

**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SUPERSEDED NUMBER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>
GARLAND	FIVE	GARL5.TTT	FOUR	12/29/2022	25 JAN 2024

<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

TAKEOFF RWY 31L/R: CLIMB ON ASSIGNED HEADING, MAINTAIN 5000, THENCE...

TAKEOFF RWY 13L/R, 17L/C/R, 18L/R, 35L/C/R, 36L/R: CLIMB ON ASSIGNED HEADING, MAINTAIN 10000, THENCE...

...FOR RADAR VECTORS TO APPROPRIATE ROUTE AND EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

DALLAS LOVE FLD:

JETS: 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.

JETS: 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.

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.



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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.

PARKER COUNTY

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

DEPARTING ADDISON, DALLAS EXEC, MCKINNEY NTL, PEROT FLD/FORT WORTH ALLIANCE, FORT WORTH MEACHAM INTL, FORT WORTH SPINKS, FORT WORTH NAS JRB (CARSWELL FLD), ARLINGTON MUNI, DENTON ENTERPRISE, GRAND PRAIRIE MUNI, LANCASTER RGNL, MESQUITE METRO, CLEBURNE RGNL, DECATUR MUNI, ENNIS MUNI, BOURLAND FLD, MID-WAY RGNL, RALPH M HALL/ROCKWALL MUNI, 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>
GREGG COUNTY	GARL5.GGG	TTT VOR/DME	CLARE	094.06 (TTT R-094)	36.40	3500	2400	
			CLARE	094.06 (TTT R-094)	22.45	3500	2100	
			ROCKK	099.14 (GGG R-279)	60.25	3500	2500	
PARIS	GARL5.PRX	TTT VOR/DME	NOBLY	064.14 (TTT R-064)	37.94	5000	2100	
			NOBLY	064.14 (TTT R-064)	24.29	5000	2300	
			ECKEY	041.02 (PRX R-221)	29.08	5000	2000	
SOLDO	GARL5.SOLDO	TTT VOR/DME	SOLDO	084.18 (TTT R-084)	35.79	3000	2300	
TEXARKANA	GARL5.TXK	TTT VOR/DME	TRISS	074.22 (TTT R-074)	36.27	5000	2300	
			TRISS	074.22 (TTT R-074)	39.32	5000	2100	
			SHERO	064.07 (TXK R-244)	79.40	7500	2100	
TYLER	GARL5.TYR	TTT VOR/DME	CLARE	094.06 (TTT R-094)	36.40	3500	2400	
			CLARE	094.06 (TTT R-094)	22.45	3500	2100	
			ROCKK	123.00 (TYR R-303)	32.10	3500	2200	

PBN REQUIREMENT NOTES:

EQUIPMENT REQUIREMENT NOTES:

RADAR AND DME REQUIRED.

PROCEDURAL DATA NOTES:

SOLDO TRANSITION: ATC ASSIGNED.

NOTE (DALLAS-FORT WORTH INTL ONLY): FOR ALL AIRCRAFT REQUESTING FL230 AND BELOW.



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NOTE (DALLAS-FORT WORTH INTL ONLY): FOR ALL AIRCRAFT REQUESTING FL240 AND ABOVE EXPECT DALLAS DEPARTURE.

NOTE (DALLAS-FORT WORTH INTL ONLY): JETS MAINTAIN 240 KIAS UNTIL LEAVING 5000.

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, 31R: 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 FEET 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 FEET 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 FEET 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

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

GRAND PRAIRIE MUNI

RWY 36: NA-ATC.

RWY 18: STANDARD.



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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 FEET 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 BUILDING 324648.00N/0964814.00W.

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/0964906.47 (VISIBILITY).

DALLAS EXEC

RWY 17: 1024 FT MSL TOWER 323817.76N/0965154.08W.

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.



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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 (CLIMB-TO ALTITUDE).

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

FORT WORTH SPINKS

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

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 LINE 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/0972649.63W (CLIMB-TO ALTITUDE).

DECATUR MUNI

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

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 17: 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 FT MSL

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.



