

**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SUPERSEDED NUMBER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>
KINGDOM	FOUR	KING4.TTT	THREE	03/24/2022	<b>25 JAN 2024</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:**  
**DALLAS-FORT WORTH INTL**

**JETS: TAKEOFF RWY 13L/R, 17L/C/R, 18L/R, 31L/R, 35L/C/R, 36L/R:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO APPROPRIATE ROUTE, THENCE...

...MAINTAIN 10000 AND EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**PROPS:**

**TAKEOFF RWY 13L/R, 17L/C/R, 18L/R:** CLIMB ON HEADING 240.00 THEN ON ASSIGNED HEADING FOR RADAR VECTORS TO APPROPRIATE ROUTE, THENCE...

**TAKEOFF RWY 31L/R, 35L/C/R 36L/R:** CLIMB ON HEADING 270.00 THEN ON ASSIGNED HEADING FOR RADAR VECTORS TO APPROPRIATE ROUTE, THENCE...

...MAINTAIN 2000 AND EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**DALLAS LOVE FLD**

**TAKEOFF RWY 13L/R:** CLIMB ON HEADING 133.00, CROSS CVE 13.00 DME AT OR BELOW 6000, THEN MAINTAIN 8000 FOR RADAR VECTORS TO APPROPRIATE ROUTE AND EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**TAKEOFF RWY 31L/R:** CLIMB ON HEADING 313.00 UNTIL THE I-LVF 5.50 DME OR I-OVW 5.50 DME, THEN RIGHT TURN HEADING 013.00 FOR RADAR VECTORS TO APPROPRIATE ROUTE, MAINTAIN ATC ASSIGNED ALTITUDE AND EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**DALLAS EXEC**

**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.

**PEROT FLD/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 165.90 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 18R:** CLIMB ON HEADING 177.11 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 18:** CLIMB ON HEADING 192.34 TO 2500 BEFORE PROCEEDING ON COURSE.

**LANCASTER RGNL**

**TAKEOFF RWY 31:** CLIMB ON HEADING 314.31 TO 1800 BEFORE TURNING LEFT.



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

**BOURLAND FLD**  
**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, THENCE...

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

**DEPARTING ADDISON, ARLINGTON MUNI, MCKINNEY NTL, FORT WORTH NAS JRB (CARSWELL FLD), DENTON ENTERPRISE, PEROT FLD/FORT WORTH ALLIANCE, DALLAS EXEC, GRAND PRAIRIE MUNI, MID-WAY RGNL, FORT WORTH MEACHAM INTL, FORT WORTH SPINKS, MESQUITE METRO, CLEBURNE RGNL, ENNIS MUNI, RALPH M. HALL/ROCKWELL MUNI, LANCASTER RGNL, DECATUR MUNI, BOURLAND FLD, PARKER COUNTY:** WHEN ENTERING CONTROLLED AIRSPACE, FLY ASSIGNED HEADING FOR RADAR VECTORS TO APPROPRIATE ROUTE. MAINTAIN ATC ASSIGNED ALTITUDE.

**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>
LUBBOCK	KING4.LBB	TTT VOR/DME	PODDE	250.47 (TTT R-250)	36.07	3500	2800	
		PODDE	MQP VORTAC	260.89 (MQP R-081)	13.37	3000	2800	
		MQP VORTAC	ABI VORTAC	252.69 & 250.69 (MQP R-253 & ABI R-071)	95.71	3700	3600	
		ABI VORTAC	LBB VORTAC	295.89 & 293.77 (ABI R-296 & LBB R-114)	126.70	6000	4800	
MILLSAP		TTT VOR/DME	PODDE	250.47 (TTT R-250)	36.07	3500	2800	
		PODDE	MQP VORTAC	260.89 (MQP R-081)	13.37	3000	2800	
PODDE	KING4.PODDE	TTT VOR/DME	PODDE	250.47 (TTT R-250)	36.07	3500	2800	
WICHITA FALLS	KING4.SPS	TTT VOR/DME	FERRA	285.01 (TTT R-285)	37.41	2700	2400	
		FERRA	MUZZO	285.01 (TTT R-285)	27.43	4000	3000	
		MUZZO	KARYN	329.53 & 328.20 (MQP R-330 & SPS R-148)	22.26	4000	3000	
		KARYN	SPS VORTAC	328.20 (SPS R-148)	25.16	3100	3100	

