

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
HUBBARD	ONE	HUBB1.TTT	NINE	03/31/2016	<b>30 JAN 2020</b>

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**DP ROUTE DESCRIPTION:**

**THIS IS A CORRECTED COPY OF THIS PROCEDURE PREVIOUSLY PUBLISHED IN NFDD #218.**

**DALLAS-FORT WORTH INTL**

TAKEOFF RWY 13L: CLIMB ON HEADING 129.28, EXPECT VECTOR TO APPROPRIATE ROUTE, THENCE...

TAKEOFF RWY 13R, 17C/L/R, 18L/R: CLIMB ON HEADING 130.00, EXPECT VECTOR TO APPROPRIATE ROUTE, THENCE...

TAKEOFF RWY 31L/R, 35C/L, 36L/R: CLIMB ON HEADING 030.00, EXPECT VECTOR TO APPROPRIATE ROUTE, THENCE...

...MAINTAIN 2000 OR AS ASSIGNED BY ATC, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**DALLAS LOVE FIELD**

ALL AIRCRAFT DEPARTING DAL MUST CONTACT CLEARANCE DELIVERY FOR DEPARTURE INSTRUCTIONS.

TAKEOFF RWY 13L/R: CLIMB ON HEADING 103.00, EXPECT VECTORS TO APPROPRIATE ROUTE. MAINTAIN 3000 AND EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TAKEOFF RWY 31L/R: CLIMB ON HEADING 333.00, EXPECT VECTORS TO APPROPRIATE ROUTE. MAINTAIN 2000 AND EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**DALLAS EXECUTIVE**

TAKEOFF RWY 13: CLIMB ON HEADING 129.08 TO 1800 BEFORE TURNING WESTBOUND.

TAKEOFF RWY 17: CLIMB ON HEADING 174.13 TO 2600 BEFORE TURNING WESTBOUND.

TAKEOFF RWY 31: CLIMB ON HEADING 309.09 TO 1500 BEFORE TURNING SOUTHBOUND.

TAKEOFF RWY 35: CLIMB ON HEADING 354.13 TO 1400 BEFORE TURNING SOUTHBOUND.

**FORT WORTH ALLIANCE**

TAKEOFF RWY 16R: CLIMB ON HEADING 166.21 TO 1100 BEFORE TURNING RIGHT.

**FORT WORTH MEACHAM INTL** TAKEOFF RWY 16: CLIMB ON HEADING 163.90 TO 1600 BEFORE PROCEEDING ON COURSE. TAKEOFF RWY 17: CLIMB ON HEADING 163.90 TO 1600 BEFORE PROCEEDING ON COURSE. .

**FORT WORTH SPINKS** TAKEOFF RWY 17R: CLIMB HEADING 173.11 TO 1200 BEFORE TURNING RIGHT.

**ARLINGTON MUNI**

TAKEOFF RWY 16: CLIMB ON HEADING 162.02 TO 2500 BEFORE TURNING LEFT.

TAKEOFF RWY 34: CLIMB ON HEADING 342.02 TO 1400 BEFORE TURNING SOUTHEAST BOUND.

**GRAND PRAIRIE MUNI**

TAKEOFF RWY 17: CLIMB ON HEADING 189.34 TO 2500 BEFORE PROCEEDING ON COURSE.

**LANCASTER RGNL**

TAKEOFF RWY 31: CLIMB ON HEADING 314.32 TO 1800 BEFORE TURNING LEFT.

**DECATUR MUNI:**

TAKEOFF RWY 17: CLIMB ON HEADING 163.45 TO 1700 BEFORE PROCEEDING NORTH.

**BOURLAND FIELD**

TAKEOFF RWY 17: CLIMB ON HEADING 165.44 TO 1400 BEFORE TURNING RIGHT.

**MID-WAY RGNL**

TAKEOFF RWY 18: CLIMB ON HEADING 177.98 TO 1700 BEFORE PROCEEDING NORTHBOUND.

TAKEOFF RWY 36: CLIMB ON HEADING 012.98 TO 2700 BEFORE TURNING LEFT.

