Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 07/29/2011	Task #: 2011072922996902016	Request #: 20110729229969
Procedure: RNAV (RNP) Z RWY 31 R AMDT 2		Airport ID: KDFW	Airport: DALLAS/FORT WORTH INTL		Reimbursable #:
City: DALLAS-FORT WORTH	ST: TX	GPS #:		Estimated Chart Date: 03/07/2013	FICO #:
Fac ID:	Fac. Type: Proc P	Specialist: PABLO ORTIZ			

Procedure Review

P1

	Rec'd	Rel'd	Full Name	Comments
Lead:	04/18/2012	11/08/2012	JILL OLSON	
QA:	11/08/2012	11/08/2012	SCOTT BEARD	
Liaison:	11/08/2012		Spurlin	APPROVAL REQUEST

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

Pkg 1 of 3

DALLAS/FORT WORTH, TX DALLAS/FORT WORTH (KDFW) RNAV (RNP) Z RWY 31R, AMDT 2 ENROUTE-YES FC: 1.8.13 PUB 3.7.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): FIVIS-INT, REV 3; GACHO-INT, REV 7; SOLDO-INT, REV 9; TULOY-INT, REV 2; VANDE-INT, REV 9.
FLCK NOTE: 4D ACCURACY CODE EVAL REQUESTED, SEE 8260-9.

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

RNAV (RNP) Z RWY 31R
DALLAS-FORT WORTH INTL (DFW)

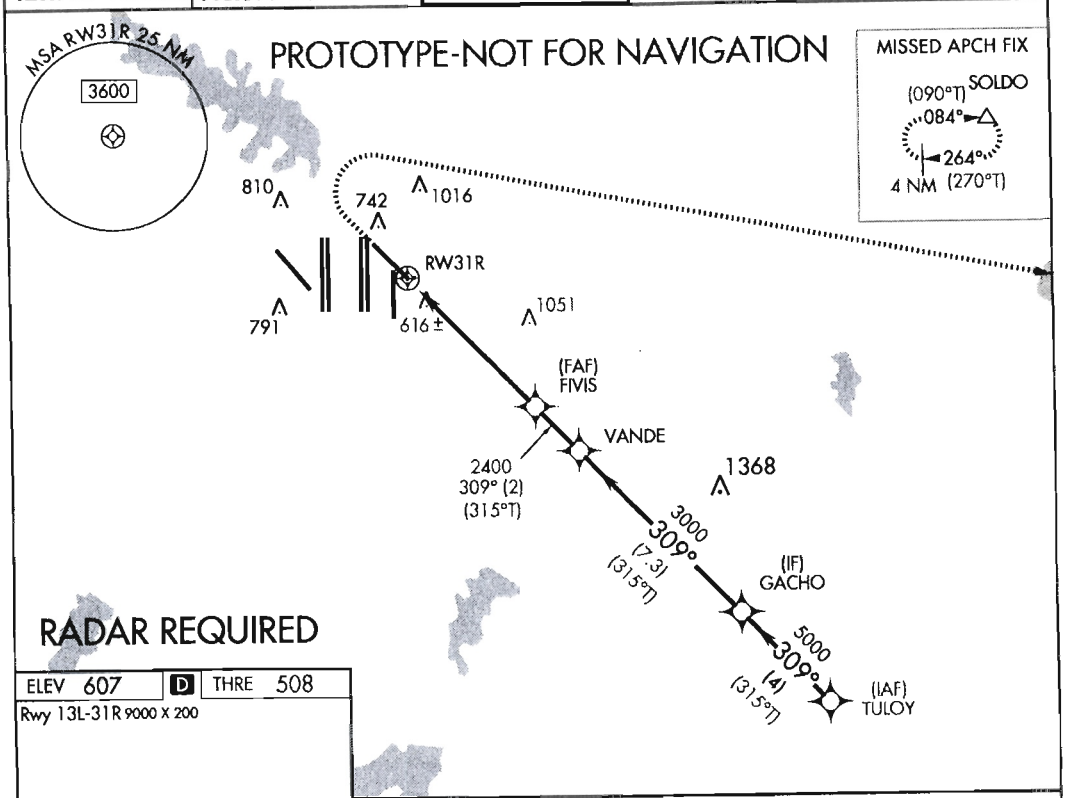
APP CRS	Rwy ldg	8375
309°	THRE	508
	Apt Elev	607

For uncompensated Baro-VNAV systems, procedure NA below -16°C (4°F) or above 54°C (130°F). When VGSI inop, RNP 0.30, RNP 0.23, RNP 0.14 procedure NA at night. For inop MALSR, increase RNP 0.30 all Cats visibility to 1½ mile, RNP 0.23 all Cats visibility to 1⅜ mile, RNP 0.14 all Cats visibility to RVR 5100. Simultaneous approach authorized with Rwy 31L. GPS required. Use of FD or AP providing RNAV track guidance required during simultaneouos operations.

MALSR

MISSED APPROACH: Climb to 1100, then climbing right turn to 3000 direct SOLDO and hold.

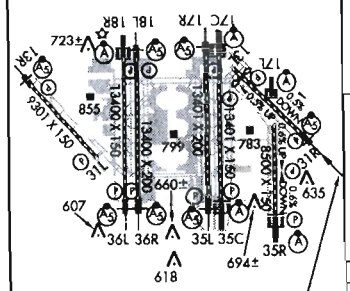
ATIS ARR	ATIS DEP	REGIONAL APP CON	DFW TOWER	GND CON	CLNC DEL
123.775	135.925	125.025 263.025 EAST 119.875 284.65 WEST	126.55 127.5 EAST 124.15 134.9 WEST	121.65 121.8 EAST 121.85 WEST	128.25



