER FPT

KMAF ASOS ON SVC A
REDUNDANT WEATHER REPORTING SOURCES ON APT

VGSI DATA: 3.00/54.4

TERPS VOL 1, VISUAL PORTION OF FINAL PENETRATIONS
RW16L
20:1
2875 TREE (KMAF0047) 315649.00N/1021150.07W (7.70)
2880 ROAD (KMAF0035) 315650.86N/1021151.00W (3.12)

CEN FPT NOTIFIED

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
15. TOWER (48-000690) 315141.40N/1021943.50W 3309 (5D)
1000 4400
16. TERRAIN 315530.00N/1022318.00W 2979 (3000) AS1000
4000

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LOC	FARLY LOM/I-MAF	6.05 MILES AFTER	10. DRILLING RIG	315823.32N/1021742.56W	3112 (4D)	250	AC50 XL3	3420
	7.50 DME	FARLY LOM/I-MAF						
		7.50 DME OR AT						
		I-MAF 1.45 DME						
		FIX						

3. MISSED APPROACH									
	MAP:								
	ELEV:								

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL						
CATEGORY A	1.3 NM	350							
CATEGORY B	1.5 NM	450							
CATEGORY C	1.7 NM	450							
CATEGORY D	2.3 NM	550							
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		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MIDLAND, TX	ELEVATION: 2872 AIRPORT NAME: MIDLAND INTL	I-MAF	ILS OR LOC RWY 10, AMDT 15	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
SATISFACTORY ON:	N W S	OTHER:	SOURCE:
	F A A		DISTANCE:
	A / C		HOURS REMOTE OPERATION:
V H F / U H F / H F	LOCATION:		ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	

5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC
	ALL WEATHER
	INSTRUMENT
7. RUNWAY VISUAL RANGE	APPROACH
	MIDFIELD
	ROLL OUT

8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD	FT. FROM THRESHOLD
		ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

RADIO FIX AND HOLDING DATA RECORD

NAME: ARGET **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 320220.18N/1022745.16W **TYPE:** INT, DME

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

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	MIDLAND	I-MAF	LOC/DME		284.58	293.58	15.15	15.15		4900	7500
2	WINK	INK	VORTAC	H	064.95	075.95		41.07		7000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
INK	VORTAC	R-065	42	7000	7500

FIX RESTRICTIONS:
MRA INK 7000

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

REMARKS:
MIDLAND (FAC 1) AND WINK (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 10	1		KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 08/23/2012

REASON FOR REVISION:
REPOSITIONED FIX 269 FT NORTH
CHANGED FAC 1 DME VALUE FROM 15.13 TO 15.15
CHANGED FAC 1 BEARING FROM 284.59 TO 284.58
ADDED DIST FROM FAC 1
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/28/2012 **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 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFMBW **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 320609.91N/1023809.87W **TYPE:** CNF

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 10			KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 02/28/2012 **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

RADIO FIX AND HOLDING DATA RECORD

NAME: DERIC **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314848.81N/1015351.42W **TYPE:** INT, DME

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

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	MIDLAND	MAF	VORTAC	L	117.02	128.02	19.00	19.00		4000	14000
2	BIG SPRING	BGS	VORTAC	L	200.74	211.74		40.23		4000	14000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BGS	VORTAC	R-201	41	4000	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	SE	MAF	VORTAC	117.02	297.02	R	1		4600	14000	9	12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (48-005854)	315453.00N/1015750.00W	3460	5D

HOLDING RESTRICTIONS:
PAT 1 CHART 230K ICON
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
MIDLAND (FAC 1) AND BIG SPRING (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-VOR/DME OR TACAN RWY 16R	1, 2	1	KMAF	MIDLAND	TX (US)
IAP	ILS OR LOC RWY 10	1, 2	1	KMAF	MIDLAND	TX (US)
IAP	LOC BC RWY 28	1, 2		KMAF	MIDLAND	TX (US)
IAP	VOR OR TACAN RWY 16R	1, 2	1	KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 08/23/2012

REASON FOR REVISION:
DELETED WP FROM FIX TYPE
ADDED DIST FROM FAC 1/2
CHANGED HOLDING INBOUND COURSE FROM 297.00 TO 297.02
CHANGED HOLDING PAT OBSTACLE FROM 3449 TWR TO 3460 TWR
CHANGED HOLDING PAT TEMPLATES FROM 8/11 TO 9/12
DELETED DME LEG LENGTH
ADDED ESV DATA
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/28/2012 **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 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FARLY LOM **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 315916.92N/1021930.17W **TYPE:** DME

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

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	FARLY	MA	LOM							4600	17500
2	MIDLAND	I-MAF	LOC/DME		284.58	293.58	7.50	7.50	45572	4800	7300