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**PARKER COUNTY**

TAKEOFF RWY 35: CLIMB ON HEADING 355.37 TO 1600 BEFORE TURNING LEFT.

DEPARTING ADDISON, DALLAS EXECUTIVE, MCKINNEY NATIONAL, FORT WORTH ALLIANCE, FORT WORTH MEACHAM INTL, FORT WORTH SPINKS, FORT WORTH NAS JRB (CARSWELL FIELD), ARLINGTON MUNI, DENTON ENTERPRISE, GRAND PRAIRIE MUNI, LANCASTER RGNL, MESQUITE METRO, CLEBURNE RGNL, DECATUR MUNI, ENNIS MUNI, BOURLAND FIELD, MID-WAY RGNL, RALPH M. HALL/ROCKWELL MUNI, PARKER COUNTY: WHEN ENTERING CONTROLLED AIRSPACE, FLY ASSIGNED HEADING AND ALTITUDE, EXPECT VECTOR TO APPROPRIATE ROUTE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
GREGG COUNTY	HUBB1.GGG	TTT VOR/DME	CLARE	094.06 (TTT R-094)	36.40	3500		
		CLARE	ROCKK	094.06 (TTT R-094)	22.45	3500		
		ROCKK	GGG VORTAC	099.14 (GGG R279)	60.25	3500		
PARIS	HUBB1.PRX	TTT VOR/DME	NOBLY	064.14 (TTT R-064)	37.94	5000		
		NOBLY	ECKEY	064.14 (TTT R-064)	24.29	5000		
		ECKEY	PRX VOR/DME	041.02 (PRX R-221)	29.08	5000		
QUITMAN	HUBB1.UIM	TTT VOR/DME	SOLDO	084.18 (TTT R-084)	35.79	5000		
		SOLDO	UIM VOR/DME	081.19 (UIM R-261)	48.79	5000		
SOLDO	HUBB1.SOLDO	TTT VOR/DME	SOLDO	084.18 (TTT R-084)	35.79	5000		
TEXARKANA	HUBB1.TXK	TTT VOR/DME	TRISS	074.22 (TTT R-074)	36.27	5000		
		TRISS	SHERO	074.22 (TTT R-074)	39.32	5000		
		SHERO	TXK VORTAC	064.07 (TXK R-244)	79.40	7500		
TYLER	HUBB1.TYR	TTT VOR/DME	CLARE	094.06 (TTT R-094)	36.40	3500		
		CLARE	ROCKK	094.06 (TTT R-094)	22.45	3500		
		ROCKK	TYR VOR/DME	123.00 (TYR R-303)	32.10	3500		

**PROCEDURAL DATA NOTES:**

**NOTE (ALL AIRPORTS):** RADAR REQUIRED. **NOTE (ALL AIRPORTS):** FOR PROPS REQUESTING FL230 AND BELOW. **NOTE (DALLAS-FORT WORTH INTL, DALLAS LOVE FIELD):** JETS EXPECT DALLAS OR GARLAND DEPARTURE.

**TAKEOFF MINIMUMS:****DALLAS-FORT WORTH INTL****RWY 35R:** NA-ATC.**RWY 13L, 13R, 17C, 17L, 17R, 18L, 18R, 31L, 31R, 35C, 35L, 36L, 36R:** STANDARD.

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**DALLAS LOVE FIELD**

RWY 31L/R: STANDARD.

RWY 13L: STANDARD WITH A MINIMUM CLIMB OF 290 FT PER NM TO 1700.

RWY 13R: STANDARD WITH A MINIMUM CLIMB OF 315 FT PER NM TO 1700.

**ADDISON**

RWY 33: STANDARD.

RWY 15: 400-2 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 325 FT PER NM TO 1100.

**DALLAS EXECUTIVE**

RWY 13, 31, 35: STANDARD.

RWY 17: 400-2 3/4 OR STANDARD WITH A MINIMUM CLIMB OF 220 FT PER NM TO 1200.

**MCKINNEY NATIONAL**

RWY 18, 36: STANDARD.

