Flight Procedure Tracking Form

Action: FLIGHT CHECK	**Task Type:** IAP	**Date Open:** 10/02/2012	**Task #:** 2012092429629501003	**Request #:** 20120924296295	
Procedure: ILS OR LOC RWY 10 AMDT 16	**Airport ID:** KMAF	**Airport:** MIDLAND INTL	**Reimbursable #:**		
City: MIDLAND **ST:** TX	**GPS #:**	**Estimated Chart Date:** 05/02/2013	**FICO #:**		
Fac ID: MAF **Fac. Type:** ILS	**Specialist:** DONALD LANIER				

Procedure Review

P1

	Rec'd	Rel'd	Full Name	Comments
Lead:	11/08/2012	01/04/2013	JILL OLSON	
QA:	01/04/2013	01/05/2013	DAVID PUGLISI	
Liaison:	01/05/2013		Spurlin	

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

pcs 1.f1

MIDLAND, TX MIDLAND INTL (KMAF) ILS OR LOC RWY 10, AMDT 16 ENROUTE-YES FC: 3.5.13 PPUB: 5.2.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): ARGET-INT, REV 3; CFMBW, REV 1; DERIC-INT, REV 6; FARLY (MA) LOM, REV 11; GOMIT-INT, REV 8; MIDLAND (MAF) VTAC, REV 9; USILE-INT, ORIG; WINK (INK) VTAC, REV 11.
FLCK NOTE: REQUEST FC 4D AC VERIFICATION ON OBS # 11, 2943 MSL T-L TOWER 315722.33N/1021355.74W.

CONTACT: JILL OLSON/STEVE BARNETT -AVJ-353 LEADS, 405.954.4014 / 405.954.9307.

ILS or LOC RWY 10
MIDLAND INTL (MAF)

NEW

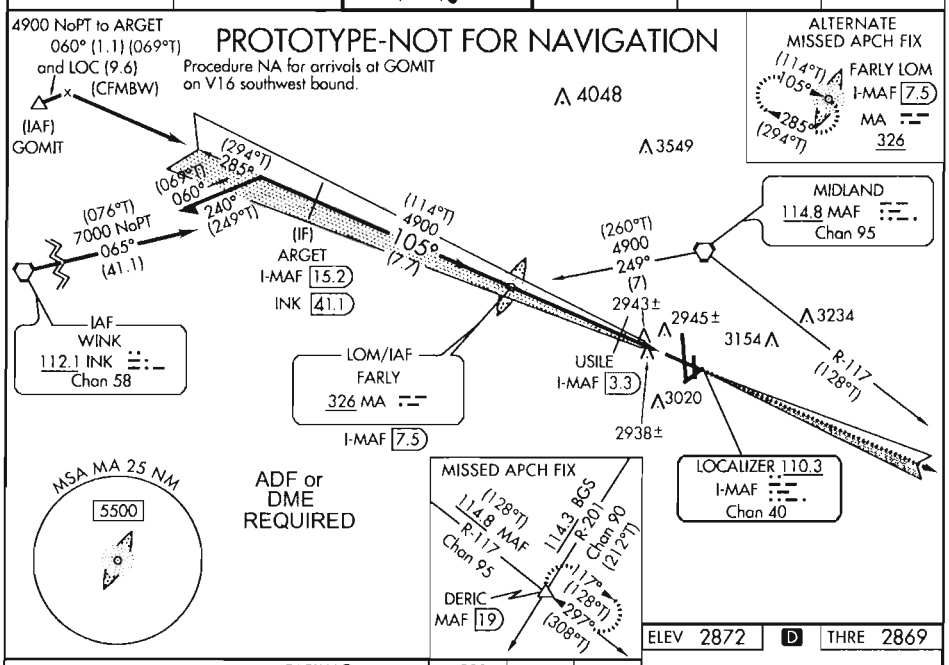
LOC/DME I-MAF	APP CRS	Rwy ldg	8302
110.3	105°	THRE	2869
Chan 40		Apt Elev	2872

**RVR 1800 authorized with use of FD or AP or HUD to DA. Circling to Rwy 16L NA at night. For inop MALSR, increase S-ILS 10 Cat E visibility to RVR 4000, S-LOC Cat E visibility to 1¾ mile. USILE fix minimums increase S-LOC 10 Cat E visibility to 1⅝ mile. ASR