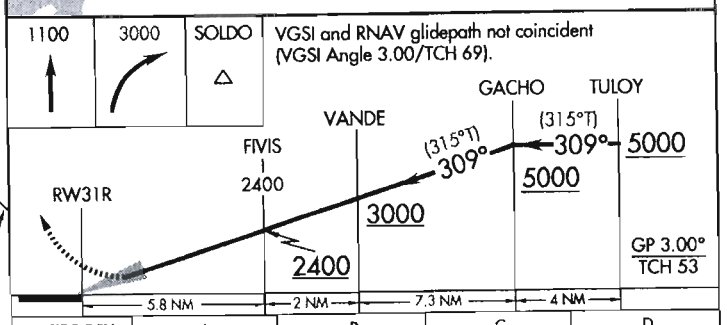
RADAR REQUIRED

ELEV 607 | D | THRE 508

Rwy 13L-31R 9000 X 200



HIRL all Rwys
REIL Rwys 13L and 31L
TDZ/CL all Rwys except 13L and 31L

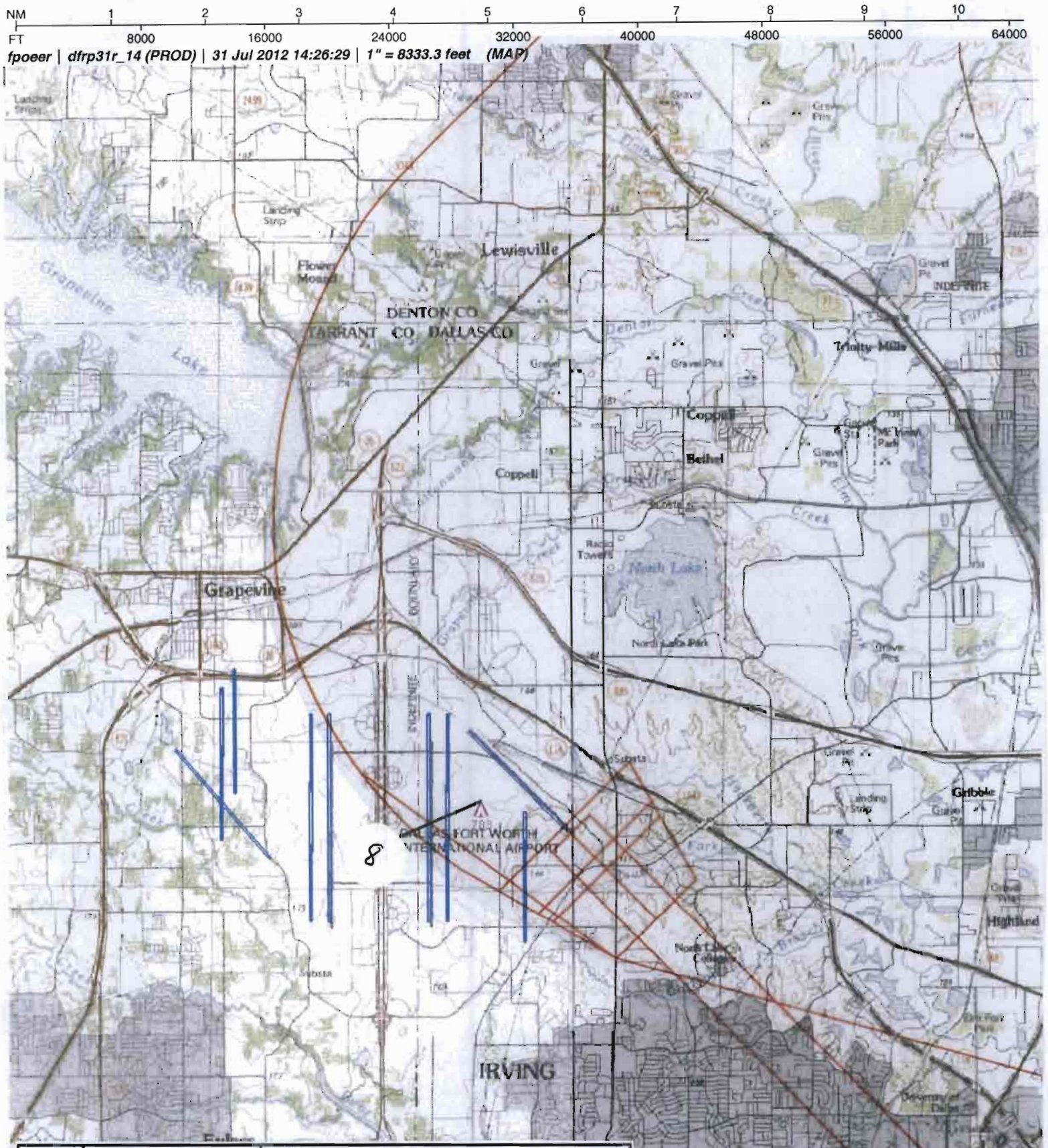


CATEGORY	A	B	C	D
RNP 0.14 DA	823/27 315 (300-⅝)			
RNP 0.23 DA	913/44 405 (400-⅞)			
RNP 0.30 DA	972/55 464 (400-1¼)			