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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: BYP R-184 AT NOBLY; BYP R-131 AT ECKEY; BYP R-182 AT TRISS; BYP R-181 AT SOLDI; BYP R-180 AT CLARE.
DALLAS-FORT WORTH INTL - CHART: TOP ALTITUDE: RWY 13L/13R/17L/17C/17R/18L/18R/35L/35C/35R/36L/36R: 10000; RWY 31L/31R: 5000.
DALLAS LOVE FLD - CHART: TOP ALTITUDE: RWY 13L/13R: 8000; RWY 31L/31R: ASSIGNED BY ATC.
ADDISON, DALLAS EXEC, MCKINNEY NTL, PEROT FLD/FORT WORTH ALLIANCE, FORT WORTH MEACHAM INTL, FORT WORTH SPINKS, FORT WORTH NAS JRB (CARSWELL FLD), ARLINGTON MUNI, DENTON ENTERPRISE, GRAND PRAIRIE MUNI, LANCASTER RNGL, MESQUITE METRO, CLEBURNE RGNL, DECATUR MUNI, ENNIS MUNI, BOURLAND FLD, MID-WAY RGNL, RALPH M HALL/ROCKWALL MUNI, PARKER COUNTY - CHART: TOP ALTITUDE: ASSIGNED BY ATC.
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:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KDFW	DALLAS-FORT WORTH	TX
KDAL	DALLAS	TX
KADS	DALLAS	TX
KRBD	DALLAS	TX
KTKI	DALLAS	TX
KAFW	FORT WORTH	TX
KFTW	FORT WORTH	TX
KFWS	FORT WORTH	TX
KNFW	FORT WORTH	TX
KGKY	ARLINGTON	TX
KDTO	DENTON	TX



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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. **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. **CPDLC:** DFW, DAL.

FIXES AND/OR NAVAIDS:

REMARKS:

- 100 FT MAX VEGETATION HEIGHT UTILIZED PER FPT CHECKLIST.
- MEA ON SEGMENTS FROM TTT VOR/DME TO FIX CLARE AND FROM TTT VOR/DME TO FIX SOLDO DUE TO BYP VORTAC CROSSING RADIAL MRA AT FIX CLARE AND AT FIX SOLDO.
- MEA ON SEGMENTS FROM TTT VOR/DME TO FIX TRISS AND FROM TTT VOR/DME TO FIX NOBLY DUE TO TTT VOR/DME ESV MRA ALONG EACH FOLLOW-ON SEGMENT FROM FIX TRISS AND FROM FIX NOBLY.
- MEA ON SEGMENTS FROM FIX TRISS TO FIX SHERO, FROM FIX NOBLY TO FIX ECKEY, AND FROM FIX CLARE TO FIX ROCKK DUE TO TTT VOR/DME ESV MRA ALONG EACH SEGMENT.
- MEA ON SEGMENT FROM FIX SHERO TO TXK VORTAC DUE TO TXK VORTAC ESV MRA ALONG SEGMENT.
- MEA ON SEGMENT FROM FIX ROCKK TO GGG VORTAC DUE TO GGG VORTAC ESV MRA ALONG SEGMENT.
- MEA ON SEGMENTS FROM FIX ECKEY TO PRX VOR/DME AND FROM FIX ROCKK TO TYR VOR/DME DUE TO TTT VOR/DME ESV MRA AT FIX ECKEY AND AT FIX ROCKK.
- 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.

FLIGHT INSPECTED BY

JEFFREY A FINDLEY

SIGNATURE

Digitally signed by
CASIMIR L TABAKA
Dec 07, 2023

OFFICE

FPO

DATE

11/28/2023

DEVELOPED BY

MICHAEL MCCARTNEY

SIGNATURE

Digitally signed by
MICHAEL A MCCARTNEY
Aug 09, 2023

OFFICE

AJV-A431

DATE

05/30/2023

APPROVED BY

ERIC SUSKI

SIGNATURE

Digitally signed by
ERIC N SUSKI
Sep 08, 2023

OFFICE

AJV-A431

DATE

TITLE
MANAGER



DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
GARLAND	FIVE	GARL5.TTT	FOUR	12/29/2022	25 JAN 2024

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:

- AIRPORT NAME CHANGED FOR KAFW FROM FORT WORTH ALLIANCE TO PEROT FLD/FORT WORTH ALLIANCE AND UTILIZED UPDATED RUNWAY THRESHOLD LATITUDE/LONGITUDE AND RUNWAY THRESHOLD ELEVATIONS FOR ALL CALCULATIONS. - AIRFIELD NAME CHANGED IN NASR AND NEW RUNWAY SURVEYS.
- AIRPORT NAMES UPDATED FROM BOURLAND FIELD TO BOURLAND FLD, FROM DALLAS EXECUTIVE TO DALLAS EXEC, FROM DALLAS LOVE FIELD TO DALLAS LOVE FLD, FROM FORT WORTH NAS JRB (CARSWELL FIELD) TO FORT WORTH NAS JRB (CARSWELL FLD), FROM MCKINNEY NATIONAL TO MCKINNEY NTL, AND FROM RALPH M. HALL/ROCKWELL MUNI TO RALPH M HALL/ROCKWALL MUNI. - NAMES FROM NASR AND FIXED TYPO.
- DP ROUTE DESCRIPTION, UPDATED TERMINOLOGY FROM "VECTOR" TO "RADAR VECTORS". - IAW FAAO 8260.46J PARAGRAPH 2-1-1.G.(2).
- DP ROUTE DESCRIPTION, DALLAS-FORT WORTH INTL, DELETED "UNLESS OTHERWISE ADVISED MAINTAIN ASSIGNED ALTITUDE" AND UPDATED TERMINOLOGY FROM "...ON VECTORS" TO "...FOR RADAR VECTORS". - ALL RUNWAYS HAVE NUMERIC TOP ALTITUDES AND FORMAT IAW FAAO 8260.46J PARAGRAPH 2-1-1.G.(2).
- DP ROUTE DESCRIPTION, CHANGED DALLAS LOVE FLD RWY 13L/R FROM "CLIMB ON HEADING 133.00, FOR VECTOR TO APPROPRIATE ROUTE, MAINTAIN ATC ASSIGNED ALTITUDE" TO "CLIMB ON HEADING 133.00, CROSS CVE 13.00 DME AT OR BELOW 6000, THEN MAINTAIN 8000 FOR RADAR VECTORS TO APPROPRIATE ROUTE". - ATC (D10) REQUESTED REDESIGN WITH A MAXIMUM ALTITUDE RESTRICTION FOR DEPARTURES USING CVE VOR/DME TO DECONFLICT WITH DFW DEPARTURES FLYING OVERHEAD; THIRD NUMERIC MAINTAIN ALTITUDE CHARTED IAW WAIVER ON FILE TO CHART THREE NUMERIC TOP ALTITUDES.
- DP ROUTE DESCRIPTION, CHANGED DALLAS LOVE FLD RWY 31L/R NAVAID DESCRIPTION FROM "LVF OR OVW LOCALIZER 5.50 DME" TO "I-LVF 5.50 DME OR I-OVW 5.50 DME". - FORMAT IAW FAAO 8260.46J PARAGRAPH 2-1-1G.(5).
- 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.
- 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.
- DP ROUTE DESCRIPTION, ON THE "DEPARTING ADDISON, DALLAS EXEC..." UPDATED VERBIAGE FROM "WHEN ENTERING CONTROLLED AIRSPACE, FLY ASSIGNED HEADING AND ALTITUDE, FOR VECTOR TO APPROPRIATE ROUTE" TO "WHEN ENTERING CONTROLLED AIRSPACE, FLY ASSIGNED HEADING FOR RADAR VECTORS TO APPROPRIATE ROUTE. MAINTAIN ATC ASSIGNED ALTITUDE". - UPDATED TERMINOLOGY AND TOP ALTITUDE VERBIAGE IAW FAAO 8260.46J PARAGRAPHS 2-1-1.G.(2) AND 3-1-1.L.(6).
- TRANSITION ROUTES SOLDO TRANSITION, CHANGED MEA FROM TTT VOR/DME TO FIX SOLDO SEGMENT FROM 5000 TO 3000. - LOWERED MEA TO NAVAID MRA AT FIX SOLDO.
- MOVED FROM ADDITIONAL FLIGHT DATA "CHART NOTE: DALLAS-FORT WORTH INTL DEPARTURES: JETS MAINTAIN 240 KIAS UNTIL LEAVING 5000" TO PROCEDURAL DATA NOTES AND CHANGED ANNOTATION FROM "CHART NOTE: DALLAS-FORT WORTH INTL DEPARTURES:" TO "NOTE (DALLAS-FORT WORTH INTL ONLY):". - IAW FAAO 8260.46J APPENDIX D.SECTION 2.2.G.
- TAKEOFF MINIMUMS, CHANGED ALL CLIMB GRADIENT FORMATS FROM "FT PER NM" TO "FT/NM" AND RTRL FROM "FT" TO "FEET". - FORMAT IAW FAAO 8260.46J APPENDIX D.SECTION 2.2.H.
- TAKEOFF MINIMUMS, CHANGED RWY FORMATS FOR DALLAS LOVE FLD FROM "RWY 31L/R:" TO "RWY 31L, 31R:". - FORMAT IAW FAAO 8260.46J APPENDIX D.SECTION 2.2.H.(2).
- 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.
- 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.
- 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.
- 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.
- TAKEOFF MINIMUMS, UPDATED FORMAT, COMBINED DENTON ENTERPRISE RWYS WITH STANDARD TAKEOFF MINIMUMS INTO ONE LINE. - IAW FAAO 8260.46J APPENDIX D.SECTION 2.2.H.
- CONTROLLING OBSTACLES, ADDED DESCRIPTION MODIFIERS CLIMB GRADIENT, CLIMB-TO ALTITUDE, CEILING AND VISIBILITY AS APPLICABLE. - IAW FAAO 8260.46J APPENDIX D.SECTION 2.2.J.
- CONTROLLING OBSTACLES, UPDATED DALLAS LOVE FLD RWY 13L, 13R OBSTACLE DESCRIPTION FROM "BLDG" TO "BUILDING" AND DELETED OEAAA NUMBER. - UPDATED DATABASE DESCRIPTION AND OEAAA NUMBER NOT REQUIRED IAW FAAO 8260.46J APPENDIX D.SECTION 2.2.J.(2).
- CONTROLLING OBSTACLES, DELETED DALLAS LOVE FLD OBSTACLES MANDATING ROUTE DEVELOPMENT FOR RWY 31L, 31R. - RWY 31L, 31R HAS AN ATC REQUESTED DP ROUTE.
- CONTROLLING OBSTACLES, UPDATED DALLAS EXEC RWY 17 TOWER LAT/LONG FROM 323818.55N/0965153.91W TO 323817.76N/0965154.08W, DELETED "(CG)" FROM THE TOWER OBSTRUCTION, AND DELETED 1026 FT MSL ANTENNA 323817.76N/0965154.08W (CGTA/CEIL/VIS). - UPDATED DATABASE TOWER COORDINATES, ANTENNA OBSTACLE NO LONGER EXISTS AND TOWER IS NOW THE CLIMB GRADIENT, CLIMB-TO ALTITUDE, CEILING, AND VISIBILITY CONTROLLING OBSTRUCTION.
- CONTROLLING OBSTACLES, ADDED PEROT FLD/FORT WORTH ALLIANCE RWY 16L: 961 FT MSL WATER TOWER 325641.35N/0971909.88W (CLIMB GRADIENT, CLIMB-TO ALTITUDE, CEILING), 954 FT MSL TANK 325641.21N/0971909.98W (VISIBILITY). - MISSING ON PREVIOUS FORMS.
- CONTROLLING OBSTACLES, CHANGED PEROT FLD/FORT WORTH ALLIANCE RWY 16R VISIBILITY CONTROLLING OBSTACLE FROM 961 FT MSL WATER TOWER 325641.35N/0971909.88W TO 954 FT MSL TANK 325641.21N/0971909.98W. - NEW VISIBILITY CONTROLLING OBSTACLE.
- CONTROLLING OBSTACLES, UPDATED FORT WORTH MEACHAM INTL OBSTACLES MANDATING ODP ROUTING DESCRIPTION RWY 16 FROM "BLDG" TO "BUILDING" - UPDATED DATABASE