**PBN REQUIREMENT NOTES:**

**EQUIPMENT REQUIREMENT NOTES:**  
RADAR AND DME REQUIRED.



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**PROCEDURAL DATA NOTES:****LUBBOCK TRANSITION:** FOR ALL AIRCRAFT OVERFLYING THE MQP VORTAC WESTBOUND OR DIRECT.**MILLSAP TRANSITION:** FOR ALL AIRCRAFT OVERFLYING THE MQP VORTAC WESTBOUND OR DIRECT.**PODDE TRANSITION:** ATC ASSIGNED.**WICHITA FALLS TRANSITION:** FOR ALL AIRCRAFT LANDING WITHIN THE WICHITA FALLS TERMINAL AREA OR OVERFLYING THE SPS VORTAC.**NOTE (ALL AIRPORTS):** FOR ALL AIRCRAFT REQUESTING 17000 AND BELOW.**CHART NOTE:** DALLAS-FORT WORTH INTL DEPARTURES: DO NOT EXCEED 240 KIAS UNTIL LEAVING 5000.**NOTE (DALLAS LOVE FLD ONLY):** PROPS DEPARTING DAL MUST CONTACT CLEARANCE DELIVERY FOR DEPARTURE INSTRUCTIONS.**TAKEOFF MINIMUMS:****DALLAS-FORT WORTH INTL****RWY 13L, 13R, 17L, 17C, 17R, 18L, 18R, 31L, 31R, 35L, 35C, 36L, 36R:** STANDARD.**RWY 35R:** STANDARD WITH MINIMUM CLIMB OF 245 FT/NM TO 1200.**DALLAS LOVE FLD****RWY 31L/R:** STANDARD.**RWY 13L:** STANDARD WITH MINIMUM CLIMB OF 290 FT/NM TO 1700.**RWY 13R:** STANDARD WITH MINIMUM CLIMB OF 315 FT/NM TO 1700.**ADDISON****RWY 34:** STANDARD.**RWY 16:** 400-2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 325 FT/NM TO 1100.**DALLAS EXEC****RWY 13, 31, 35:** STANDARD.**RWY 17:** 400-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 1200.**MCKINNEY NTL****RWY 18, 36:** STANDARD.**PEROT FLD/FORT WORTH ALLIANCE****RWY 34L, 34R:** STANDARD.**RWY 16L:** 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 1100, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1900 FT PRIOR TO DER.**RWY 16R:** 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 225 FT/NM TO 1100, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2000 FEET PRIOR TO DER.**FORT WORTH MEACHAM INTL****RWY 16, 17:** STANDARD.**RWY 34,** 300-1 7/8 OR STANDARD WITH MINIMUM CLIMB OF 225 FT/NM TO 1100, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2000 FT PRIOR TO DER.**RWY 35:** 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 210 FT/NM TO 900, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 FT PRIOR TO DER.**FORT WORTH SPINKS****RWY 18L, 36R:** NA-ENVIRONMENTAL.**RWY 18R, 36L:** STANDARD.**FORT WORTH NAS JRB (CARSWELL FLD)**

REFER TO APPROPRIATE MILITARY SERVICE DIRECTIVES.

**ARLINGTON MUNI****RWY 16, 34:** STANDARD.**DENTON ENTERPRISE**

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**RWY 18L, 18R, 36L, 36R:** STANDARD.

**GRAND PRAIRIE**

**RWY 36:** NA-ATC.

**RWY 18:** STANDARD.

**LANCASTER RGNL**

**RWY 13:** STANDARD.

**RWY 31:** 300 -1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 210 FT/NM TO 800, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 FT PRIOR TO DER.