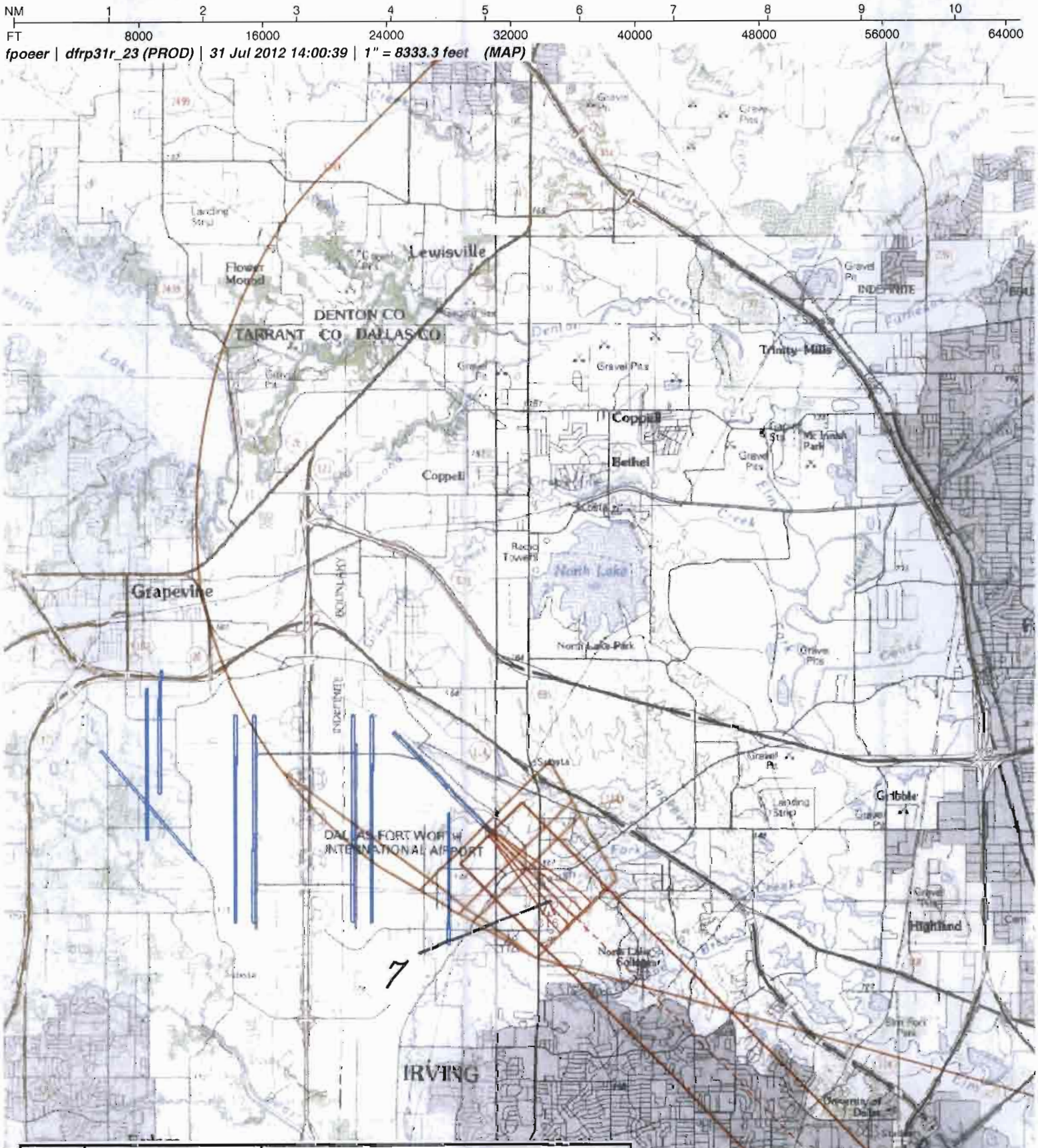
AUTHORIZATION REQUIRED

AUTOMATED AL-6039 RNAV (RNP) Z RWY 31R

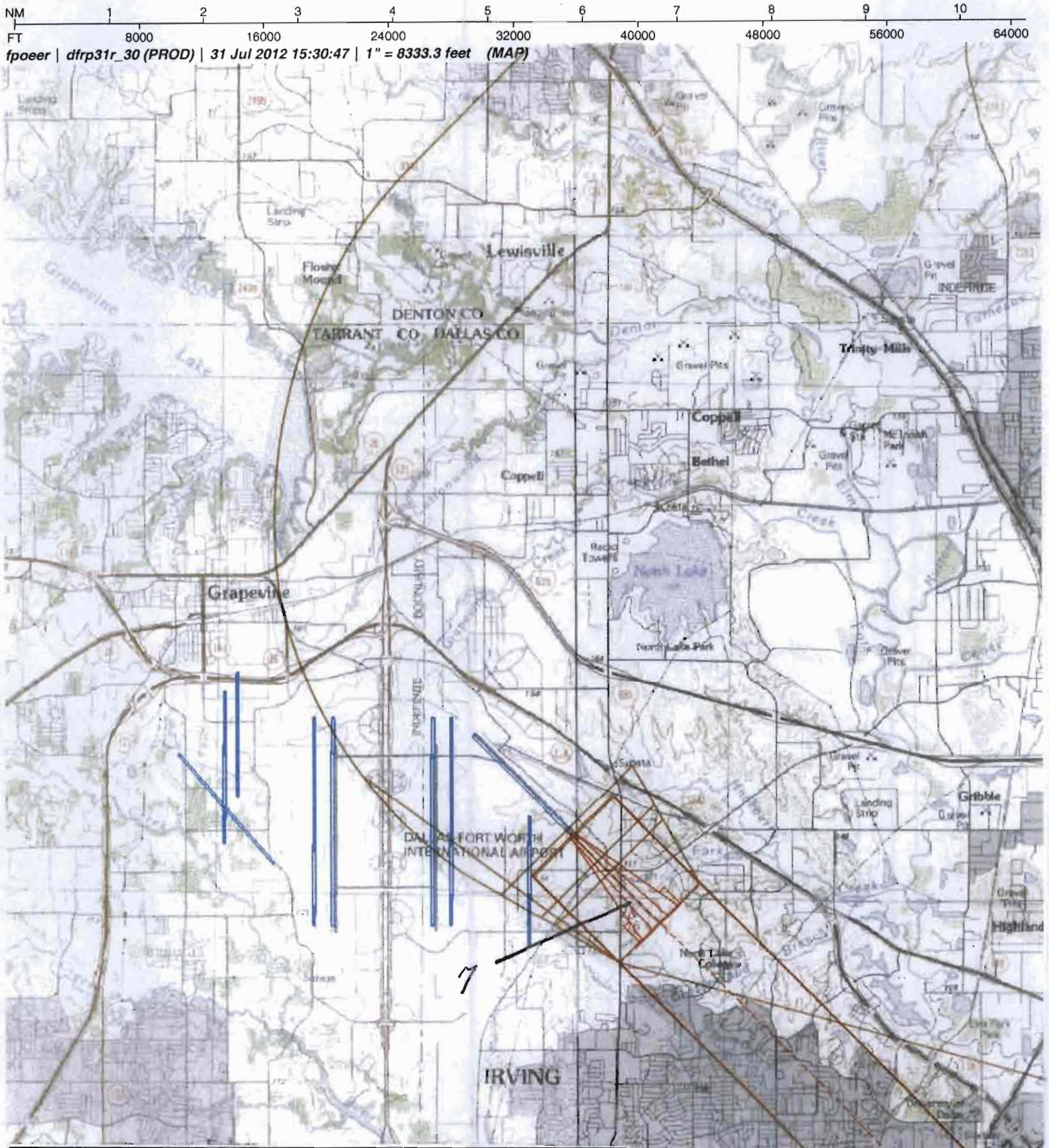
SC-2
07/09/2012
COMPILER: GM
REVIEWER:
DBL CHKR:
EFF DATE: FIG



Airport ID:	KDFW	No.	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	DALLAS/FORT WORTH INTL				
City:	DALLAS		RNP .14 FINAL		ASC
State:	TX	8.	MISSED ADJ	TOWER	783
Proc:	RNAV (RNP) Z RWY 31R				
Amdt:	2				
Scale:	1:100,000				



Airport ID:	KDFW	FM 9			
Apt Name:	DALLAS/FORT WORTH INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	DALLAS	7.	RNP .23 FINAL	TOWER	616
State:	TX				
Proc:	RNAV (RNP) Z RWY 31R				
Amdt:	2				
Scale:	1:100,000				



Airport ID:	KDFW	FM 9			
Apt Name:	DALLAS/FORT WORTH INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	DALLAS	7.	RNP .30 FINAL	TOWER	616
State:	TX				
Proc:	RNAV (RNP) Z RWY 31R				
Amdt:	2				
Scale:	1:100,000				