QUALITY
8
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>
GARLAND	FIVE	GARL5.TTT	FOUR	12/29/2022	25 JAN 2024

DESCRIPTION.

26. CONTROLLING OBSTACLES, ADDED VERBIAGE "OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:" TO FORT WORTH SPINKS RWY 18R OBSTACLE. - TAKEOFF MINIMUMS ARE STANDARD AND THIS OBSTACLE IS THE REASON FOR THE RWY 18R DP ROUTE DESCRIPTION.

27. CONTROLLING OBSTACLES, UPDATED LANCASTER RGNL RWY 31 OBSTACLE DESCRIPTION FROM "TRANSMISSION TOWER" TO TRANSMISSION LINE". - UPDATED DATABASE DESCRIPTION.

28. CONTROLLING OBSTACLES, DECATUR MUNI, DELETED CONTROLLING OBSTACLE 2549 FT MSL TOWER 323502.67N/0965748.75W, AND CHANGED RWY 17 VERBIAGE TO READ "OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 17: 2859 FT MSL TOWER 332312.00N/0973358.00W". - DELETED OBSTACLE IS NOT A CONTROLLING OBSTRUCTION AND RWY 17 ODP OBSTACLE IS THE REASON FOR THE DP ROUTE DESCRIPTION TO KEEP STANDARD TAKEOFF MINIMUMS.