**MESQUITE METRO**

**RWY 18, 36:** STANDARD.

**CLEBURNE RGNL**

**RWY 15:** STANDARD.

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

**DECATUR MUNI**

**RWY 17:** STANDARD.

**RWY 35:** STANDARD WITH MINIMUM CLIMB OF 320 FT/NM TO 3500.

**ENNIS MUNI**

**RWY 16, 34:** STANDARD.

**BOURLAND FLD**

**RWY 35:** STANDARD.

**RWY 17:** 300-2 OR STANDARD WITH MINIMUM CLIMB OF 512 FT/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-FORT WORTH INTL**

**RWY 35R:** 1016 FT MSL TOWER 325628.78N/0965931.40W.

**DALLAS LOVE FLD**

**RWY 13L, 13R:** 1368 FT MSL BLDG (48-004928) 324648.00N/0964814.00W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

**RWY 31L, 31R:** 1048 FT MSL TOWER (48-008398) 325215.51N/0965524.76W.

**ADDISON**

**RWY 16:** 850 FT MSL BUILDING 325629.00N/0964925.00W (CLIMB GRADIENT, CLIMB-TO ALTITUDE). 975 FT MSL BUILDING 325540.81N/0964919.57W (CEILING). 973 FT MSL BUILDING 325536.93N/0964906.47W (VISIBILITY).



NFDD No. 239	12/14/2023				
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DALLAS EXEC

RWY 17: 1024 FT MSL TOWER 323818.55N/0965153.91W (CLIMB GRADIENT), 1026 FT MSL ANTENNA 323817.76N/0965154.08W (CLIMB-TO ALTITUDE, CEILING, VISIBILITY).  
OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:  
RWY 13, 17, 31, 35: 2549 FT MSL TOWER 323502.67N/0965748.75W.

PEROT FLD/FORT WORTH ALLIANCE

RWY 16L, 16R: 961 FT MSL WATER TOWER 325641.35N/0971909.88W (CLIMB GRADIENT, CLIMB-TO ALTITUDE, CEILING), 954 FT MSL TANK 325641.21N/0971909.98W (VISIBILITY).  
OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 16R: 1002 FT MSL TOWER 325653.00N/0971932.00W.

FORT WORTH MEACHAM INTL

RWY 34: 970 FT MSL BUILDING 325123.18N/0972128.11W.  
RWY 35: 826 FT MSL TRANSMISSION LINE 325026.78N/0972232.32W.  
OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:  
RWY 16: 1196 FT MSL BUILDING 324522.00N/0971950.00W (OFFSET ICA) AND 1743 FT MSL TOWER 324501.00N/0971608.00W (CLIM-TO ALTITUDE)  
RWY 17: 1743 FT MSL TOWER 324501.00N/0971608.00W

FORT WORTH SPINKS

RWY 18R: 1772 FT MSL TOWER 323212.00N/0972446.86W.

ARLINGTON MUNI

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:  
RWY 16, 34: 2549 FT MSL TOWER 323502.67N/0965748.75W.

GRAND PRAIRIE MUNI

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:  
RWY 18: 2549 FT MSL TOWER 323502.67N/0965748.75W.

LANCASTER RGNL

RWY 31: 661 FT MSL TRANSMISSION TOWER 323601.76N/0964358.15W.  
OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:  
RWY 31: 2549 FT MSL TOWER 323502.67N/0965748.75W.

CLEBURNE RGNL

RWY 33: 976 FT MSL WELL DRILLING RIG 322211.95N/0972629.30W (CLIMB GRADIENT). 1043 FT MSL WELL DRILLING RIG 322243.27N/0972649.63WV(CLIMB-TO ALTITUDE).

DECATUR MUNI

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

BOURLAND FLD

RWY 17: 1011 FT MSL TREES 323407.39N/0973524.72W (CLIMB GRADIENT/CLIMB-TO ALTITUDE). 1123 FT MSL TRANSMISSION TOWER 323306.16N/0973536.73W (CEILING). 1092 TRANSMISSION TOWER 323258.36N/0973539.81W (VISIBILITY).  
OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:  
RWY 17: 1275 FT MSL TOWER 323156.00N/0973623.00W.

