04/01/2024

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 statue miles or feet RVR unless otherwise indicated.

TYPE: OBSTACLE COPTER SID SPECIAL RNAV	DP NAM	ACTUAL EFFECT 16 May 20	
	TYPE:		

DP ROUTE DESCRIPTION:

DETROIT METRO WAYNE COUNTY (KDTW):

TAKEOFF RWY 3L: CLIMB ON HEADING 035.71 TO INTERCEPT COURSE 069.88 TO CROSS BESST AT OR ABOVE 2500 AND AT OR BELOW 230 KIAS, THEN ON TRACK 128.00 TO CROSS SWNDL AT OR BELOW 7000, THEN ON TRACK 212.11 TO WERKN, THEN ON TRACK 214.79 TO CROSS PHAUL AT OR ABOVE 3100, THENCE...

TAKEOFF RWY 3R: CLIMB ON HEADING 035.71 TO INTERCEPT COURSE 064.45 TO CROSS BESST AT OR ABOVE 2500 AND AT OR BELOW 230 KIAS, THEN ON TRACK 128.00 TO CROSS SWNDL AT OR BELOW 7000, THEN ON TRACK 212.11 TO WERKN, THEN ON TRACK 214.79 TO CROSS PHAUL AT OR ABOVE 3100, THENCE...

TAKEOFF RWY 4L: CLIMB ON HEADING 035.68 TO INTERCEPT COURSE 347.26 TO CROSS NITRN AT OR ABOVE 2500 AND AT OR BELOW 230 KIAS, THEN ON TRACK 304.14 TO FERRM, THEN ON TRACK 258.76 TO CROSS AVERL AT OR BELOW 7000, THEN ON TRACK 199.38 TO OGEEZ, THEN ON TRACK 155.36 TO CROSS PHAUL AT OR ABOVE 3100, THENCE...

TAKEOFF RWY 4R: CLIMB ON HEADING 035.70 TO INTERCEPT COURSE 339.14 TO CROSS NITRN AT OR ABOVE 2500 AND AT OR BELOW 230 KIAS, THEN ON TRACK 304.14 TO FERRM, THEN ON TRACK 258.76 TO CROSS AVERL AT OR BELOW 7000, THEN ON TRACK 199.38 TO OGEEZ, THEN ON TRACK 155.36 TO CROSS PHAUL AT OR ABOVE 3100, THENCE...

TAKEOFF RWY 21L: CLIMB ON HEADING 215.72 TO INTERCEPT COURSE 204.45 TO SERGY, THEN ON TRACK 200.87 TO CROSS FDROV AT OR BELOW 7000, THEN ON TRACK 181.19 TO CROSS PHAUL AT OR ABOVE 3100, THENCE...

TAKEOFF RWY 21R: CLIMB ON HEADING 215.72 TO INTERCEPT COURSE 202.94 TO SERGY, THEN ON TRACK 200.87 TO CROSS FDROV AT OR BELOW 7000, THEN ON TRACK 181.19 TO CROSS PHAUL AT OR ABOVE 3100, THENCE...

TAKEOFF RWY 22L: CLIMB ON HEADING 215.71 TO 1146, THEN DIRECT BOOSE, THEN ON TRACK 226.35 TO CROSS RATIO AT OR BELOW 7000, THEN ON TRACK 164.97 TO CROSS PHAUL AT OR ABOVE 3100, THENCE...

TAKEOFF RWY 22R: CLIMB ON HEADING 215.69 TO 1146, THEN DIRECT EEERI, THEN ON TRACK 224.01 TO CROSS RATIO AT OR BELOW 7000, THEN ON TRACK 164.97 TO CROSS PHAUL AT OR ABOVE 3100, THENCE...

TAKEOFF RWY 27L: CLIMB ON HEADING 275.73 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THENCE ...

TAKEOFF RWY 27R: CLIMB ON HEADING 275.72 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN 17000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

WILLOW RUN (KYIP):

TAKEOFF RWY 5: CLIMB ON HEADING 052.70 TO 1220, THEN ON HEADING 300.00 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THENCE... TAKEOFF RWY 9: CLIMB ON HEADING 094.55 TO 1220, THEN ON HEADING 300.00 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THENCE... TAKEOFF RWY 23: CLIMB ON HEADING 232.72 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THENCE... TAKEOFF RWY 27: CLIMB ON HEADING 274.56 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THENCE...

...ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ANN ARBOR MUNI (KARB):

TAKEOFF RWY 6: CLIMB ON HEADING 059.53 OR AS ASSIGNED BY ATC, THENCE... TAKEOFF RWY 24: CLIMB ON HEADING 239.53 OR AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THEN ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

NALIT. 12

NFDD 063		04/01/2024			26
DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
CLVIN	THREE	CLVIN3.CLVIN	TWO	08/15/2019	16 May 2024

COLEMAN A YOUNG MUNI (KDET):

TAKEOFF RWY 15: CLIMB ON HEADING 148.32 OR AS ASSIGNED BY ATC, THENCE... TAKEOFF RWY 33: CLIMB ON HEADING 328.33 TO 1800 THEN AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THEN ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

CUSTER (KTTF):

TAKEOFF RWY 3: CLIMB ON HEADING 027.49 OR AS ASSIGNED BY ATC, THENCE... TAKEOFF RWY 21: CLIMB ON HEADING 207.50 OR AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THEN ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

GROSSE ILE MUNI (KONZ):

TAKEOFF RWY 4: CLIMB ON HEADING 037.34 TO 1200 THEN AS ASSIGNED BY ATC, THENCE...TAKEOFF RWY 17: CLIMB ON HEADING 173.78 OR AS ASSIGNED BY ATC, THENCE...TAKEOFF RWY 22: CLIMB ON HEADING 217.34 OR AS ASSIGNED BY ATC, THENCE...TAKEOFF RWY 35: CLIMB ON HEADING 005.78 TO 1800 THEN AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THEN ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

LIVINGSTON COUNTY SPENCER J HARDY (KOZW):

TAKEOFF RWY 13: CLIMB ON HEADING 132.35 OR AS ASSIGNED BY ATC, THENCE... TAKEOFF RWY 31: CLIMB ON HEADING 312.36 OR AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THEN ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

OAKLAND COUNTY INTL (KPTK):

TAKEOFF RWY 9L: CLIMB ON HEADING 094.66 OR AS ASSIGNED BY ATC, THENCE... TAKEOFF RWY 9R: CLIMB ON HEADING 094.63 OR AS ASSIGNED BY ATC, THENCE... TAKEOFF RWY 27L: CLIMB ON HEADING 274.65 OR AS ASSIGNED BY ATC, THENCE... TAKEOFF RWY 27R: CLIMB ON HEADING 274.68 OR AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THEN ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

OAKLAND/TROY (KVLL):

TAKEOFF RWY 10: CLIMB ON HEADING 095.71 TO 1400 THEN AS ASSIGNED BY ATC, THENCE... TAKEOFF RWY 28: CLIMB ON HEADING 275.72 TO 1500 THEN AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THEN ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

NFDD 063		04/01/2024			27
DP NAME CLVIN	<u>NUMBER</u> THREE	DP COMPUTER CODE CLVIN3.CLVIN	SUPERSEDED NUMBER TWO	DATED 08/15/2019	ACTUAL EFFECTIVE DATE
					10 Way 2024

SELFRIDGE ANGB (KMTC):

TAKEOFF RWY 1: CLIMB ON HEADING 007.47 OR AS ASSIGNED BY ATC, THENCE... TAKEOFF RWY 19: CLIMB ON HEADING 187.47 OR AS ASSIGNED BY ATC, THENCE...

...FOR RADAR VECTORS TO CROSS PHAUL AT OR ABOVE 3100, THEN ON TRACK 205.79 TO CLVIN, THEN ON (TRANSITION). MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	<u>FROM</u> FIX/NAVAID	<u>TO</u> <u>FIX/NAVAID</u>	COURSE	DISTANCE	<u>MEA</u>	MOCA	CROSSING ALTITUDE/FIXES
STAZE	CLVIN3.STAZE	CLVIN	TFTUN	TRACK 205.70	34.61	10000	2500	
		TFTUN	RINTE	TRACK 205.55	35.30	10000	2600	
		RINTE	PUUDL	TRACK 190.43	10.04	10000	2600	
		PUUDL	STAZE	TRACK 190.44	71.07	10000	2500	

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS.

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: TURBOJET DEPARTURES AT/ABOVE 10000, MAINTAIN 280K UNTIL ADVISED BY ATC.

TAKEOFF MINIMUMS:

DETROIT METRO WAYNE COUNTY (KDTW): RWY 27L, 27R: STANDARD. RWY 3L, 3R, 4L, 4R, 21L, 21R, 22L, 22R: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1146.