NM 7 14 21 28 35 42 49

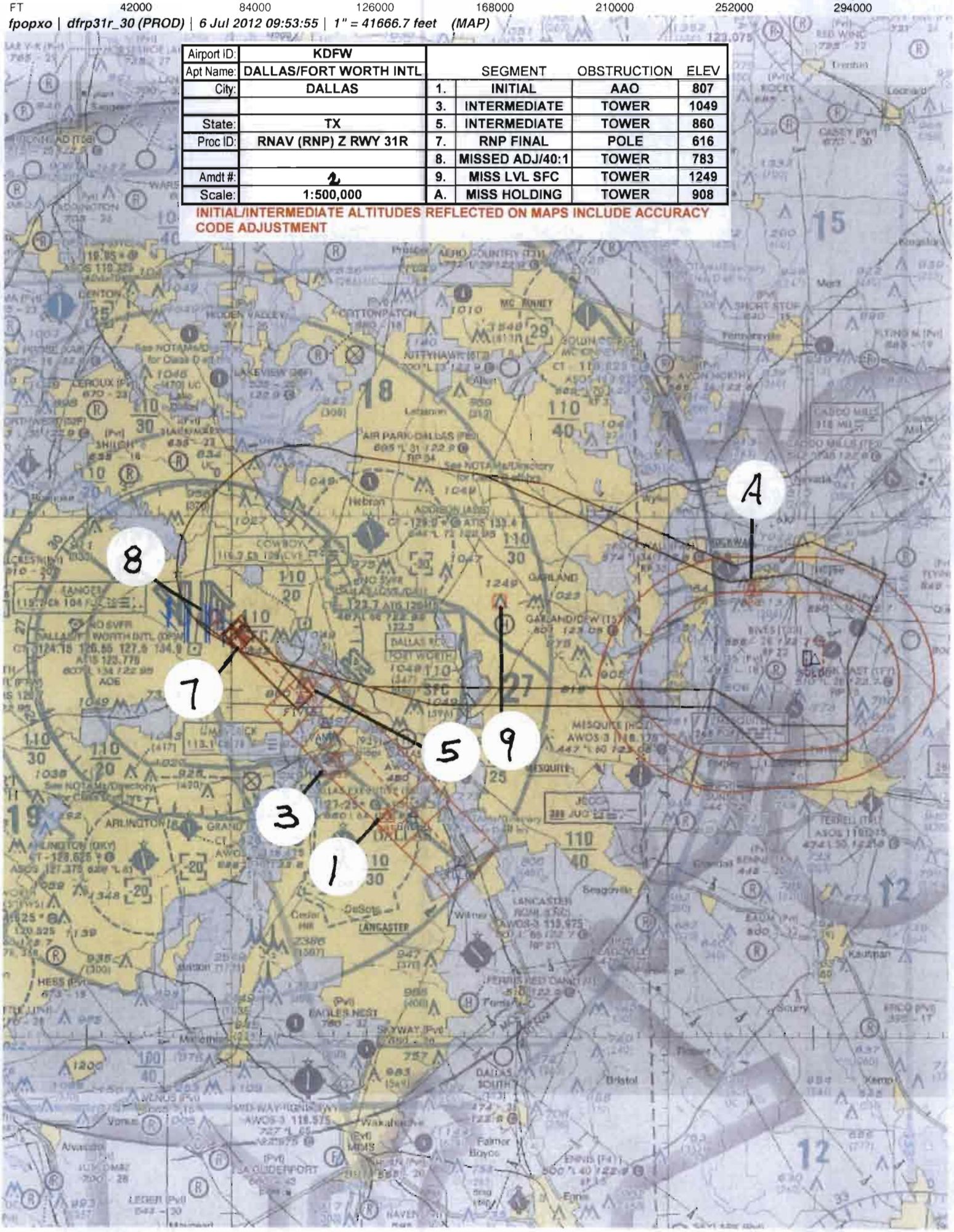
FT 42000 84000 126000 168000 210000 252000 294000

fpopxo | dfrp31r_30 (PROD) | 6 Jul 2012 09:53:55 | 1" = 41666.7 feet (MAP)

Airport ID:	KDFW
Apt Name:	DALLAS/FORT WORTH INTL
City:	DALLAS
State:	TX
Proc ID:	RNAV (RNP) Z RWY 31R
Amdt #:	2
Scale:	1:500,000

	SEGMENT	OBSTRUCTION	ELEV
1.	INITIAL	AAO	807
3.	INTERMEDIATE	TOWER	1049
5.	INTERMEDIATE	TOWER	860
7.	RNP FINAL	POLE	616
8.	MISSED ADJ/40:1	TOWER	783
9.	MISS LVL SFC	TOWER	1249
A.	MISS HOLDING	TOWER	908

INITIAL/INTERMEDIATE ALTITUDES REFLECTED ON MAPS INCLUDE ACCURACY CODE ADJUSTMENT



US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
TULOY (IAF)	GACHO (TF) (FB) (RNP 1.00)	309.42 / 4.00	5000
GACHO (IF)	VANDE (TF) (FB) (RNP 1.00)	309.39 / 7.27	3000
VANDE	FIVIS (TF) (FB) (RNP 1.00)	309.33 / 2.00	2400
FIVIS (FAF)	RW31R (MAP) (TF) (FO)	309.32 / 5.78	
RW31R (MAP)	*1100 MSL (CA)*	309.32	1100
1100 MSL	SOLDO (DF) (FO)		3000

MISSED APPROACH

MAP: DA

CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 DIRECT SOLDO AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 084.00 INBOUND.
CHART FAS OBST: 616 POLE 325249N/0965920W
DISTANCE TO THLD FROM 315 HATH: 0.82 NM.
ROUTE TYPE: A,H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
#TCH 560.9 MSL (DO NOT CHART)
CHART LOC RWY 31L

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT TULOY
3. FAC: 309.32 FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: TULOY 5000, GACHO 5000, VANDE 3000, FIVIS 2400
5. DIST TO THLD FROM OM: 5.78 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2400 GS ALT AT: FIVIS 2400 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: #52.8 34:1 IS CLEAR
8. MSA FROM: RW31R 3600

MAG VAR: 6E EPOCH YEAR: 2000

MINIMUMS

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

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.14 DA	823	*2700*	315	823	*2700*	315	823	*2700*	315	823	*2700*	315			
RNP 0.23 DA	913	*4400*	405	913	*4400*	405	913	*4400*	405	913	*4400*	405			
RNP 0.30 DA	972	5500	464	972	5500	464	972	5500	464	972	5500	464			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (4F) OR ABOVE 54C (130F).
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 1/2 MILE, RNP 0.23 ALL CATS VISIBILITY TO 1 3/8 MILE, RNP 0.14 ALL CATS VISIBILITY TO RVR 5100.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 31L.
(SEE FORM 8260-10)

CITY AND STATE	ELEVATION: 607 THRE: 508	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
DALLAS-FORT WORTH, TX	AIRPORT NAME: DALLAS/FORT WORTH INTL	RNAV	RNAV (RNP) Z RWY 31R, AMDT 2	AMDT: 1C
				DATED 09/22/2011

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, REGIONAL APP CON, DFW TOWER, AMGR

FLIGHT CHECKED BY		
NAME: ANTHONY D VALLERA	FIFO	DATE: 12/05/2012
DEVELOPED BY		
NAME: PABLO ORTIZ	FIFO AJV-353	DATE: 07/25/2012
APPROVED BY		
NAME: LARRY H STROUT MANAGER	FIFO AJV-353	DATE:

CHANGES:

1. UPDATED TERMINAL ROUTE GACHO TO VANDE DISTANCE 7.45 TO 7.27.
2. UPDATED TERMINAL ROUTE VANDE TO FIVIS COURSE AND DISTANCE 309.34/1.91 TO 309.33/2.00.
3. UPDATED TERMINAL ROUTE FIVIS TO RW31R DISTANCE 5.69 TO 5.78.
4. UPDATED DIST TO THLD FROM OM 5.69 TO 5.78.
5. CHARTED VISUAL OIS PENETRATION.
6. UPDATED ROUTE TYPE AND ROUTE TYPE QUALIFIER.
7. REMOVED RNP 0.16 AND 0.28 MINIMUMS AND ADDED RNP 0.14 AND RNP 0.23.
8. UPDATED FOR UNCOMPENSATED TEMPERATURE VALUES.
9. UPDATED INOPERATIVE MALSR NOTE.
10. UPDATED RNP 0.30 DA RVR 6000/HAT 449 ALL CATS TO RVR 5500/HATH 464 ALL CATS.
11. MISSED APPROACH ALTITUDE CHANGED FROM 5000 TO 3000.