MID-WAY RGNL

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:  
RWY 18: 2449 FT MSL TOWER 323235.00N/0965733.00W.  
RWY 36: 2549 FT MSL TOWER 323502.67N/0965748.75W.

PARKER COUNTY

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:  
RWY 35: 1418 FT MSL TOWER 324648.00N/0974155.00W.



**MSA:**  
KDFW: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KDAL: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KADS: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KRBD: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KTKI: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600, 30 NM  
KAFW: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KFTW: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KFWS: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KNFW: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KGKY: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KDTO: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KGPM: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KLNC: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600  
KHQZ: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600, 30 NM  
KCPT: MSA FROM KCPT, 3600  
KLUD: MSA FROM KLUD, 4000  
F41: MSA FROM CQY VORTAC, 2400  
50F: MSA FROM MQP VORTAC 005-165 3000, 165-005 3600  
KJWY: MSA FROM TTT VOR/DME 270-090 2700, 090-270 3600, 30 NM  
F46: MSA FROM CVE VOR/DME 270-090 2700, 090-270 3600  
KWEA: MSA FROM MQP VORTAC 005-165 3000, 165-005 3600

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**  
**CHART:** MQP R-330 AT MUZZO.  
**CHART:** V66 BETWEEN MQP VORTAC AND ABI VORTAC.  
**CHART:** V62 BETWEEN ABI VORTAC AND LBB VORTAC.  
**CHART:** V568 BETWEEN MUZZO AND KARYN.  
**CHART:** V568 BETWEEN KARYN AND SPS VORTAC.  
**DALLAS-FORT WORTH INTL:** **CHART:** TOP ALTITUDE: (JETS) 10000/PROPS 2000.  
**DALLAS LOVE FLD:** **CHART:** TOP ALTITUDE: RWY 13L/13R: 8000; RWY 31L/31R: ASSIGNED BY ATC.  
**DALLAS EXEC, PEROT FLD/FORT WORTH ALLIANCE, FORT WORTH MEACHAM INTL, FORT WORTH SPINKS, ARLINGTON MUNI, GRAND PRAIRIE MUNI, LANCASTER RGNL, DECATUR MUNI, BOURLAND FLD, MID-WAY RGNL, PARKER COUNTY, ADDISON, MCKINNEY NTL, FORT WORTH NAS JRB (CARSELL FLD), DENTON ENTERPRISE, MESQUITE METRO, CLEBURNE RGNL, ENNIS MUNI, RALPH M. HALL/ROCKWELL MUNI:** **CHART:** TOP ALTITUDE: ASSIGNED BY ATC.  
**REFERENCE MAG VAR: AIRPORT MV:** DFW (P) 4E/2015, DAL 3E/2020, ADS 3E/2025, RBD 6E/1990, TKI 3E/2015, AFW 4E/2015, FTW 8E/1975, FWS 3E/2025, NFW 4E/2015, GKY 6E/2000, DTO 4E/2010, GPM 3E/2025, LNC 6E/1990, HQZ 3E/2015, CPT 6E/2000, LUD 9E/2000, F41 3E/2020, 50F 6E/2000, JWY 6E/1995, F46 5E/2000, WEA 5E/2010.

**AIRPORTS SERVED:**

AIRPORT ID	CITY	STATE
KDFW	DALLAS-FORT WORTH	TX
KDAL	DALLAS	TX
KADS	DALLAS	TX
KRBD	DALLAS	TX
KTKI	DALLAS	TX



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KAFW		FORT WORTH			TX
KFTW		FORT WORTH			TX
KFWS		FORT WORTH			TX
KNFW		FORT WORTH			TX
KGKY		ARLINGTON			TX
KDTO		DENTON			TX
KGPM		GRAND PRAIRIE			TX
KLNC		LANCASTER			TX
KHQZ		MESQUITE			TX
KCPT		CLEBURNE			TX
KLUD		DECATUR			TX
F41		ENNIS			TX
50F		FORT WORTH			TX
KJWY		MIDLOTHIAN/WAXAHACHIE			TX
F46		ROCKWALL			TX
KWEA		WEATHERFORD			TX

