Federal Aviation Administration

Memorandum

Date: JUL 18 2012

To: NGB/A3OS
1411 Jefferson Davis Highway
Arlington, VA 22202-3231

From: Larry H. Strout, Manager, Terminal Procedures & Charting Services Central Products Team, AJV-353

Subject: **ACTION:** Transmittal of Data

The attached FAA Form(s) for Midland Intl, Midland, TX (KMAF) are submitted for further processing. The low procedures are projected for publication on 09/20/12. Please adjust your processing accordingly.
Please return a signed copy for our files.

8260-13	HI VOR/DME OR TACAN RWY 16R, AMDT 3
	HI VOR/DME OR TACAN RWY 34L, AMDT 2

The attached FAA Form(s) have been forwarded to NFDC.

8260-2	BRNET, TX REV 2	CRANE, TX REV 2
	DERIC, TX REV 6	GIBAR, TX REV 2
	ODDLE, TX REV 8	SASRY, TX ORIG

Attachments

UNITED STATES AIR FORCE

TACAN OR VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Attitudes 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	CRANE/MAF 18.00 DME	176.98 / 18.00	14000
BRNET/MAF 26.00 DME (IAF)	CRANE/MAF 18.00 DME	356.98 / 8.00 (MAF R-177)	6500
CRANE/MAF 18.00 DME (IF)	ODDLE/MAF 10.00 DME	356.98 / 8.00 (MAF R-177)	4600

MISSED APPROACH

MAF 4.59 DME FIX

CLIMB TO 4800 DIRECT MAF VORTAC AND ON MAF VORTAC R-357 TO MERGE INT/MAF 16.66 DME AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD N, LT, 176.74 INBOUND.
CHART ARRIVAL HOLDING AT CRANE/MAF 18.00 DME,
HOLD S, LT 356.98 INBOUND, 14000.
FAS OBST: 3052 AAO 315223N/1021414W
CHART: ASR
CHART VDP AT 5.91 DME;
DISTANCE VDP TO THLD 1.32 MILES.
ODDLE TO RW34L: 2.96/50.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT BRNET/MAF 26.00 DME
3. FAC 356.98 FAF ODDLE/MAF 10.00 DME DIST FAF TO MAP ____ THLD 5.41
4. MIN. ALT CRANE 6500, ODDLE 4600
8. MSA FROM: MAF VORTAC 5100, ESA W/IN 100 NM 7000

MAG VAR: 11E EPOCH YEAR: 1965

MINIMUMS

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

ALTERNATE: NA

CATEGORY	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-34L							3320	1 3/8	469	3320	1 3/8	469	3320	1 3/8	469
CIRCLING							3440	1 1/2	568	3520	2	648	3600	2 1/2	728

NOTES:

CHART NOTE: CIRCLING TO RWY 16L NA AT NIGHT.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2872 THRE: 2851 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP
MIDLAND, TX	MIDLAND INTL	MAF	HI VOR/DME OR TACAN RWY 34L, AMDT 2	AMDT 1
				DATE 08/31/2006

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] ZFW, MAF APP CON, CEN FPT, AMGR

FLIGHT CHECKED BY

NAME:	FIFO	DATE:
Steven L. Frazier		6/13/12

DEVELOPED BY

NAME:	FIFO	DATE:
JILL OLSON (BRIAN BERUBEE)	AJV-353	03/19/2012

APPROVED BY

NAME:	FIFO	DATE:

CHANGES:

RECOMMENDED BY: _____
LARRY H STROUT, MANAGER, AJV-353

1. FINAL COURSE CHANGED FROM 357.00 TO 356.98
2. CHANGED DIST FAF TO MAP FROM 5.40 TO 5.41
3. RAISED FAF ALTITUDE FROM 4400 TO 4600
4. INTERMEDIATE COURSE CHANGED FROM 357.00 TO 356.98
5. INITIAL COURSE CHANGED FROM 357.00 TO 356.98
6. ARRIVAL HOLDING PATTERN COURSE CHANGED FROM 357.00 TO 356.98
7. RAISED S-34L MDA FROM 3260 TO 3320
8. RAISED CMDA FROM 3340 TO 3440 AND 3520
9. CHANGED TDZE TO THRE
10. ADDED PROCEDURE RESTRICTION NOTE
11. DELETED BACK UP ALTIMETER NOTE
12. DELETED INK, ABI, AND FST INFO ROUTES
13. ADDED FEEDER ROUTE FROM MAF VORTAC TO CRANE

REASONS:

1. OPTIMIZATION
2. PFAF LOCATION
3. DESCENT GRADIENT/CONSISTANT WITH OTHER TACAN PROCEDURE
4/5/6. CONSISTANT WITH FINAL CHANGE
7/8. OBSTACLE STUDY
9. USING THRE IN LIEU OF TDZE
10. UNLIT PENETRATIONS OF 20:1 SURFACE
11. FPT REQUEST
12. ADDED FEEDER ROUTE FROM MAF VORTAC
13. CONECTED PROCEDURE TO ENROUTE STRUCTURE

QUALITY CHECK

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	CRANE/MAF 18.00	1. TOWER (48-003969)	314740.00N/1021044.00W	3246 (5D)	1000		14000
		DME	2. TERRAIN	315826.00N/1021510.00W	2945 (2900)		AS1500	4400
INITIAL	BRNET/MAF 26.00	CRANE/MAF 18.00	3. TOWER (48-008826)	314102.00N/1021915.00W	3415 (5D)	1000	AT2085	6500
	DME	DME	4. TERRAIN	314100.00N/1021918.00W	2927 (2900)		AS1500	4400
INTERMEDIATE	CRANE/MAF 18.00	ODDLE/MAF 10.00	1. TOWER (48-003969)	314740.00N/1021044.00W	3246 (5D)	1000	DG354	4600
	DME	DME	5. TERRAIN	314315.00N/1021854.00W	2911 (2900)		AS1000	3900
FINAL	ODDLE/MAF 10.00	MAF 4.59 DME FIX	6. AAO	315223.37N/1021413.79W	3052 (2C)	250		3320
	DME							
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	MAF 4.59 DME FIX	MERGE INT/MAF				ASC		4800
		16.66 DME	7. TOWER (48-008997)	320405.00N/1021353.00W	3549 (2C)	1000		4600
ELEV:	3070		8. TERRAIN	321736.00N/1021330.00W	2979 (3000)		AS1000	4000

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	568
CATEGORY D	2.3 NM	550	648
CATEGORY E	4.5 NM	550	728

9. DRILLING RIG	315839.59N/1021335.15W	3078 (4D)	300	AC50	3440
10. DRILLING RIG	315812.53N/1021447.92W	3163 (4D)	300	AC50	3520
11. TOWER (48-002518)	315803.00N/1020707.00W	3234 (5D)	300	AC50	3600

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: MAF VORTAC

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (48-005355)	305/ 07.3	4048 (1A)	5100					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MIDLAND, TX	ELEVATION: 2872 AIRPORT NAME: MIDLAND INTL	MAF VORTAC	HI VOR/DME OR TACAN RWY 34L, AMDT 2	ASW

FAA Form 8260 - 9 / April 2006 (Computer Generated)

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
	F A A		DISTANCE: 0
SATISFACTORY ON:	A / C		HOURS REMOTE OPERATION:
X VHF X UHF HF	LOCATION: KMAF		ADJUSTMENT: 0

4. MONITOR STATUS		
PRIMARY NAVAID: MAF VORTAC		
MONITOR POINT: MOCC		
HRS OPTN:	CAT 1	24
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	MALS 28 (PCL) MALSR 10 (PCL)
X	HIRL 10, 28, 34L, 16R
X	MIRL 16L, 22, 04, 34R
X	REIL 34L
	TDZ
	C/LINE
X	OTHER (SPECIFY) PAPI-4L 34L, 16R VASI-4L 10, 28

6. RUNWAY MARKINGS	BASIC	BSC-G 16L, 34R
	ALL WEATHER	PIR-G 10, 28, 34L, 16R
	INSTRUMENT	NPI-G 22, 04
7. RUNWAY VISUAL RANGE	APPROACH	10
	MIDFIELD	
	ROLL OUT	

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

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

10. WAIVERS: NONE

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

PART C - REMARKS:

PARA 251, 34:1 PENETRATION.

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: 3.00/50.1

TERPS VOL 1, VISUAL PORTION OF FINAL PENETRATION
34:1
2906 POLE (KMAFL013) 315541.67N/1021219.81W (8.11)

RW16L
20:1
2875 TREE (KMAF0047) 315649.00N/1021150.70W (7.70)
2880 ROAD (KMAF0035) 315650.86N/1021151.00W (3.12)

FPT NOTIFIED OF PENETRATION

RADIO FIX AND HOLDING DATA RECORD

NAME: BRNET **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 313445.38N/1021538.93W **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	MIDLAND	MAF	VORTAC	L	176.98	187.98	26.00	26.00		14000	17500

FIX RESTRICTIONS:
MILITARY ONLY

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	HI-VOR/DME OR TACAN RWY 34L	1		KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
REPOSITIONED FIX 40 FT NORTHEAST
ADDED DIST FROM FAC 1
RAISED MRA FROM 4000 TO 14000
UPDATED FIX USE