WILLOW RUN (KYIP):

RWY 23: STANDARD. RWY 5, 9: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1220. RWY 27: STANDARD WITH MINIMUM CLIMB OF 209 FT/NM TO 1000.

ANN ARBOR MUNI (KARB):

RWY 12, 30: NA - ENVIRONMENTAL. RWY 6, 24: STANDARD.

COLEMAN A YOUNG MUNI (KDET): RWY 15, 33: STANDARD.

CUSTER (KTTF): RWY 3, 21: STANDARD.

GROSSE ILE MUNI (KONZ):

RWY 4, 17, 22: STANDARD. RWY 35: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1100.

NFDD 063		04/01/2024			28
DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
CLVIN	THREE	CLVIN3.CLVIN	TWO	08/15/2019	16 May 2024
LIVINGSTON COUNTY SPENCER J HARDY (KOZW):					

RWY 13, 31: STANDARD.

OAKLAND COUNTY INTL (KPTK): RWY 18, 36: NA - ENVIRONMENTAL. RWY 9L, 9R, 27L, 27R: STANDARD.

OAKLAND/TROY (KVLL): RWY 10: STANDARD. RWY 28: STANDARD WITH MINIMUM CLIMB OF 476 FT/NM TO 1500.

SELFRIDGE ANGB (KMTC): RWY 1: STANDARD. RWY 19: STANDARD WITH MINIMUM CLIMB OF 235 FT/NM TO 1500.

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

CONTROLLING OBSTACLES: WILLOW RUN (KYIP): RWY 27: 903 FT MSL TOWER 421431.80N/0833411.49W.

COLEMAN A YOUNG MUNI (KDET): OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 33: 1749 FT MSL TOWER 422653.00N/0831023.00W.

GROSSE ILE MUNI (KONZ): RWY 35: 1146 FT MSL STACK 420718.61N/0831050.62W.

OAKLAND/TROY (KVLL): RWY 28: 905 FT MSL BUILDING 423232.54N/0831234.07W. OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 10, 28: 1724 FT MSL TOWER 422858.46N/0831218.94W.

SELFRIDGE ANGB (KMTC): RWY 19: 1246 FT MSL TOWER 423312.00N/0825315.00W.

MSA: KDTW: MSA FROM KDTW, 2800. KYIP: MSA FROM KYIP, 3000. KARB: MSA FROM KARB, 3000. KDET: MSA FROM KDET, 2800. KTTF: MSA FROM KDTF, 3100. KONZ: MSA FROM KONZ, 3100. KOZW: MSA FROM KOZW, 3000. KPTK: MSA FROM KVLL, 2900. KMTC: MSA FROM KVLL, 2800.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0) AIRPORT MV: DTW (P) 7W/2020, ARB 5W/1985, DET 5W/1980, MTC 6W/1985, ONZ 7W/2010, OZW 5W/1990, PTK 7W/2020, TTF 5W/1980, VLL 6W/1995, YIP 6W/1995.



NFDD 063		04/01/2024			29
DP NAME CLVIN	NUMBER THREE		SUPERSEDED NUMBER TWO	DATED	ACTUAL EFFECTIVE DATE
DETROIT METRO WAYNE COUNTY - CHART: TOP ALTITUDE: 17000 ALL OTHER AIRPORTS - CHART: TOP ALTITUDE: ASSIGNED BY ATC. CHART: MINIMUM CROSSING ALTITUDE AT PHAUL - 3100. CHART SPEED ICON MAXIMUM SPEED 230 KIAS AT BESST. CHART SPEED ICON MAXIMUM SPEED 230 KIAS AT NITRN.	INKEE	CLVIN3.CLVIN	TWO	08/15/2019	16 May 2024
AIRPORTS SERVED:					
AIRPORT ID		<u>CITY</u>			STATE
KDTW		DETROIT			MI
KYIP		DETROIT			MI
KARB		ANN ARBOR			MI
KDET		DETROIT			MI
KTTF		MONROE			MI
KONZ	[DETROIT/GROSSE ILE			MI
KOZW		HOWELL			MI
КРТК		PONTIAC			MI
KVLL		TROY			MI
КМТС		MOUNT CLEMENS			MI

COMMUNICATIONS:

CHART: ATIS, AWOS/ASOS, CLNC DEL, GND CON, TWR, CTAF, CPDLC.