REASONS:

1. NEW LOCATION OF VANDE.
2. NEW LOCATION OF VANDE AND FIVIS.
3, 4. NEW LOCATION OF FIVIS.
5. REQUIRED DOCUMENTATION.
6. CURRENT NEW CODES.
7. ALLOW FOR 50 FT DESCENT OR 1/4 VISIBILITY REDUCTION.
8. NO HISTORICAL WEATHER DATA AVAILABLE USED -30C ISA DEVIATION.
9. NEW MINIMUM VALUES.
10. CHANGED TDZE 523 TO THRE 508 AND NEW CRITERIA.
11. ATC REQUESTED.

03/18/2013. THIS IS A CORRECTED COPY OF THE PROCEDURE APPROVED ON 12/07/2012.

ON THE 8260-10 ARI PAGES 3 AND 4, REMOVED THE WORD "AMDT" FROM THE AMDT SECTION.

NOTES, (CONT.):
CHART NOTE: GPS REQUIRED.
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 607 THRE: 508	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
DALLAS-FORT WORTH, TX	AIRPORT NAME: DALLAS/FORT WORTH INTL	RNAV	RNAV (RNP) Z RWY 31R, AMDT 2	AMDT: 1C
				DATED: 09/22/2011

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:

QUALITY 2 CHECKED

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 - RNAV (RNP)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   FIVIS K40    C     N32493514W096551370                      E0039     NAR           FIVIS
        SUSAEAENRT   GACHO K40    C     N32425857W096473013                      E0038     NAR           GACHO
        SUSAEAENRT   SOLDO K40    C   L N32515500W096195632                      E0036     NAR           SOLDO
        SUSAEAENRT   TULOY K40    C     N32400715W096441028                      E0038     NAR           TULOY
        SUSAEAENRT   VANDE K40    C     N32480964W096533359                      E0039     NAR           VANDE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDFWK4ADFW     0     134YHN32534858W097021679E006000607         1800018000C    MNAR    DALLAS/FORT WORTH INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDFWK4FH31RZ ATULOY 010TULOYK4EA0E  A    IF                                + 05000     18000                A FS
        SUSAP KDFWK4FH31RZ ATULOY 020GACHOK4EA0EE B 010TF                                + 05000                          A FS
        SUSAP KDFWK4FH31RZ H      010GACHOK4EA0E  I    IF                                + 05000     18000                A FS
        SUSAP KDFWK4FH31RZ H      011VANDEK4EA0E S  010TF                                + 03000                          A FS
        SUSAP KDFWK4FH31RZ H      020FIVISK4EA1E  F 010TF                                + 02400                 RW31R K4PGA FS
        SUSAP KDFWK4FH31RZ H      020FIVISK4EA2W                                             A031A232A142                     FS
        SUSAP KDFWK4FH31RZ H      030RW31RK4PG0GY M 031TF                                  00561             -300           A FS
        SUSAP KDFWK4FH31RZ H      040         0  M     CA                     3093       + 01100                          A FS
        SUSAP KDFWK4FH31RZ H      050SOLDOK4EA0EY  R   DF                                + 03000                          A FS
        SUSAP KDFWK4FH31RZ H      060SOLDOK4EA0EE  R   HM                    08400040    + 03000                          A FS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDFWK4GRW31R   0090003093 N32534193W097000304+0500    +01280005080000532 00IIRRA1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDFWK4SRW31RK4PG               0   18018003625                                                                        M
```

CITY AND STATE	ELEVATION: 607 THRE: 508	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DALLAS-FORT WORTH, TX	AIRPORT NAME: DALLAS/FORT WORTH INTL	RNAV	RNAV (RNP) Z RWY 31R, AMDT 2	AMDT: 1C
				DATED: 09/22/2011

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	TULOY	TULOY	010	IAF	IF		FB				AA 05000	
	TULOY	GACHO	020		TF		FB	1.0			AA 05000	
		GACHO	010	FACF	IF		FB				AA 05000	
		VANDE	011	SDF	TF		FB	1.0			AA 03000	
		FIVIS	020	FAF	TF		FB	1.0			AA 02400	
		RW31R	030	MAP	TF		FO	0.3			AT 00561	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		309.3(315.3T)		AA 01100	
	SOLDO	050		DF	R	FO				AA 03000	
	SOLDO	060		HM	R	FO		084.0(090.0T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	FIVIS	N324935.14	W0965513.70	N3249.586	W09655.228
	GACHO	N324258.57	W0964730.13	N3242.976	W09647.502
	SOLDO	N325155.00	W0961956.32	N3251.917	W09619.939
	TULOY	N324007.15	W0964410.28	N3240.119	W09644.171
	VANDE	N324809.64	W0965333.59	N3248.161	W09653.560
	RW31R	N325341.93	W0970003.04	N3253.699	W09700.051

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW31R	00508	53

CITY AND STATE	ELEVATION: 607 THRE: 508	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DALLAS-FORT WORTH, TX	AIRPORT NAME: DALLAS/FORT WORTH INTL	RNAV	RNAV (RNP) Z RWY 31R, AMDT 2	AMDT: 1C
				DATED: 09/22/2011

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.
INITIAL	TULOY	GACHO	1. AAO	324224.00N/0964918.00W	807 (4E)	1000	AC98 AT3095	5000
(RNP 1.00)			2. TERRAIN	323924.00N/0964639.00W	594 (600)		AS1500	2100
INTERMEDIATE:	GACHO	VANDE	3. TOWER (48-001892)	324536.00N/0965248.00W	1049 (3D)	500	AC50 AT1401	3000
(RNP 1.00)			4. TERRAIN	324412.00N/0965218.00W	634 (600)		AS1500	2100
INTERMEDIATE: *STEPDOWN*	VANDE	FIVIS	5. TOWER (48-001725)	324954.35N/0965445.15W	860 (2C)	500	AC20 AT1020	2400
(RNP 1.00)			6. TERRAIN	324954.00N/0965433.00W	506 (500)		AS1500	2000
FINAL: RNP 0.30	FIVIS	RW31R	7. POLE (48-020471)	325249.10N/0965920.10W	616 (4D)	21.68:1	XP28 AC50	972/464