**COMMUNICATIONS:****CHART:ATIS:** DFW, DAL, ADS, RBD, AFW, FTW, FWS, NFW. **CLNC DEL:** DFW, DAL, ADS, RBD, TKI, AFW, FTW, NFW, GKY, DTO.**CHART: GND CON:** DFW, DAL, ADS, RBD, TKI, AFW, FTW, FWS, NFW, GKY, DTO, GPM.**CHART: TOWER:** DFW, DAL, ADS, RBD, TKI, AFW, FTW, FWS, NFW, GKY, DTO, GPM.**CHART: CTAF:** ADS, RBD, TKI, FWS, GKY, DTO, GPM, LNC, HQZ, 50F, CPT, F41, F46, JWY, LUD, WEA.**CHART CPDLC:** DAL, DFW.**FIXES AND/OR NAVAIDS:****REMARKS:**

100 FT MAX VEGETATION HEIGHT UTILIZED PER FPT CHECKLIST.

WAIVER ON FILE: CHART THREE NUMERIC TOP ALTITUDES.

APPROVAL LETTER ON FILE: 50F RWY 17 CLIMB GRADIENT GREATER THAN 500 FT PER NM.

SID NAME COORDINATED WITH ATC AND AFS.

DOCUMENTING HIGHEST MOCA FOR ALL TTT VOR/DME TO FIX PODDE SEGMENTS - CONTROLLED BY PODDE TRANSITION, OBSTACLE 1745 TOWER (48-014219) 324625.85N/0974635.83W.

DO NOT CHART MOCA: FROM PODDE TO MQP VORTAC.

DO NOT CHART MOCA: FROM MQP TO ABI VORTAC.



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DO NOT CHART MOCA: FROM KARYN TO SPS VORTAC.  
DO NOT CHART: FROM TTT VOR/DME TO FERRA.  
MEA FROM TTT VOR/DME TO FERRA BASED ON MINIMUM AIRSPACE REQUIREMENT.  
MEA FROM FERRA TO MUZZO BASED ON TTT VOR/DME ESV.  
MEA FROM MUZZO TO KARYN BASED ON SPS VORTAC ESV.  
MEA FROM KARYN TO SPS BASED ON SPS SERVICE VOLUME/MOCA.  
MEA FROM PODDE TO MQP VORTAC, MQP VORTAC TO ABI VORTAC BASED ON MINIMUM AIRSPACE REQUIREMENT.  
MEA FROM ABI VORTAC TO LBB VORTAC BASED ON ESV FOR ABI VORTAC AND LBB VORTAC.  
MEA FROM TTT VOR/DME TO PODDE BASED ON TTT VOR/DME MRA.