29. MSA ADDED FOR ALL AIRPORTS. - REQUIRED IAW FAAO 8260.46J PARAGRAPH 3-1-2.

30. ADDITIONAL FLIGHT DATA, UPDATED TOP ALTITUDE FORMAT FOR DALLAS-FORT WORTH INTL FROM "DALLAS-FORT WORTH INTL: CHART: TOP ALTITUDE: RWY 13L/R, 17L/C/R, 18L/R, 35L/C/R, 36L/R: 10000; RWY 31L/R: 5000" TO "DALLAS-FORT WORTH INTL - CHART: TOP ALTITUDE: RWY 13L/13R/17L/17C/17R/18L/18R/35L/35C/35R/36L/36R: 10000; RWY 31L/31R: 5000". - FORMAT IAW FAAO 8260.46J APPENDIX D.SECTION 2.2.M.

31. ADDITIONAL FLIGHT DATA, UPDATED DALLAS LOVE FLD TOP ALTITUDE FROM "DALLAS LOVE FIELD: CHART: TOP ALTITUDE: ASSIGNED BY ATC" TO "DALLAS LOVE FLD - CHART: TOP ALTITUDE: RWY 13L/13R: 8000; RWY 31L/31R: ASSIGNED BY ATC". - ADDED NUMERIC TOP ALTITUDE FOR AIR TRAFFIC DECONFLICTION WITH DFW IAW WAIVER ON FILE TO CHART THREE NUMERIC TOP ALTITUDES, AND FORMAT IAW FAAO 8260.46J APPENDIX D.SECTION 2.2.M.

32. ADDITIONAL FLIGHT DATA, ADDED TOP ALTITUDE ASSIGNED BY ATC TO ALL OTHER AIRPORTS. - ALL AIRPORTS REQUIRE TOP ALTITUDES IAW FAAO 2860.46J APPENDIX D.SECTION 2.2.M.

33. ADDITIONAL FLIGHT DATA, MAGNETIC VARIATION ADDED FOR ALL AIRPORTS. - REQUIRED IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022.

34. AIRPORTS SERVED, CHANGED AIRPORT ID FROM K50F TO 50F, KF46 TO F46, KF41 TO F41. - THESE AIRPORTS DON'T HAVE ICAO ID; UTILIZED OFFICIAL AIRPORT ID IAW FAAO 8260.46J APPENDIX D.SECTION 2.2.N.

35. ADDED REMARK "MEA ON SEGMENTS FROM TTT VOR/DME TO FIX CLARE AND FROM TTT VOR/DME TO FIX SOLDO DUE TO BYP VORTAC CROSSING RADIAL MRA AT FIX CLARE AND AT FIX SOLDO". - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

36. ADDED REMARK "MEA ON SEGMENTS FROM TTT VOR/DME TO FIX TRISS AND FROM TTT VOR/DME TO FIX NOBLY DUE TO TTT VOR/DME ESV MRA ALONG EACH FOLLOW-ON SEGMENT FROM FIX TRISS AND FROM FIX NOBLY". - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

37. ADDED REMARK "MEA ON SEGMENTS FROM FIX TRISS TO FIX SHERO, FROM FIX NOBLY TO FIX ECKEY, AND FROM FIX CLARE TO FIX ROCKK DUE TO TTT VOR/DME ESV MRA ALONG EACH SEGMENT". - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

38. ADDED REMARK "MEA ON SEGMENT FROM FIX SHERO TO TXK VORTAC DUE TO TXK VORTAC ESV MRA ALONG SEGMENT". - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

39. ADDED REMARK "MEA ON SEGMENT FROM FIX SHERO TO TXK VORTAC DUE TO TXK VORTAC ESV MRA ALONG SEGMENT". - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

40. ADDED REMARK "MEA ON SEGMENT FROM FIX ROCKK TO GGG VORTAC DUE TO GGG VORTAC ESV MRA ALONG SEGMENT". - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

41. ADDED REMARK "MEA ON SEGMENTS FROM FIX ECKEY TO PRX VOR/DME AND FROM FIX ROCKK TO TYR VOR/DME DUE TO TTT VOR/DME ESV MRA AT FIX ECKEY AND AT FIX ROCKK". - DOCUMENTING REASON WHEN SEGMENT MEA IS NOT THE MOCA IN THE TRANSITION ROUTES (GRAPHIC DEPICTION ONLY) SECTION.