FINAL: RNP 0.23	FIVIS	RW31R	7. POLE (48-020471)	325249.10N/0965920.10W	616 (4D)	21.68:1	AC50	913/405
FINAL: RNP 0.14	FIVIS	RW31R				ASC	MA65	823/315
MISSED APPROACH	*DA*	*RW31R*				*ASC*		
(RNP 0.14-1.00)		*40:1*						
MISSED APPROACH	*DA*	*RW31R*	*7. POLE (48-020471)*	*325249.10N/0965920.10W*	*616 (4D)*	*ASC*		
(RNP 0.23-1.00)		*40:1*						
MISSED APPROACH	*DA*	*RW31R*	*7. POLE (48-020471)*	*325249.10N/0965920.10W*	*616 (4D)*	*ASC*		
(RNP 0.30-1.00)		*40:1*						
3. MISSED APPROACH — MAP:	DA / DA / DA	SOLDO	8. TOWER (48-009251)	325351.00N/0970108.00W	783 (1A)	ASC	AC3	3000
			9. TOWER (48-004991)	325404.00N/0964114.00W	1249 (1A)	1000	AC3	2300
ELEV:	811/752/662		10. TERRAIN	330133.00N/0964639.00W	762 (800)		AS1500	2300

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: RW31R

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (48-008489)	168/ 18.7	2549 (2C)	3600					

FINAL 2 CHECKED

CITY AND STATE	ELEVATION: 607 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
DALLAS-FORT WORTH, TX	DALLAS/FORT WORTH INTL	RNAV	RNAV (RNP) Z RWY 31R, AMDT 2	ASW

PART B - SUPPLEMENTAL DATA

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

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

5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 18R, 35R, 35C, 17L, 17C
		(S) SALS
	X	MALSR 36R, 17R, 35L, 36L, 18L, 31R, 13R
	X	HIRL 13L, 16, 18R, 35R, 36R, 35C, 17R, 35L, 36L, 34, 17L, 18L, 31L, 31R, 13R, 17C
		MIRL
	X	REIL 13L, 31L
	X	TDZ 18R, 35R, 36R, 35C, 17R, 35L, 36L, 17L, 18L, 31R, 13R, 17C
	X	C/L 13L, 18R, 35R, 36R, 35C, 17R, 35L, 36L, 17L, 18L, 31L, 31R, 13R, 17C
	X	OTHER (SPECIFY) PAPI-4R 35R PAPI-2R 35C PAPI-4L 13L, 18R, 36R, 17R, 35L, 36L, 17L, 18L, 31L, 31R, 13R, 17C

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 18R, 35R, 36R, 35C, 17R, 34L, 35L, 36L, 17L, 18L, 16R, 31R, 13R, 17C
	INSTRUMENT	NPI-G 13L, 31L
7. RUNWAY VISUAL RANGE	APPROACH	13L, 18R, 35R, 36R, 35C, 17R, 35L, 36L, 17L, 18L, 31L, 31R, 13R, 17C
	MIDFIELD	13L, 18R, 35R, 36R, 35C, 17R, 35L, 36L, 17L, 18L, 31R, 17C
	ROLL OUT	13L, 18R, 35R, 36R, 35C, 17R, 35L, 36L, 17L, 18L, 31L, 31R, 13R, 17C

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 508.1
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 52.8

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

10. WAIVERS: NONE

PART D - PREPARED BY: PABLO ORTIZ	DATE: 07/25/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

SEE ATTACHED AIRSPACE LETTER.

AUTHORIZATION REQUIRED (AR). FAAO 8260.52 CRITERIA USED

BARO-VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F)
ACT:-16C
DELTA ISA LOW: -29.80C

FINAL APPROACH AND MINIMUMS DERIVED FROM IPDS BUILD

MISSED APPROACH BUILT IAW 8260.54A (IPDS BUILT)

VEB ROC (0.30 HIGHER VALUE) APPLIED/USED

VEB DATA: SEE ATTACHED SPREADSHEET

KDFW ASOS ON SERVICE A: 24 HRS

NO HISTORICAL WEATHER DATA AVAILABLE. AVERAGE COLD TEMPERATURE BASED ON STANDARD -30C ISA DEVIATION

VEGETATION WITHIN 50,000 FT 0 FT PER CENTRAL FPT

NO BACKUP ALTIMETER DATA ADDED, AIRPORT HAS REDUNDANT WEATHER SOURCING

RADAR REQUIRED FOR PROCEDURE ENTRY DEVELOPED PER ATC REQUEST. INITIAL PER MVA.

VGSI DATA: 3.00/68.90

ORDER 8260.52 PARA 3.6, RNP VISUAL OIS BUFFER
PENETRATIONS:
616 POLE (48-020471) 325249.10N/0965920.10W (46.86)

#7 REQUEST FLIGHT CHECK TO 4D ACCURACY CODE.

XP - 28 TO MAINTAIN CURRENT DA

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FIVIS **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 324935.14N/0965513.70W **TYPE:** WP, RADAR, 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	DALLAS-FORT WORTH	I-RRA	LOC/DME		131.28	135.28	7.32	7.32	44505	2400	5000

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

REMARKS:
DME STATION LOCATED AT 325446.09N/0970122.58W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	CONVERGING ILS RWY 31R	1		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS OR LOC RWY 31R	1		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (GPS) Y RWY 31R			KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (RNP) Z RWY 31R			KDFW	DALLAS-FORT WORTH	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
LAT/LONG CHANGED FROM 324938.98N/0965518.20W TO 324935.14N/0965513.70W. FIX MOVED 545.97 FT SE.
FAC 1 - DME AND DIST FROM FAC CHANGED FROM 7.23 TO 7.32.
FAC 1 - 43924 FEET CHANGED TO 44505.

DEVELOPED BY: **DATE:** 05/04/2012 **OFFICE:** AJV-353 **NAME:** DEANNA FIELDS

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: DFW ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GACHO **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 324258.57N/0964730.13W **TYPE:** WP, RADAR, 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	DALLAS-FORT WORTH	I-RRA	LOC/DME		131.28	135.28	16.59	16.59		5000	5100

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

REMARKS:
DME STATION LOCATED AT 325446.09N/0970122.58W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	CONVERGING ILS RWY 31R	1		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS OR LOC RWY 31R	1		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (GPS) Y RWY 31R			KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (RNP) Z RWY 31R			KDFW	DALLAS-FORT WORTH	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 03/10/2011