**FORT WORTH ALLIANCE**

RWY 34R, 34L: STANDARD.

RWY 16L: 300-2 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 208 FT PER NM TO 1100, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1400 FT PRIOR TO DER.

RWY 16R: 300-2 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 210 FT PER NM TO 1100, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1500 FT PRIOR TO DER.

**FORT WORTH MEACHAM INTL**

RWY 16, 17: STANDARD.

RWY 34: 300-2 OR STANDARD WITH A MINIMUM CLIMB OF 220 FT PER NM TO 1100, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1800 FT PRIOR TO DER.

RWY 35: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 205 FT PER NM TO 900, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.

**FORT WORTH SPINKS**

RWY 17L, 35R: NA-ENVIRONMENTAL.

RWY 17R, 35L: STANDARD.

**FORT WORTH NAS JRB (CARSWELL FIELD)**

REFER TO APPROPRIATE MILITARY SERVICE DIRECTIVES.

**ARLINGTON MUNI**

RWY 16, 34: STANDARD.

**DENTON ENTERPRISE**

RWY 18, 36: STANDARD.

**GRAND PRAIRIE MUNI**

RWY 35: NA-ATC.

RWY 17: STANDARD.

**LANCASTER RGNL**

RWY 13: STANDARD.

RWY 31: 300-1 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 205 FT PER NM TO 800, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.

**MESQUITE METRO**

RWY 18, 36: STANDARD.



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HUBBARD	ONE	HUBB1.TTT	NINE	03/31/2016	<b>30 JAN 2020</b>

**CLEBURNE RGNL**

RWY 15: STANDARD.

RWY 33: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 422 FT PER NM TO 1200.

**DECATUR MUNI**

RWY 17, STANDARD

RWY 35, STANDARD WITH MINIMUM CLIMB OF 320 FT PER NM TO 3500.

**ENNIS MUNI**

RWY 16, 34: STANDARD.

**BOURLAND FIELD**

RWY 35: STANDARD.

RWY 17: 300-2 OR STANDARD WITH MINIMUM CLIMB OF 512 FT PER NM TO 1300.

**MID-WAY RGNL**

RWY 18, 36: STANDARD.

**RALPH M HALL/ROCKWALL MUNI**

RWY 17, 35: STANDARD.

**PARKER COUNTY**

RWY 17, 35: STANDARD.

**TAKEOFF OBSTACLES NOTES:**

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

**CONTROLLING OBSTACLES:****DALLAS LOVE FIELD**

RWY 13L, 13R: 1368 FT MSL ANTENNA ON BLDG 324648.00N/0964814.00W.

RWY 31L, 31R: 1049 FT MSL TOWER 325216.00N/0965523.00W.

**ADDISON**

RWY 15: 850 FT MSL BUILDING 325629.00N/0964925.00W. 975 FT MSL BUILDING 325540.81N/0964919.57W. 973 FT MSL BUILDING 325536.93N/0964906.47W

**DALLAS EXECUTIVE**

RWY 17: 1027 FT MSL TOWER 323817.80N/0965154.09W. 2549 FT MSL TOWER 323502.67N/0965748.75W.

RWY 13, 35: 2549 FT MSL TOWER 323502.67N/0965748.75W.

RWY 31: 2449 FT MSL TOWER 323506.00N/0965842.00W.

**FORT WORTH ALLIANCE**

RWY 16L: 954 FT MSL TANK 325641.21N/0971909.98W.

RWY 16R: 954 FT MSL TANK 325641.21N/0971909.98W. 1002 FT MSL TOWER 325653.00N/0971932.00W.

**FORT WORTH MEACHAM INTL**

RWY 9: 877 FT MSL ELEVATOR 324911.00N/0971946.00W. 1743 FT MSL TOWER 324501.00N/0971608.00W.

RWY 16, 17: 1743 FT MSL TOWER 324501.00N/0971608.00W.

RWY 34: 970 FT MSL BUILDING 325123.18N/0972128.11W.