DEVELOPED BY: **DATE:** 03/07/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** JUL 17 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: CRANE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314241.79N/1021421.17W **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	MIDLAND	MAF	VORTAC	L	176.98	187.98	18.00	18.00		6500	17500

FIX RESTRICTIONS:
MILITARY ONLY

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	S	MAF	VORTAC	176.98	356.98	L		8	14000	17500	14	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (48-012457)	314035.47N/1022133.51W	3447	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
MIDLAND (FAC 1) 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 34L	1	1	KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
REPOSITIONED FIX 42 FT NORTHEAST
ADDED DIST FROM FAC 1
LOWERED MRA FROM 12000 TO 6500
CHANGED PATTERN 1 INBOUND COURSE FROM 357.00 TO 356.98
RAISED PATTERN 1 MIN HOLDING ALT FROM 12000 TO 14000
CHANGED PATTERN 1 MIN TEMPLATE FROM 13 TO 14
CHANGED HOLDING OBSTACLE FROM 3250 TWR TO 3447 TWR
UPDATED FIX USE

DEVELOPED BY: **DATE:** 03/07/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** JUL 17 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: ODDLE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 315038.18N/1021303.19W **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	MIDLAND	MAF	VORTAC	L	176.98	187.98	10.00	10.00	60761	4600	17500

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	HI-VOR/DME OR TACAN RWY 34L	1		KMAF	MIDLAND	TX (US)
IAP	VOR/DME OR TACAN RWY 34L	1		KMAF	MIDLAND	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 08/23/2012

REASON FOR REVISION:
REPOSITIONED FIX 40 FT NORTHEAST
ADDED DIST FROM FAC 1
RAISED MRA FROM 4400 TO 4600
UPDATED FIX USE

DEVELOPED BY: **DATE:** 03/07/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (BRIAN BERUBEE)

APPROVED BY: **DATE:** JUL 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: MERGE **STATE:** TX **COUNTRY:** US **INFO ONLY**

LATITUDE/LONGITUDE: 321706.22N/1020846.50W **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	MIDLAND	MAF	VORTAC	L	356.74	007.74	16.66	16.66		4400	17500
2	BIG SPRING	BGS	VORTAC	L	249.04	260.04		34.22		4400	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	N	MAF	VORTAC	356.74	176.74	L	1		4500	6000	7	7
2	N	MAF	VORTAC	356.74	176.74	L	1-1 1/2		4800	17500	15	22

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-013424)	321741.81N/1021007.13W	3320	2C
2	310	TOWER (48-004448)	322347.00N/1015726.00W	3635	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLDING PAT 1 USED FOR CAT A-D PROCEDURES, PAT 2 USED FOR PROCEDURES WITH CAT E.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V16	1, 2				(US)
EN ROUTE	V81	1, 2	1			(US)
IAP	RNAV (GPS) RWY 34			K2F5	LAMESA	TX (US)
IAP	HI-VOR/DME OR TACAN RWY 34L	1, 2	2	KMAF	MIDLAND	TX (US)
IAP	RADAR-1	1, 2	2	KMAF	MIDLAND	TX (US)
IAP	VOR/DME OR TACAN RWY 34L	1, 2	2	KMAF	MIDLAND	TX (US)
IAP	VOR -A	1, 2	1	KMDD	MIDLAND	TX (US)
IAP	VOR/DME RWY 25	1, 2	1	KMDD	MIDLAND	TX (US)
IAP	RNAV (GPS) RWY 20			KODO	ODESSA	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 07/29/2010

REASON FOR REVISION:
1. DELETED FAC 3 BREWE.
2. RAISED FAC 1 AND 2 MRA FROM 4000 TO 4400.
3. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
4. ADDED REMARK, PRECIPITOUS TERRAIN EVALUATION COMPLETED.
5. MOVED REMARK, HOLDING LIMITED TO ESTABLISHED PATTERNS, TO HOLDING RESTRICTIONS.
6. SPLIT PAT 1 INTO PAT 1 200K HOLDING AND PAT 2 310K HOLDING, ALTITUDES, TEMPLATES, AND OBSTACLES CHANGED.
7. DELETED REMARK,ALL AIRSPEEDS EVALUATED, BUT 310 KTS IDENTIFIED DUE TO TYPE OF AIRCRAFT WHICH MAY USE THE HOLDING FIX.
8. ADDED REMARK, HOLDING PAT 1 USED FOR CAT A-D PROCEDURES, PAT 2 USED FOR PROCEDURES WITH CAT E.

DEVELOPED BY: **DATE:** 01/11/2010 **OFFICE:** AVN-120 **NAME:** JOSE ALFONSO (DAVID SAUER)

APPROVED BY: **DATE:** 04/27/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

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

QUALITY

RADIO FIX AND HOLDING DATA RECORD

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

INFO ONLY

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:

QUALITY ASSURED

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