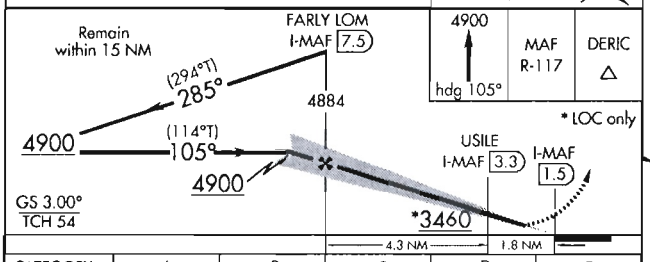
MALSR

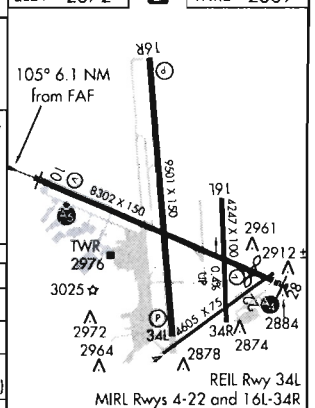
MISSED APPROACH: Climb to 3400 on heading 105°, **then climb to 4900 on** MAF VORTAC R-117 to DERIC INT/ MAF 19 DME and hold.

ATIS	MIDLAND APP CON*	MIDLAND TOWER*	GND CON	CLNC DEL	UNICOM
126.8 235.975	124.6 290.4	118.7 (CTAF) 273.45	121.9 348.6	118.05 317.65	122.95



ELEV 2872 D THRE 2869





CATEGORY	A	B	C	D	E
S-ILS 10**	3069/24 200 (200-½)				
S-LOC 10	3460/24 591 (700-½)		3460-1¼ 591 (700-1¼)		
CIRCLING	3460-1 588 (700-1)		3460-1¾ 588 (700-1¾)	3520-2 648 (700-2)	3600-2½ 728 (800-2½)
USILE FIX MINIMUMS					
S-LOC 10	3420/24 551 (600-½)		3420-60 551 (600-1¼)		
CIRCLING	3440-1 568 (600-1)		3440-1½ 568 (600-1½)	3520-2 648 (700-2)	3600-2½ 728 (800-2½)

FAF to MAP 6.1 NM

Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

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 7.53 DME	248.51 / 6.99	4900
GOMIT INT (IAF)	ARGET/I-MAF 15.18 DME (NOPT)	060.00 / 1.11 (HDG) & 104.58 / 9.62 (I-MAF)	4900
INK VORTAC (IAF)	ARGET/I-MAF 15.18 DME (NOPT)	064.95 / 41.07	7000
ARGET/I-MAF 15.18 DME (IF)	FARLY LOM/I-MAF 7.53 DME	104.58 / 7.65 (I-MAF)	4900

MISSED APPROACH

ILS: DA
LOC: 6.05 MILES AFTER FARLY LOM/I-MAF 7.53 DME OR AT I-MAF 1.48 DME FIX

CLIMB TO 3400 ON HEADING 104.58, THEN CLIMB TO 4900 ON MAF VORTAC R-117 TO DERIC INT/MAF 19.00 DME AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 3400 THEN CLIMBING RIGHT TURN TO 4900 TO FARLY LOM/I-MAF 7.53 DME AND HOLD, (ADF REQUIRED).

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 297.02 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W FARLY LOM/I-MAF 7.53 DME, RT, 104.58 INBOUND.
CHART FAS OBST: 2943 T-L TWR 315722N/1021356W
CHART: ASR
CHART (CFMBW) AT INTERSECTION OF GOMIT DR LEG AND INTERMEDIATE COURSE.
CHART IN PLANVIEW: INK VORTAC 41.07 DME AT ARGET INT

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 7.53 DME DIST FAF TO MAP: 6.05 THLD: 6.05
4. MIN. ALT: FARLY LOM 4900, USILE/I-MAF 3.28 DME 3460*
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