**FLIGHT INSPECTED BY**

JEFFREY A FINDLEY

**SIGNATURE**

*Digitally signed by*  
**ERIC N SUSKI**  
Dec 06, 2023

**OFFICE**

FPO

**DATE**

12/01/2023

**DEVELOPED BY**

MICHAEL MCCARTNEY

**SIGNATURE**

*Digitally signed by*  
**MICHAEL A MCCARTNEY**  
Dec 06, 2023

**OFFICE**

AJV-A431

**DATE**

05/16/2023

**APPROVED BY**

CASIMIR L. TABAKA

*Digitally signed by*  
**ERIC N SUSKI**  
Dec 06, 2023

**SIGNATURE****OFFICE**

AJV-A432

**DATE****TITLE**

MANAGER

**REQUIRED EFFECTIVE DATE**

ROUTINE

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

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. UPDATED DP ROUTE DESCRIPTION FOR KDAL FOR RUNWAYS 13L/R FROM "TAKEOFF RWY 13L/R: CLIMB ON HEADING 168.00, FOR VECTORS TO APPROPRIATE ROUTE, THENCE..." TO "CLIMB ON HEADING 133.00, CROSS CVE 13.00 DME AT OR BELOW 6000, THEN MAINTAIN 8000 FOR RADAR VECTORS TO APPROPRIATE ROUTE AND EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE." - PER AIR TRAFFIC/IFP CHECKLIST
2. UPDATED DP ROUTE DESCRIPTION FOR KDAL FROM "TAKEOFF RWY 31L/R: CLIMB ON HEADING 333.00, FOR VECTORS TO APPROPRIATE ROUTE, THENCE..." TO "CLIMB ON HEADING 313.00 UNTIL THE I-LVF 5.50 DME OR I-OVW 5.50 DME, THEN RIGHT TURN HEADING 013.00 FOR RADAR VECTORS TO APPROPRIATE ROUTE, MAINTAIN ATC ASSIGNED ALTITUDE AND EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE." - PER AIR TRAFFIC/IFP CHECKLIST
3. ADDED THE WORD "RADAR" TO VECTORS IN ALL DP ROUTING DESCRIPTIONS - 8260.46J 2-1-1 G(2).
4. MOVED NOTE RADAR AND DME REQUIRED TO EQUIPMENT REQUIREMENT NOTES - 8260.46J 2-1-1.
5. UPDATED WORDING ON TAKEOFF MINIMUMS FROM "FEET PER NM" TO "FT/NM" - APPENDIX D, SECTION 2, H(3).
6. ADDED MSA INFORMATION - 8260.46J
7. TAKEOFF MINIMUMS, CHANGED PEROT FLD/FORT WORTH ALLIANCE RWY 16R FROM 220 FT PER NM TO 225 FT/NM AND RTRL FROM 1900 FT TO 2000 FEET PRIOR TO DER - NEW RUNWAY SURVEY AND RWY 16R DER MOVED 115 FT SOUTH.
8. CONTROLLING OBSTACLES, ADDED PEROT FLD/FORT WORTH ALLIANCE RWY 16L: 954 FT MSL TANK 325641.21N/0971909.98W (VISIBILITY). - MISSING ON PREVIOUS FORMS.
9. TAKEOFF MINIMUMS, CHANGED LANCASTER RGNL RWY 31 CLIMB GRADIENT FROM 205 FT PER NM TO 210 FT/NM, AND RTRL FROM 1200 FT TO 1300 FEET PRIOR TO DER. - UPDATED OBSTACLE EVALUATION CALCULATIONS, CONTROLLING OBSTACLE DID NOT CHANGE.
10. MOVED FROM ADDITIONAL FLIGHT DATA TO PROCEDURAL DATA NOTES "**CHART NOTE:** DALLAS-FORT WORTH INTL DEPARTURES: DO NOT EXCEED 240 KIAS UNTIL LEAVING 5000" TO PROCEDURAL DATA NOTES - 8260.46J 2-1-1 D (3) C.
11. MOVED FROM DP ROUTE DESCRIPTION TO ADDITIONAL FLIGHT DATA AND REPHRASED FROM: "ALL JET AIRCRAFT DEPARTING DALLAS LOVE FIELD MUST CONTACT CLEARANCE DELIVERY FOR DEPARTURE INSTRUCTION, THENCE..." TO "**NOTE (DALLAS LOVE FLD ONLY):** PROPS DEPARTING DAL MUST CONTACT CLEARANCE DELIVERY FOR DEPARTURE INSTRUCTIONS." - 8260.46J 2.2.M.
12. MOVED "ALL JET AIRCRAFT DEPARTING DALLAS LOVE FIELD MUST CONTACT CLEARANCE DELIVERY FOR DEPARTURE INSTRUCTIONS, THENCE... FROM DP ROUTE DESCRIPTION FOR DALLAS LOVE FIELD TO PROCEDURAL DATA NOTES - 8260.46J 2.2.G.
13. UPDATED ADDITIONAL FLIGHT DATA FROM "CHART: TOP ALTITUDE: KDFW RUNWAYS 13L/13R, 17L/C/R, 18L/R, 31L/R, 35L/C/R, 36L/R 10000 (JETS), 2000 (PROPS); KDAL ALL RUNWAYS: ASSIGNED BY ATC" TO "DALLAS-FORT WORTH INTL: CHART: TOP ALTITUDE: (JETS) 10000/PROPS 2000. DALLAS LOVE FLD: CHART: TOP ALTITUDE: RWY 13L/13R: 8000; RWY 31L/31R: ASSIGNED BY ATC.