REASON FOR REVISION:
CHANGED FAC 1 MAG BEARING TO 131.28 DUE TO FAC MAGVAR UPDATE.
ADDED DIST FROM FAC IN NM FOR FAC 1.
DELETED FAC 2 FROM FIX MAKE-UP.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/02/2010 **OFFICE:** AVN-120 **NAME:** JOSE ALFONSO (LONNIE EVERHART)

APPROVED BY: **DATE:** 01/19/2011 **OFFICE:** AVN-120 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: DFW ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SOLDO **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 325155.00N/0961956.32W **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	FEET	MRA	MAA
1	MAVERICK	TTT	VOR/DME	H	084.18	090.18	35.79	35.79		3000	17500
2	BONHAM	BYP	VORTAC	H	181.03	187.03		40.56		3500	17500
3	COWBOY	CVE	VOR/DME	H	086.82	092.82	28.92	28.92		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BYP	VORTAC	R-181	41	3500	15200

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	W	TTT	VOR/DME	084.18	084.18	R	1	-	3000	14000	6	12
2	W		WP	264.00	084.00	R		4	3000	14000	5	11
3	SW		WP	232.86	052.86	R		4	3000	14000	5	11
4	W	CVE	VOR/DME	086.82	086.82	R	1		3000	14000	6	12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (48-008484)	330201.00N/0960945.00W	1039	5D
1	200	TOWER (48-001261)	325532.00N/0962417.00W	908	5D
2	200	TOWER (48-001261)	325532.00N/0962417.00W	908	5D
3	200	TOWER (48-009837)	325248.31N/0962653.69W	851	1A
4	200	TOWER (48-001261)	325532.00N/0962417.00W	908	5D

HOLDING RESTRICTIONS:
VOR/DME HOLDING LIMITED TO ESTABLISHED PATTERN.
UNPLANNED RNAV HOLDING AUTHORIZED AT OR ABOVE 5000.

REMARKS:
MAVERICK (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
DME REQUIRED FOR HOLDING BELOW 3500 FOR PATTERNS 1 AND 4.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DALLAS	1, 2		KGKY	ARLINGTON	TX (US)
DP	GARLAND	1, 2		KGKY	ARLINGTON	TX (US)
DP	HUBBARD	1, 2		KGKY	ARLINGTON	TX (US)
DP	WYLIE	1, 2		KGKY	ARLINGTON	TX (US)
DP	DALLAS	1, 2		KADS	DALLAS	TX (US)
DP	GARLAND	1, 2		KADS	DALLAS	TX (US)
DP	HUBBARD	1, 2		KADS	DALLAS	TX (US)
DP	WYLIE	1, 2		KADS	DALLAS	TX (US)
DP	BACHMAN	1, 2		KDAL	DALLAS	TX (US)
DP	DALLAS	1, 2		KDAL	DALLAS	TX (US)
DP	GARLAND	1, 2		KDAL	DALLAS	TX (US)
DP	HUBBARD	1, 2		KDAL	DALLAS	TX (US)
DP	WYLIE	1, 2		KDAL	DALLAS	TX (US)
DP	DALLAS	1, 2		KRBD	DALLAS	TX (US)
DP	GARLAND	1, 2		KRBD	DALLAS	TX (US)
DP	HUBBARD	1, 2		KRBD	DALLAS	TX (US)
DP	WYLIE	1, 2		KRBD	DALLAS	TX (US)
DP	DALLAS	1, 2		KTKI	DALLAS	TX (US)
DP	GARLAND	1, 2		KTKI	DALLAS	TX (US)
DP	HUBBARD	1, 2		KTKI	DALLAS	TX (US)
DP	CLARE (RNAV)			KDFW	DALLAS-FORT WORTH	TX (US)
DP	DALLAS	1, 2		KDFW	DALLAS-FORT WORTH	TX (US)
DP	GARLAND	1, 2		KDFW	DALLAS-FORT WORTH	TX (US)
DP	GARLAND	1, 2		KDFW	DALLAS-FORT WORTH	TX (US)
DP	HUBBARD	1, 2		KDFW	DALLAS-FORT WORTH	TX (US)
DP	NOBLY			KDFW	DALLAS-FORT WORTH	TX (US)
DP	SOLDO (RNAV)			KDFW	DALLAS-FORT WORTH	TX (US)
DP	TRISS (RNAV)			KDFW	DALLAS-FORT WORTH	TX (US)
DP	WYLIE	1, 2		KDFW	DALLAS-FORT WORTH	TX (US)
DP	DALLAS	1, 2		KDTO	DENTON	TX (US)
DP	GARLAND	1, 2		KDTO	DENTON	TX (US)
DP	HUBBARD	1, 2		KDTO	DENTON	TX (US)
DP	DALLAS	1, 2		KAFW	FORT WORTH	TX (US)
DP	GARLAND	1, 2		KAFW	FORT WORTH	TX (US)
DP	HUBBARD	1, 2		KAFW	FORT WORTH	TX (US)

QUALITY CHECKED 2

DP	WYLIE	1, 2		KAFW	FORT WORTH	TX (US)
DP	DALLAS	1, 2		KFTW	FORT WORTH	TX (US)
DP	GARLAND	1, 2		KFTW	FORT WORTH	TX (US)
DP	HUBBARD	1, 2		KFTW	FORT WORTH	TX (US)
DP	WYLIE	1, 2		KFTW	FORT WORTH	TX (US)
DP	DALLAS	1, 2		KFWS	FORT WORTH	TX (US)
DP	GARLAND	1, 2		KFWS	FORT WORTH	TX (US)
DP	HUBBARD	1, 2		KFWS	FORT WORTH	TX (US)
DP	DALLAS	1, 2		KNFW	FORT WORTH	TX (US)
DP	GARLAND	1, 2		KNFW	FORT WORTH	TX (US)
DP	HUBBARD	1, 2		KNFW	FORT WORTH	TX (US)
DP	DALLAS	1, 2		KGPM	GRAND PRAIRIE	TX (US)
DP	GARLAND	1, 2		KGPM	GRAND PRAIRIE	TX (US)
DP	HUBBARD	1, 2		KGPM	GRAND PRAIRIE	TX (US)
DP	DALLAS	1, 2		KLNC	LANCASTER	TX (US)
DP	GARLAND	1, 2		KLNC	LANCASTER	TX (US)
DP	HUBBARD	1, 2		KLNC	LANCASTER	TX (US)
DP	DALLAS	1, 2		KHQZ	MESQUITE	TX (US)
DP	GARLAND	1, 2		KHQZ	MESQUITE	TX (US)
DP	HUBBARD	1, 2		KHQZ	MESQUITE	TX (US)
IAP	CONVERGING ILS RWY 31R	1, 3	1, 4	KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS OR LOC RWY 31R	1, 3	1, 4	KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (GPS) Y RWY 31R		2	KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (RNP) Z RWY 31R		2	KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (GPS) RWY 31		3	KLNC	LANCASTER	TX (US)

REQUIRED CHARTING: DP, IAP, AREA, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
FAC 1&3 MRA CHANGED FROM 3500 TO 3000.
PAT 1 MIN HOLDING ALTITUDE CHANGED FROM 5000 TO 3000.
PAT 1 MIN HOLDING TEMPLATED CHANGED FROM 7 TO 6.
PAT 1 HOLDING CONTROLLING OBSTACLE DATA UPDATED.
PAT 2 MIN HOLDING ALTITUDE CHANGED FROM 5000 TO 3000.
PAT 2 MIN HOLDING TEMPLATED CHANGED FROM 6 TO 5.
PAT 3 HOLDING OBSTACLE DATA ACCURACY CODE CHANGED FROM 4D TO 5D.
PAT 4 ADDED.
"REMARKS" MAVERICK (FAC 1) USED TO ESTABLISH FIX COORDINATES ADDED.

DEVELOPED BY: **DATE:** 05/04/2012 **OFFICE:** AJV-353 **NAME:** DEANNA FIELDS

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TULOY **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 324007.15N/0964410.28W **TYPE:** WP, RADAR, 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	DALLAS-FORT WORTH	I-RRA	LOC/DME		131.28	135.28	20.59	20.60		2400	5100

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-RRA	LOC/DME	R-131	21	2400	5100