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	3460	2400	591	3460	2400	591	3460	1 1/4	591	3460	1 1/4	591	3460	1 1/4	591
CIRCLING	3460	1	588	3460	1	588	3460	1 1/2	588	3520	2	648	3600	2 1/2	728
USILE FIX MINIMUMS															
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 PLANVIEW NOTE: ADF OR DME REQUIRED.
*LOC ONLY
(SEE FORM 8260-10)

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

QUALITY 4 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 16	AMDT: 15
				DATED 09/20/2012

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] 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: **DONALD H. LANIER**	FIFO **AJV-353**	DATE: **11/16/2012**

APPROVED BY		
NAME: **LARRY H STROUT** **MANAGER**	FIFO **AJV-353**	DATE:

CHANGES:

1. CHANGED PRIMARY MISSED APPROACH TO: CLIMB TO 3400 ON HEADING 104.58, THEN CLIMB TO 4900 ON MAF VORTAC R-117 TO DERIC INT/MAF 19.00 DME AND HOLD , OR AS DIRECTED BY ATC.
2. CHANGED ALTERNATE MISSED APPROACH TO: CLIMB TO 3400 THEN CLIMBING RIGHT TURN TO 4900 TO FARLY LOM/I-MAF 7.53 DME AND HOLD, (ADF REQUIRED).
3. CHANGED INOPERATIVE MALSR NOTE TO: FOR INOPERATIVE MALSR, INCREASE S-ILS 10 CAT E VISIBILITY TO RVR 4000, S-LOC CAT E VISIBILITY TO 1 3/4 MILE. USILE FIX MINIMUMS INCREASE S-LOC 10 CAT E VISIBILITY TO 1 5/8 MILE.
4. ADDED SDF USILE AT 1.8 NM FROM THLD/3.28 DME FROM MAF LOCALIZER AT OR ABOVE 3460, WITH ASTERISK.
5. CHANGED CURRENT MINIMUMS/RENAMED "USILE FIX MINIMUMS".
6. ADDED SECOND SET OF MINIMUMS.
7. REMOVED VDP.
8. ADDED PLANVIEW NOTE: ADF OR DME REQUIRED.
9. MOVED CNF CFMBW 125 FT WEST.

REASONS:

1, 2. MAF LOCALIZER BACKCOURSE DECOMMISSIONED.
3. SECOND SET OF MINIMUMS ADDED.
4. OBSTACLE DATA.
5, 6. SDF ADDED TO FINAL.
7. VDP WITHIN 0.50 NM OF NEW SDF.
8. REQUIRED FOR PROCEDURE ENTRY.
9. PLACED AT INTERSECTION OF DR SEGMENT AND INTERMEDIATE SEGMENT/LOCALIZER.

QUALITY 4 CHECKED

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NOTES, (CONT.):
CHART NOTE: CIRCLING TO RWY 16L NA AT NIGHT.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS CAT E VISIBILITY TO RVR 4000, S-LOC CAT E VISIBILITY TO 1 3/4 MILE. USILE FIX MINIMUMS INCREASE S-LOC CAT E VISIBILITY TO 1 5/8 MILE.

QUALITY CHECKED 4

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 16	AMDT: 15
				DATED: 09/20/2012

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:

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
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        SUSAD        INK   K4011210VTHW N31522915W103143760    N31522915W103143760E0110028602     NARWINK
        SUSAD        MAF   K4011480VTLW N32003364W102112540    N32003364W102112540E0110028601     NARMIDLAND
        SUSAD KMAFK4 IMAF  K4011030 IT                     IMAFN31561198W102112507     028560     NARMIDLAND INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ARGET K40    R     N32022018W102274516                      E0069     NAR           ARGET
        SUSAEAENRT   CFMBW K40    W     N32060988W102380842                      E0070     NAR           CNF(CFMBW)
        SUSAEAENRT   DERIC K40    R   L N31484881W101535142                      E0066     NAR           DERIC
        SUSAEAENRT   FARLY K40    R     N31591692W102193017                      E0068     NAR           FARLY LOM
        SUSAEAENRT   GOMIT K40    C   L N32054598W102392155                      E0070     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      2846015210460096PI  + 04900                       0 NS
        SUSAP KMAFK4FI10   AINK   010INK  K4D 0V  A    FC INK K4      00000000006500391D  + 07000     18000             0 NS
        SUSAP KMAFK4FI10   AINK   020ARGETK4EA0EE B    CF IMAFK4      2846015206500020PI  + 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      2846007623960150PI  + 04900                       0 NS
        SUSAP KMAFK4FI10   I      010ARGETK4EA0E  I    IF IMAFK4      28460152        PI  J 049000490018000                 0 NS
        SUSAP KMAFK4FI10   I      020FARLYK4EA0E  F    CF IMAFK4      2846007610500077PI  H 0490004884        -300MA    K4PN0 NS
        SUSAP KMAFK4FI10   I      030RW10 K4PG0GY M    CF IMAFK4      2846001510500061PI    02924             -300          0 NS
        SUSAP KMAFK4FI10   I      040         0  M     VA                        1046     + 03400                       0 NS
        SUSAP KMAFK4FI10   I      050DERICK4EA0EY      CF MAF K4      1170019011700170D   + 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
```

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 16**	AMDT: **15**
				DATED: **09/20/2012**

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 N31561499W1021120741046N31565085W1021245460925 10850434300E00905402865

                 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 16	AMDT: 15
				DATED: 09/20/2012

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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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		VA		FB		104.6()		AA 03400	
	DERIC	050		CF		FO		117.0()	017.0	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)	N315611.98	W1021125.07	N3156.200	W10211.418
	ARGET	N320220.18	W1022745.16	N3202.336	W10227.753
	CFMBW	N320609.88	W1023808.42	N3206.165	W10238.140
	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)	N315614.99	W1021120.74	N3156.250	W10211.346
	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 16	AMDT: 15
				DATED: 09/20/2012

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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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                     IMAFN31561198W102112507     028560     NARMIDLAND INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ARGET K40    R     N32022018W102274516                      E0069     NAR           ARGET
        SUSAEAENRT   CFMBW K40    W     N32060988W102380842                      E0070     NAR           CNF(CFMBW)
        SUSAEAENRT   DERIC K40    R   L N31484881W101535142                      E0066     NAR           DERIC
        SUSAEAENRT   FARLY K40    R     N31591692W102193017                      E0068     NAR           FARLY LOM
        SUSAEAENRT   GOMIT K40    C   L N32054598W102392155                      E0070     NAR           GOMIT
        SUSAEAENRT   USILE K40    R     N31573480W102145521                      E0068     NAR           USILE

                 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      2846015210460096PI  + 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      2846015206500020PI  + 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      2846007623960150PI  + 04900                      0 NS
        SUSAP KMAFK4FL10   L      010ARGETK4EA0E  I    IF IMAFK4      28460152        PI  + 04900     18000            0 NS
        SUSAP KMAFK4FL10   L      020FARLYK4EA0E  F    CF IMAFK4      2846007610500077PI  + 04900                 MA   K4PN0 NS
        SUSAP KMAFK4FL10   L      021USILEK4EA0E S     CF IMAFK4      2846003310500043PI  + 03460             -308      0 NS
        SUSAP KMAFK4FL10   L      030RW10 K4PG0GY M    CF IMAFK4      2846001510500018PI    02924             -308      0 NS
        SUSAP KMAFK4FL10   L      040         0  M     VA                     1046        + 03400                      0 NS
        SUSAP KMAFK4FL10   L      050DERICK4EA0EY      CF MAF K4      11700190117001700D  + 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
        ------------------------------------------------------------------------------------------------------------------------------------
```

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 16	AMDT: 15
				DATED: 09/20/2012