QUALITY  
16  
CHECKED



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
KINGDOM	FOUR	KING4.TTT	THREE	03/24/2022	<b>25 JAN 2024</b>

DALLAS EXEC, PEROT FLD/FORT WORTH ALLIANCE, FORT WORTH MEACHAM INTL, FORT WORTH SPINKS, ARLINGTON MUNI, GRAND PRAIRIE MUNI, LANCASTER RGNL, DECATUR MUNI, BOURLAND FLD, MID-WAY RGNL, PARKER COUNTY, ADDISON, MCKINNEY NTL, FORT WORTH NAS JRB (CARSELL FLD), DENTON ENTERPRISE, MESQUITE METRO, CLEBURNE RGNL, ENNIS MUNI, RALPH M. HALL/ROCKWELL MUNI: CHART: TOP ALTITUDE: ASSIGNED BY ATC" - 8260.46J APPENDIX D, SECTION 2M.

14. ADDED TOP ALTITUDE WAIVER TO REMARKS - ATC REQUIRED CHARTING OF 3 NUMERICAL ALTITUDES/8260.46J 3-1-1 L (6).

15. DP ROUTE DESCRIPTION, CHANGED FORT WORTH MEACHAM INTL TAKEOFF RWY 16 FROM CLIMB ON HEADING 163.90 TO CLIMB ON HEADING 165.90. - OFFSET ICA TO AVOID OBSTACLE TO MAINTAIN 200 FT/NM CLIMB GRADIENT AND MATCH ODP.

16. DP ROUTE DESCRIPTION, CHANGED LANCASTER RGNL TAKEOFF RWY 34 FROM CLIMB ON HEADING 314.32 TO CLIMB ON HEADING 314.31. - RUNWAY TRUE BEARING CHANGED FROM 320.32 TO 320.313 IN 2016.

17. DP ROUTE DESCRIPTION: ADDED PEROT FLD/FORT WORTH ALLIANCE, DALLAS EXEC, ARLINGTON MUNI, GRAND PRAIRIE MUNI, MID-WAY RGNL, FORT WORTH MEACHAM INTL, FORT WORTH SPINKS, LANCASTER RGNL, DECATUR MUNI, BOURLAND FLD AND PARKER COUNTY TO THE INSTRUCTION "WHEN ENTERING CONTROLLED AIRSPACE, FLY ASSIGNED HEADING FOR RADAR VECTORS TO APPROPRIATE ROUTE. MAINTAIN ATC ASSIGNED ALTITUDE" - VERIFIED WITH FPT/ATC TO ADD THESE AIRPORTS.

18. ADDED ALL MISSING MOCA ALTITUDES TO TRANSITIONS - MEMO CLARIFICATION TO FAA ORDER 8260.46, DEPARTURE PROCEDURE (DP) PROGRAM, MOCA DOCUMENTATION.

19. REMARKS: ADDED MEA FROM TTT VOR/DME TO FERRA BASED ON TTT VOR/DME SERVICE VOLUME/MOCA - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

20. REMARKS: ADDED MEA FROM FERRA TO MUZZO BASED ON TTT VOR/DME ESV - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

21. REMARKS: ADDED MEA FROM MUZZO TO KARYN BASED ON SPS VORTAC ESV - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

22. REMARKS: ADDED MEA FROM KARYN TO SPS BASED ON SPS SERVICE VOLUME/MOCA - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

23. REMARKS: ADDED MEA FROM TTT VOR/DME TO PODDE, PODDE TO MQP VORTAC, MQP VORTAC TO ABI VORTAC BASED ON MINIMUM AIRSPACE REQUIREMENT - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