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	W	MA	LOM	284.58	104.58	R	1		4800	14000	7	10
2	NE	MA	LOM	030.60	210.60	L	1		5100	14000	5	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (48-015547)	320441.81N/1023350.55W	3449	5D
2	200	TOWER (48-005355)	320551.00N/1021723.00W	4048	1A

REASON FOR NONSTANDARD HOLDING:
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
MIDLAND (FAC 2) USED TO ESTABLISH FIX COORDINATES
COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE FARLY LOM.
ACTUAL FACILITY LOCATION IS 315916.84N/1021930.21W.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 10	1, 2		KMAF	MIDLAND	TX (US)
IAP	ILS OR LOC RWY 10 (ALT MA)	1, 2	1	KMAF	MIDLAND	TX (US)
IAP	LOC BC RWY 28	1, 2	1	KMAF	MIDLAND	TX (US)
IAP	RADAR-1 (ALT MISSED)		1	KMAF	MIDLAND	TX (US)
IAP	NDB RWY 20	1	2	KODO	ODESSA	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REPOSITIONED FIX 9.18 FT NORTHEAST
ADDED REMARKS PERTAINING TO THE FIX LOCATION ABEAM THE CENTERLINE
CHANGED PATTERN 1 INBOUND COURSE FROM 105 TO 104.58

DEVELOPED BY: **DATE:** 02/28/2012 **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 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GOMIT **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 320545.98N/1023921.55W **TYPE:** WP, INT, DME

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

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	WINK	INK	VORTAC	H	055.01	066.01	32.79	32.79		5000	14000
2	HOBBS	HOB	VORTAC	L	125.00	136.00	45.00	45.00		5000	14000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
HOB	VORTAC	R-125	45	5000	14000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	INK	VORTAC	055.01	235.01	R	1-1 1/2	4	4700	14000	9	12
2	SE	HOB	VORTAC	136.00	316.00	R	1-1 1/2	4	5500	14000	8	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (48-000653)	315917.00N/1025243.00W	4490	3C
2	230	TOWER (48-013767)	321017.00N/1024630.00W	3665	1D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:
HOBBS (FAC 2) AND WINK (FAC 1) USED TO ESTABLISH FIX COORDINATES
DO NOT CHART HOLDING PATTERNS
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLDING AT ATC REQUEST

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V16	1, 2				(US)
IAP	ILS OR LOC RWY 10	1, 2		KMAF	MIDLAND	TX (US)
IAP	RNAV (GPS) RWY 11			KODO	ODESSA	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
CHANGED FAC 1 BRG FROM 055.00 TO 055.01
CHANGED FAC 1 DIST/DME FROM 32.78 TO 32.79
DELETED ALL REFERENCE TO UNPLANNED HOLDING
ADDED HOLDING PATTERN 1/2 AND ASSOCIATED DATA

DEVELOPED BY: **DATE:** 02/28/2012 **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
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: MIDLAND VORTAC **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 320033.64N/1021125.40W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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	MIDLAND	MAF	VORTAC	L						4000	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	MAF	VORTAC	051.14	231.14	L	1		5000	6000	5	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	310	TOWER (48-004478)	315755.00N/1024612.00W	4240	3C
1	200	TOWER (48-000685)	315730.00N/1020401.00W	3287	4D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5300.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MIDLAND			KMAF	MIDLAND	TX (US)
EN ROUTE	V546					(US)
EN ROUTE	V66					(US)
EN ROUTE	V68					(US)
EN ROUTE	V81					(US)
EN ROUTE	V94					(US)
IAP	HI-VOR/DME OR TACAN RWY 16R			KMAF	MIDLAND	TX (US)
IAP	HI-VOR/DME OR TACAN RWY 34L			KMAF	MIDLAND	TX (US)
IAP	ILS OR LOC RWY 10			KMAF	MIDLAND	TX (US)
IAP	LOC BC RWY 28			KMAF	MIDLAND	TX (US)
IAP	VOR OR TACAN RWY 16R			KMAF	MIDLAND	TX (US)
IAP	VOR/DME OR TACAN RWY 34L			KMAF	MIDLAND	TX (US)
IAP	VOR-A			KMDD	MIDLAND	TX (US)
IAP	VOR/DME RWY 25			KMDD	MIDLAND	TX (US)
IAP	NDB RWY 20			KODO	ODESSA	TX (US)
IAP	VOR-A		1	KODO	ODESSA	TX (US)
IAP	NDB RWY 35			KGNC	SEMINOLE	TX (US)

REQUIRED CHARTING: MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 07/29/2010

REASON FOR REVISION:
1. ADDED PAT 1.
2. DELETED REMARK, HOLDING EVALUATED FOR GPS HOLDING.
3. DELETED REMARK, UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5000.
4. ADDED HOLDING RESTRICTION, UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5300.
5. ADDED REMARK, PRECIPITOUS TERRAIN EVALUATION COMPLETED.
6. DELETED UNPLANNED HOLDING 230K AND 265K CONTROLLING OBSTACLE.
7. CHANGED UNPLANNED HOLDING 310K OBSTACLE DESCRIPTION NUMBER.