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.

```
         SUSAP KMAFK4GRW10    0083021046 N31565152W102125886-0200    +08502028690000054150IIMAF1

                  1         2         3         4         5         6         7         8         9         0         1         2         3
ILS      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KMAFK4IIMAF1   011030RW10 N31561499W1021120741046N31565085W1021245460925 10850434300E00905402865

                  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 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 16	AMDT: 15
				DATED: 09/20/2012

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	
		USILE	021	SDF	CF		FB		105.0()	004.3	AA 03460	
		RW10	030	MAP	CF		FO		105.0()	001.8	AT 02924	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		VA		FB		104.6()		AA 03400	
	DERIC	050		CF		FO		117.0()	017.0	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)	N315611.98	W1021125.07	N3156.200	W10211.418
	ARGET	N320220.18	W1022745.16	N3202.336	W10227.753
	CFMBW	N320609.88	W1023808.42	N3206.165	W10238.140
	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
	USILE	N315734.80	W1021455.21	N3157.580	W10214.920
	RW10	N315651.52	W1021258.86	N3156.859	W10212.981
	IMAF (LOC)	N315614.99	W1021120.74	N3156.250	W10211.346
	MA	N315917.15	W1021930.55	N3159.286	W10219.509

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW10	02869	54

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 16	AMDT: 15
				DATED: 09/20/2012

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
		7.53 DME	2. TERRAIN	315831.14N/1021801.56W	2994 (3000)		AS1000	4000
INITIAL	GOMIT INT	ARGET/I-MAF	3. TOWER (48-015547)	320441.81N/1023350.55W	3449 (5D)	1000	AT451	4900
		15.18 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
		15.18 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
	15.18 DME	7.53 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
		7.53 DME	9. TERRAIN	320441.81N/1023350.55W	3133 (3100)		AS1500	4600
FINAL: ILS	GS INTCP	RW10				ASC		3069/200
FINAL: LOC	FARLY LOM/I-MAF	USILE/I-MAF 3.28	10. AAO	315831.14N/1021801.56W	3194 (2C)	250	XL3	3460
	7.53 DME	DME						
2. PROCEDURE TURN	FARLY LOM	15 NM	12. AAO	320318.00N/1024651.00W	3537 (4E)	1000	AT363	4900
			13. 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	14. TOWER (48-005854)	315453.00N/1015750.00W	3460 (5D)	1000	AC50	4600
ELEV:	2902/3170		15. 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	588 / 568	18. DRILLING RIG	315830.43N/1021316.38W	3071 (4D)	300	SI / AC50	3460 / 3440
CATEGORY B	1.5 NM	450	588 / 568	18. DRILLING RIG	315830.43N/1021316.38W	3071 (4D)	300	SI / AC50	3460 / 3440
CATEGORY C	1.7 NM	450	588 / 568	19. DRILLING RIG	315839.59N/1021335.16W	3078 (4D)	300	SI / AC50	3460 / 3440
CATEGORY D	2.3 NM	550	648 / 648	20. DRILLING RIG	315812.53N/1021447.92W	3163 (4D)	300	AC50 / AC50	3520 / 3520
CATEGORY E	4.5 NM	550	728 / 728	21. TOWER (48-002518)	315803.00N/1020707.00W	3234 (5D)	300	AC50 / AC50	3600 / 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					

QUALITY CHECKED 4

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 16	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
MAF TOWER ZFW ARTCC MAF APP CON	N W S / F A A / A / C — OTHER: ASOS	SOURCE: KMAF / KODO DISTANCE: 0 / 9.54 HOURS REMOTE OPERATION:
SATISFACTORY ON: X VHF X UHF H F	LOCATION: KMAF	ADJUSTMENT: 0 / 0

4. MONITOR STATUS

PRIMARY NAVAID:	I-MAF
MONITOR POINT:	MAF ATCT
HRS OPTN: CAT 1	TOWER OPEN
HRS OPTN: 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-4R 28 PAPI-4L 10, 34L, 16R

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: DONALD H. LANIER	DATE: 11/16/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - LESS THAN 0.50 NM AFTER STEPDOWN.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

KMAF ASOS ON SVC A

REDUNDANT WEATHER REPORTING SOURCES ON APT.

VGSI DATA: 3.00/54.2

SEE ATTACHED AIRSPACE LETTER.

40' VEGETATION APPLIED PER FPT

TERPS VOL 1, VISUAL PORTION OF FINAL PENETRATIONS RW16L (FPT NOTIFIED):
20:1
2875 TREE (KMAF0047) 315649.00N/102150.07W (7.70)
2880 ROAD (KMAF0035) 315650.86N/1021151.00W (3.12)

REQUEST FC 4D AC VERIFICATION OF OBST #11 2943 MSL T-L TOWER 315722.33N-1021355.74W.

7000 MINIMUM ALTITUDE INK VORTAC TO ARGET IAF FOR PROCEDURAL SEPARATION PER ATC.

XP177=RAISED TO CURRENT PUBLISHED MINIMUMS.

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
16. TOWER (48-008475) 315100.00N/1022111.00W 3312 (5D)
1000 AC500 4900
17. TERRAIN 315530.00N/1022318.00W 2979 (3000) AS1000
4000

QUALITY CHECKED

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 STEPDOWN	USILE/I-MAF 3.28	6.05 MILES AFTER	11. T-L TWR (48-020785)	315722.33N/1021355.74W	2943 (4D)	250	AC50 XP177	3420
	DME	FARLY LOM/I-MAF						
		7.53 DME OR AT						
		I-MAF 1.48 DME						
		FIX						

3. MISSED APPROACH										
	MAP:									
	ELEV:									