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

REMARKS:
I-RRA DME COORDINATES: 325446.09N/0970122.58W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	CONVERGING ILS RWY 31R	1		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS OR LOC RWY 31R	1		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (GPS) Y RWY 31R			KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (RNP) Z RWY 31R			KDFW	DALLAS-FORT WORTH	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
ADDED ESV INFORMATION.
FAC 1 DIST FROM FAC CHANGED FROM 20.59 TO 20.60.
FAC 1 MRA CHANGED 5000 TO 2400.
REMARKS - I_RRA DME COORDINATES: 325446.09N/0970122.58W CHANGED TO I-RRA DME COORDINATES: 325446.09N/0970122.58W.

DEVELOPED BY: **DATE:** 05/07/2012 **OFFICE:** AJV-353 **NAME:** DEANNA FIELDS

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZFW
ATC FACILITY: DFW ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VANDE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 324809.64N/0965333.59W **TYPE:** WP, RADAR, 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	DALLAS-FORT WORTH	I-RRA	LOC/DME		131.28	135.28	9.32	9.32		3000	5000

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

REMARKS:
I_RRA DME COORDINATES: 325446.09N/0970122.58W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	CONVERGING ILS RWY 31R	1		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS OR LOC RWY 31R	1		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (GPS) Y RWY 31R			KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (RNP) Z RWY 31R			KDFW	DALLAS-FORT WORTH	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
LAT/LONG CHANGED FROM 324817.28N/0965342.55W TO 324809.64N/0965333.59W. FIX MOVED 1083.81 FT SE.
FAC 1 - DME AND DIST FROM FAC CHANGED FROM 9.14 TO 9.31.

DEVELOPED BY: **DATE:** 05/04/2012 **OFFICE:** AJV-353 **NAME:** DEANNA FIELDS

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZFW
ATC FACILITY: DFW ATCT
OTHER:

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **DALLAS-FORT WORTH** STATE: **TX**

AIRPORT NAME: **DALLAS/FORT WORTH INTL** ID: **KDFW**

PROCEDURE: **RNAV (RNP) Z RWY 31R** AMDT: **2**

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 **3.15**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **315.32**
4. High terrain in **FINAL** segment containing 1000' point **564**
5. Distance from **THLD** to 1500' point **4.72**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.20**
7. True Course of **FINAL** segment containing 1500' point **315.32**
8. High terrain in **FINAL** segment containing 1500' point **564**
9. Threshold Coordinates (if straight-in) ... **325341.93N / 0970003.04W**
10. ARP coordinates ..... **325348.58N / 0970216.79W**
11. Runway approach end and distance furthest from ARP.....RWY **13R**
    (Click to Select)
    Distance **2.40** NM
12. FAF Coordinates ..... **324935.14N / 0965513.70W**
    (Click to Select)

REMARKS: Approach/Drawing attached.

Federal Aviation Administration

Memorandum

Date:

To: Gary Powell, Manager, Flight Technologies and Procedures Division
THRU: Danny E. Hamilton, Manager, Flight Procedure Implementation & Oversight Branch

From: John Bickerstaff Manager, Production Integration Team AJV-341

Subject: **ACTION:** Approval Request

RNAV (RNP) Z RWY 31R, Dallas/Fort Worth, TX (KDFW)

Obstacles penetrate Visual OIS, Order 8260.52, paragraph 3.6.

Request approval for the following obstacles that penetrate the visual OIS X and Y values are relative to runway 31R LTP and runway centerline extended. Penetration values are based on the most-adverse application of the assigned accuracy value (Horizontal AC/Vertical AC) associated with each obstacle.

Obstacle	H/V AC	MSL(ft)	X(ft)	Y(ft)	Penetration(ft)
Pole	250/50	616	+6380	-1154	46.86

Please respond by 30 OCTOBER 2012.

Attachment

PFAF Calculations

Min Intermediate Segment Alt (a):	
LTP MSL Elevation (b):	
TCH:	
Glidepath Angle (Θ):	
Distance from LTP to PFAF (D):	**0.00**
	0.00 NM
LTP/FTP Latitude:	
LTP/FTP Longitude:	
True RWY Bearing/True Course:	
PFAF Latitude:	**000° 00' 00.00"**
PFAF Longitude:	**000° 00' 00.00"**

Latitude/Longitude valid for straight segment only

VEB OCS Origin & Slope

Intermediate Segment Altitude:	2400
LTP Elevation:	508.1
Glidepath Angle:	3
TCH:	52.8
RNP Value:	0.30
Δ ISA:	-29.8
Straight In Segment	
(*Wingspan =<262*) LTP to Origin:	**3,871.43'**
(*Wingspan =<136*) LTP to Origin:	**3,654.61'**
OCS Slope Ratio:	**21.68 : 1**
RF Turn Segment | Bank angle:	**11.23°**
(*Wingspan =<262*) LTP to Origin:	**3,882.53'**
(*Wingspan =<136*) LTP to Origin:	**3,654.61'**
OCS Slope Ratio:	**21.68 : 1**

Version 2.0

VEB Temperature Limits

Glidepath Angle:		
Max Glidepath Angle:		
PFAF Elevation:		
LTP Elevation:		
ACT:	-16.00°C	
Min Glidepath Angle	**#DIV/0!**	
NA Below	**#DIV/0!**	**#DIV/0!**
NA Above	**#DIV/0!**	**#DIV/0!**

Intermediate Segment VEB ROC

Glidepath Angle	3.00°
LTP MSL Elevation	508.10
TCH (ft)	52.80
OCS Slope	21.69
OCS Origin Distance (ft) *(measured along-track from LTP)*	3,871.43
Obstacle Distance (ft) *(measured along-track from LTP)*	35,420.13
VEB ROC *(at obstacle)*	**461**
Glidepath MSL altitude at Obstacle	2,447.25
OCS MSL altitude at Obstacle	1,986.48