24. REMARKS: ADDED MEA FROM ABI VORTAC TO LBB VORTAC BASED ON ESV FOR ABI VORTAC AND LBB VORTAC - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

25. ADDED APPROVAL LETTER INFORMATION TO REMARKS FOR OVER 500 FT/NM CG AT BOURLAND FLD - LETTER ON FILE.

26. TAKEOFF MINIMUMS: CHANGED FORT WORTH MEACHAM INTL RWY 34 CEILING AND VISIBILITY FROM 300-2 TO 300-1 7/8. - UPDATED DISTANCE CALCULATION TO OBSTACLE.

27. TAKEOFF MINIMUMS: CHANGED FORT WORTH MEACHAM INTL RWY 35 RTRL FROM 1200 FT TO 1300 FEET PRIOR TO DER. - UPDATED OCS PENETRATION CALCULATIONS, CONTROLLING OBSTACLE DID NOT CHANGE.

28. CONTROLLING OBSTACLES: CLEBURNE RGNL ADDED CLIMB-TO ALTITUDE AND CLIMB GRADIENT TO OBSTACLE IDENTIFICATION - 8260.46J APPENDIX D, SECTION 2 J (1).

29. CONTROLLING OBSTACLES: BOURLAND FLD ADDED CLIMB GRADIENT, CLIMB-TO ALTITUDE, CEILING, AND VISIBILITY TO OBSTACLE IDENTIFICATION- 8260.46J 2.J APPENDIX D.2.J.

30. ADDED DO NOT CHART MOCA: FROM TTT VOR/DME TO FIX PODDE. DO NOT CHART MOCA: FROM FIX PODDE TO MQP VORTAC. DO NOT CHART MOCA: FROM MQP VORTAC TO ABI VORTAC, DO NOT CHART MOCA: FROM KARYN TO SPS VORTAC, DO NOT CHART: FROM TTT VOR/DME TO FERRA. ALL MOCAS ARE LESS THAN 500 FEET BELOW MEAS. - 8260.46J SECTION 2.J (1) CLARIFICATION TO FAA ORDER 8260.46J, DEPARTURE PROCEDURE PROGRAM, MOCA DOCUMENTATION.

31. REMARKS: ADDED MAXIMUM VEGETATION APPLIES - INFORMATION PER FPT CHECKLIST.

12/06/23: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 05/16/23.

1. TRANSITION ROUTES, CHANGED MEA ON ALL TTT VOR/DME TO FIX PODDE SEGMENTS FROM 2900 TO 3500. - NEW TTT DME RESTRICTION RADIALS 240-260 BEYOND 20 NM AND BELOW 3500 DUE TO FAILED FLIGHT INSPECTION ON 12/02/2023.

2. REMARKS, DELETED "DO NOT CHART MOCA: FROM TTT VOR/DME TO PODDE". - THIS SEGMENT MEA RAISED TO 3500 AND IS NOW GREATER THAN 500 FT ABOVE MOCA.

3. REMARKS, DELETED "MEA FROM TTT VOR/DME TO PODDE" PORTION OF REMARK THAT CONTINUES "MEA FROM PODDE TO MQP VORTAC, MQP VORTAC TO ABI VORTAC BASED ON MINIMUM

AIRSPACE REQUIREMENT" AND ADDED REMARK "MEA FROM TTT VOR/DME TO PODDE BASED ON TTT VOR/DME MRA". - MEA NOW CONTROLLED BY TTT VOR/DME MRA AT FIX PODDE.

4. SIGNATURE BLOCK, ADDED FLIGHT INSPECTED BY "JEFFREY A FINDLEY", OFFICE "FPO" AND DATE "12/01/2023", AND CHANGED DEVELOPED BY FROM "CASEY HILL" TO "MICHAEL MCCARTNEY"

AND OFFICE FROM "AJV-A432" TO "AJV-A431

*Digitally signed by*

**ERIC N SUSKI**

Dec 06, 2023