4. CIRCLING AREA	DISTANCE		HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL						
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

NAVAIR 4 CHECKED

CITY AND STATE	ELEVATION: 2872	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MIDLAND, TX	AIRPORT NAME: MIDLAND INTL	I-MAF	ILS OR LOC RWY 10, AMDT 16	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	15.18	15.22		4900	7300
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

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

REMARKS:
MIDLAND (FAC 1) 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: 3 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
CHANGED FAC 1 MAA FROM 7500 TO 7300.
REMOVED FIX RESTRICTION.
UPDATED FIX COORDINATES ESTABLISHMENT REMARK.

DEVELOPED BY: **DATE:** 12/11/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

SIGNATURE:

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

QUALITY A CHECKED

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 320609.88N/1023808.42W **TYPE:** CNF

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

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: 1 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
MOVED FIX 125 FT WEST AND UPDATED COORDINATES.

DEVELOPED BY: **DATE:** 11/15/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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: 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 (ALT MA)	1		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:** 09/20/2012

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:** 07/18/2012 **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	7.53	7.57	45572	4800	7300

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

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	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: 11 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
CHANGED FAC 2 DME FROM 7.50 TO 7.53.
CHANGED FAC 2 DIST FROM FAC NM FROM 7.50 TO 7.57.

DEVELOPED BY: **DATE:** 01/02/2013 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

SIGNATURE:

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

QUALITY A 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:** 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	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	4	4700	14000	9	12
2	SE	HOB	VORTAC	136.00	316.00	R	1	4	5500	14000	9	12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (48-003220)	321510.00N/1023325.00W	3695	5D
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: 8 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
CHANGED HOLDING PAT 2 MIN/MAX TEMPLATES FROM 8/11 TO 9/12.
CHANGED HOLDING PAT 1 AND PAT 2 LEG LENGTH TIMES FROM 1-1/2 TO 1.
CHANGED HOLDIND PAT 1 CONTROLLING OBSTACLE.

DEVELOPED BY: **DATE:** 11/16/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

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

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

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						4000	17500

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

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: DP, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
ADDED DP TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 12/10/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

NAME: USILE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 315734.80N/1021455.21W **TYPE:** DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	MIDLAND	I-MAF	LOC/DME		284.58	293.58	3.28	3.32		3380	4500

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: ORIG **DATE OF REVISION:** 05/02/2013

DEVELOPED BY: **DATE:** 11/15/2012 **OFFICE:** AJV-353 **NAME:** DONALD LANIER

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

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	RNAV (GPS) RWY 14			KPEQ	PECOS	TX (US)
IAP	RNAV (GPS) RWY 32			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:

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

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

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

PROCEDURE: **ILS OR LOC RWY 10** AMDT: **16**

DOCKET#: **NOT REQUIRED**
(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 **3.36**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **0.95**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **113.58**
4. High Terrain in **FINAL** segment containing 1000' point **2994**
5. Distance from **THLD** to 1500' point **5.39**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.38**
7. True Course of **FINAL** segment containing 1500' point **113.58**
8. High Terrain in **FINAL** segment containing 1500' point **2994**
9. Threshold Coordinates (if straight-in) ... **315651.52N** / **1021258.86W**
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 ..... **315916.92N** / **1021930.17W**

REMARKS: Approach/Drawing attached.