RWY 35: 821 FT MSL TRANSMISSION TOWER 325026.45N/0972224.41W. 826 FT MSL TRANSMISSION TOWER 325026.78N/0972232.32W.

**FORT WORTH SPINKS**

RWY 17R: 1772 FT MSL TOWER 323212.00N/0972446.86W

**ARLINGTON MUNI**

RWY 16, 34: 2549 FT MSL TOWER 323502.67N/0965748.75W.



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**GRAND PRAIRIE MUNI**

**RWY 17:** 2549 FT MSL TOWER 323502.67N/0965748.75W.

**LANCASTER RGNL**

**RWY 31:** 661 FT MSL TRANSMISSION TOWER 323601.76N/0964358.15W. 2549 FT MSL TOWER 323502.67N/0965748.75W.

**CLEBURNE RGNL**

**RWY 33:** 976 FT MSL WELL DRILLING RIG 322211.95N/0972629.30W. 1043 FT MSL WELL DRILLING RIG 322243.27N/0972649.63W.

**DECATUR MUNI**

**RWY 17, 35:** 2859 FT MSL TOWER 332312.00N/0973358.00W.

**BOURLAND FIELD**

**RWY 17:** 1011 FT MSL TREES 323407.39N/0973524.72W. 1123 FT MSL TRANSMISSION TOWER 323306.16N/0973536.73W. 1092 TRANSMISSION TOWER 323258.36N/0973539.81W. 1275 FT MSL TOWER 323156.00N/0973623.00W.

**MID-WAY RGNL**

**RWY 18:** 2449 FT MSL TOWER 323235.00N/0965733.00W.

**RWY 36:** 2549 FT MSL TOWER 323502.67N/0965748.75W.

**PARKER COUNTY**

**RWY 35:** 1418 FT MSL TOWER 324648.00N/0974155.00W.

**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

CHART: BYP R-184 AT NOBLY; BYP R-131 AT ECKEY; BYP R-182 AT TRISS; UIM R-312 AT SHERO; BYP R-181 AT SOLDI; BYP R-180 AT CLARE; SLR R-203 AT ROCKK.

CHART: TOP ALTITUDE KDFW: 2000

CHART: TOP ALTITUDE KDAL RWY 13L/R: 3000

CHART: TOP ALTITUDE KDAL RWY 31L/R: 2000

MOCAS NOT CHARTED BY ATC REQUEST.

**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
DALLS-FORT WORTH INTL	KDFW	DALLAS-FORT WORTH	TX
DALLAS LOVE FIELD	KDAL	DALLAS	TX
ADDISON	KADS	DALLAS	TX
DALLAS EXECUTIVE	KRBD	DALLAS	TX
MCKINNEY NATIONAL	KTKI	DALLAS	TX
FORT WORTH ALLIANCE	KAFW	FORT WORTH	TX
FORT WORTH MEACHAM INTL	KFTW	FORT WORTH	TX

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HUBBARD	ONE	HUBB1.TTT	NINE	03/31/2016	<b>30 JAN 2020</b>
FORT WORTH SPINKS	KFWS		FORT WORTH		TX
FORT WORTH NAS JRB (CARSWELL FIELD)	KNFW		FORT WORTH		TX
ARLINGTON MUNI	KGKY		ARLINGTON		TX
DENTON ENTERPRISE	KDTO		DENTON		TX
GRAND PRAIRIE MUNI	KGPM		GRAND PRAIRIE		TX
LANCASTER RGNL	KLNC		LANCASTER		TX
MESQUITE METRO	KHQZ		MESQUITE		TX
CLEBURNE RGNL	KCPT		CLEBURNE		TX
DECATUR MUNI	KLUD		DECATUR		TX
ENNIS MUNI	KF41		ENNIS		TX
BOURLAND FIELD	K50F		FORT WORTH		TX
MID-WAY RGNL	KJWY		MIDLOTHIAN/WAXAHACHIE		TX
RALPH M HALL/ROCKWALL MUNI	KF46		ROCKWALL		TX
PARKER COUNTY	KWEA		WEATHERFORD		TX

**COMMUNICATIONS:**

**ATIS:** DFW, DAL, ADS, RBD, AFW, FTW, FWS, NFW. **CLNC DEL:** DFW, DAL, ADS, RBD, TKI, AFW, FTW, NFW, GKY, DTO.

**GND CON:** DFW, DAL, ADS, RBD, TKI, AFW, FTW, FWS, NFW, GKY, DTO, GPM. **TOWER:** DFW, DAL, ADS, RBD, TKI, AFW, FTW, FWS, NFW, GKY, DTO, GPM.