DEVELOPED BY: **DATE:** 01/13/2010 **OFFICE:** AVN-120 **NAME:** JOSE ALFONSO (DAVID SAUER)

APPROVED BY: **DATE:** 04/26/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: WINK VORTAC **STATE:** TX **COUNTRY:** US

INFO ONLY

LATITUDE/LONGITUDE: 315229.15N/1031437.60W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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	WINK	INK	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	NW	INK	VORTAC	330.00	150.00	R	1		5000	14000	5	10
2	NW		WP	313.57	133.57	L		5	6000	14000	6	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	310	TOWER (48-000653)	315917.00N/1025243.00W	4490	3C
1	200	AAO	320012.00N/1032215.00W	3452	4E
2	200	AAO	320009.00N/1032251.00W	3485	4E

REASON FOR NONSTANDARD HOLDING:
PAT 2 AIR TRAFFIC REQUEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5500.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MIDLAND			KMAF	MIDLAND	TX (US)
EN ROUTE	J108					(US)
EN ROUTE	J15					(US)
EN ROUTE	J4					(US)
EN ROUTE	J50					(US)
EN ROUTE	V16					(US)
EN ROUTE	V546					(US)
EN ROUTE	V94					(US)
IAP	ILS OR LOC RWY 3			KHOB	HOBBS	NM (US)
IAP	LOC/DME BC RWY 21			KHOB	HOBBS	NM (US)
IAP	VOR OR TACAN RWY 3			KHOB	HOBBS	NM (US)
IAP	VOR/DME OR TACAN RWY 21			KHOB	HOBBS	NM (US)
IAP	VOR RWY 12			KFST	FORT STOCKTON	TX (US)
IAP	VOR/DME RWY 30			KFST	FORT STOCKTON	TX (US)
IAP	ILS OR LOC RWY 10			KMAF	MIDLAND	TX (US)
IAP	RNAV (GPS) RWY 12		2	KE01	MONAHANS	TX (US)
IAP	RNAV (GPS) RWY 30		2	KE01	MONAHANS	TX (US)
IAP	VOR/DME RWY 12		1	KE01	MONAHANS	TX (US)
IAP	GPS RWY 14			KPEQ	PECOS	TX (US)
IAP	VOR RWY 14			KPEQ	PECOS	TX (US)
IAP	VOR RWY 13		1	KINK	WINK	TX (US)
STAR	KNEAD			KGKY	ARLINGTON	TX (US)
STAR	KNEAD			KCPT	CLEBURNE	TX (US)
STAR	GLEN ROSE			KADS	DALLAS	TX (US)
STAR	KNEAD			KADS	DALLAS	TX (US)
STAR	GLEN ROSE			KDAL	DALLAS	TX (US)
STAR	KNEAD			KDAL	DALLAS	TX (US)
STAR	KNEAD			KRBD	DALLAS	TX (US)
STAR	GLEN ROSE			KTKI	DALLAS	TX (US)
STAR	KNEAD			KTKI	DALLAS	TX (US)
STAR	GLEN ROSE			KDFW	DALLAS-FORT WORTH	TX (US)
STAR	SLUGG			KDTO	DENTON	TX (US)
STAR	SLUGG			KAFW	FORT WORTH	TX (US)
STAR	SLUGG			KFTW	FORT WORTH	TX (US)
STAR	KNEAD			KFWS	FORT WORTH	TX (US)
STAR	SLUGG			KNFW	FORT WORTH	TX (US)
STAR	KNEAD			KGPM	GRAND PRAIRIE	TX (US)
STAR	KNEAD			KLNC	LANCASTER	TX (US)
STAR	KNEAD			KHQZ	MESQUITE	TX (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

QUALITY CHECKED

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. ADDED MILITARY IAP TO REQUIRED CHARTING.

DEVELOPED BY:	**DATE:** 08/04/2011	**OFFICE:** AJV-353	**NAME:** BEV L BORDY
APPROVED BY:	**DATE:** 11/10/2011	**OFFICE:** AJV-353	**NAME:** GREGORY YAMAMOTO
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW, ZAB
ATC FACILITY: ZFW
OTHER:

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