**CTAF:** ADS, RBD, TKI, FWS, GKY, DTO GPM, LNC, HQZ, 50F, CPT, F41, F46, JWY, LUD, WEA. **DEP CON (DFW ONLY):** 125.2/343.65 (PROPS DEPARTING SOUTH), 124.3/282.275 (PROPS DEPARTING NORTH). **DEP CON (DAL ONLY):** 125.2/343.65 (PROPS DEPARTING RWY 13L/R), 124.3/282.35 (PROPS DEPARTING RWY 31L/R).

**DEP CON:** ALL AIRPORTS. **CPDLC:** DAL, DFW.

**FIXES AND/OR NAVAIDS:****REMARKS:**

ABREVIATED AMMENDMENT



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
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**FLIGHT INSPECTED BY**

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018,  
 SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED. *Digitally signed by*

**DONALD H LANIER****OFFICE****DATE****DEVELOPED BY***Digitally signed by*

Dec 10, 2019

**OFFICE****DATE**

KELLY DEAN

**KELLY D DEAN**

AJV-A431

08/14/2019

Nov 26, 2019

**APPROVED BY***Digitally signed by*

LONNIE EVERHART

**DONALD H LANIER****OFFICE****DATE****TITLE**

Dec 10, 2019

AJV-A430

MANAGER

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:****A4A** ☐**ALPA** ☒**AOPA** ☒**APA** ☒**HAI** ☐**NBAA** ☒**OTHER:**

ATA, ALPA, APA, AOPA, NBAA, ZFW, REGIONAL DEP CON, DFW TOWER, DAL TOWER, ADS TOWER, RBD  
 TOWER, TKI TOWER, AFW TOWER, FTW TOWER, FWS TOWER, NFW TOWER, GKY TOWER, DTO TOWER, GPM  
 TOWER, AMGR(S).

**CHANGES - REASONS:**

1. CHANGED ENNIS MUNI (KF41) RWY NUMBERS IN TAKEOFF MINIMUMS FROM 15/33 TO 16/34 - MAG/VAR UPDATE.
2. REMOVED PROPS REQUESTING FL240 OR ABOVE EXPECT WYLIE DEPARTURE.NOTE - FPT REQUEST DUE TO WYLIE BEING CANCELLED.
3. CHANGED DP INSTRUCTIONS FROM "CLIMB HEADING...." TO "CLIMB ON HEADING..." - ON ADDED PER CLARIFICATION REQUIREMENT IN 8260.46G PARA 2-1-1G.
4. ADDED CPDLC: DFW, DAL TO COMMUNICATIONS - CURRENTLY CHARTED ON EXISTING PROCEDURES.

11/5/2019 THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/15/2019  
 CHANGED DP COMPUTER CODE TO HUBB1.TTT

11/25/19. THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/15/19

CHANGED ALL REFERENCES OF "CLIMB HEADING" TO "CLIMB ON HEADING".

CHANGED AIRPORT NAME FROM DENTON MUNI TO DENTON ENTERPRISE IN DP ROUTE DESCRIPTIONS, TAKEOFF MINIMMS, AND AIRPORTS SERVED.

CHANGED AIRPORT NAME FROM COLLIN COUNTY RGNL AT MCKINNEY TO MCKINNEY NATIONAL IN DP ROUTE DESCRIPTIONS AND TAKEOFF MINIMUMS.

CHANGED UIM VORTAC TO UIM VOR/DME ON QUITMAN TRANSITION.

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