FIXES AND/OR NAVAIDS:

REMARKS:

1. 100 FT MAXIMUM VEGETATION HEIGHT UTILIZED PER FPT CHECKLIST.
 2. CHANGES TO THIS PROCEDURE MUST BE COORDINATED WITH NAVCANADA, AERONAUTICAL INFORMATION MANAGEMENT (AIM), AIMDATA@NAVCANADA.CA (CURRENT POC IS CHARLES SIMARD, 613-248-3819, SIMACHA@NAVCANADA.CA).
 3. KDTW CHART NOTE: SEE ADDITIONAL REQUIREMENTS ON AAUP.
 4. KDTW RWY 3L, 3R, 4L, 4R, 21L, 21R, 22L, 22R DEPARTURES EARLY TURN AND SHORTENED ICA REQUIRED DUE TO SIMULTANEOUS DEPARTURES.

5. KYIP RWY 5, 9 DEPARTURES EARLY TURN AND SHORTENED ICA REQUIRED DUE TO KDTW AIR TRAFFIC FLOW.

6. MEA BASED ON LOWEST DME/DME COVERAGE.

NFDD 063			04/01/2024			30
DP NAME		NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
CLVIN		THREE	CLVIN3.CLVIN	TWO	08/15/2019	16 May 2024
FLIGHT INSPECTED BY	SIGNATURE			OFFICE	DATE	
SCOTT WIEBE	Digitally signed by			FPO	03/08/2024	
	ERIC N SUSKI					
DEVELOPED BY	Mar 12, 2024 <u>SIGNATURE</u>			OFFICE	DATE	
MICHAEL MCCARTNEY	Digitally signed by MICHAEL A MCCARTNEY	r		AJV-A431	11/06/2023	
	Jan 23, 2024					
APPROVED BY	SIGNATURE			OFFICE	DATE	TITLE
ERIC N. SUSKI	Digitally signed by			AJV-A431		MANAGER
REQUIRED EFFECTIVE DATE	ERIC N SUSKI					
ROUTINE	Mar 12, 2024					
COORDINATED WITH:						
		OTHER: ZOB	, DTW APP CON, AMGR(S), N	IAVCANADA		
CHANGES - REASONS: 1. AIRPORT NAME, CHANGED ALL KDTW AIRPORT NA 2. DELETED ALL CYQG DATA FROM DP ROUTE DESCF 3. DELETED KYIP RWY 51 23R REFERENCES AND CH	RIPTION, TAKEOFF MININ	MUMS, AND A	IRPORTS SERVED AIRPOR	RT REMOVED FROM SID PER	NAVCANADA REQUE	EST.

3. DELETED KYIP RWY 5L, 23R REFERENCES AND CHANGED RUNWAY NUMBERS FROM RWY 5R TO RWY 5 AND FROM RWY 23L TO RWY 23 IN DP ROUTE DESCRIPTION AND TAKEOFF MINIMUMS. -RUNWAY 5L, 23R DECOMMISSIONED AND RWY 5R, 23L RENUMBERED ON 10/06/2022.

4. DELETED KDET RWY 7, 25 REFERENCES IN DP ROUTE DESCRIPTION, TAKEOFF MINIMUMS AND RWY 25 CONTROLLING OBSTACLE. - RUNWAY IS GOING TO BE DECOMMISSIONED. 5. CHANGED KVLL RWYS FROM RWY 9, 27 TO RWY 10, 28. - RUNWAYS WERE RENUMBERED ON 02/10/2021.

DP ROUTE DESCRIPTION, ALL RUNWAY TRANSITIONS, CHANGED FIX PHAUL MINIMUM CROSSING ALTITUDE FROM 4000 TO 3100. - LOWERED TO OBSTACLE-BASED PER ATC REQUEST.
 DP ROUTE DESCRIPTION, CHANGED KDTW RWY 3L, 3R TRANSITION TRACK ON FIX SWNDL TO FIX WERKN SEGMENT FROM TRACK 212.12 TO TRACK 212.11. - UPDATED EVALUATION.
 DP ROUTE DESCRIPTION, DELETED KDTW RWY 4L, 4R MINIMUM CROSSING ALTITUDE 6000 AT FIX FERRM AND UPDATED VERBIAGE FROM "THEN ON TRACK 304.14 TO CROSS FERRM AT OR BELOW 6000" TO "THEN ON TRACK 304.14 TO FERRM". - ATC REQUESTED AND ALTITUDE AT FERRM NO LONGER NEEDED.

9. DP ROUTE DESCRIPTION, CHANGED KDTW RWY 27L FROM "CLIMB ON HEADING 275.73 TO 1146, THEN ON HEADING 275.71 OR AS ASSIGNED FOR RADAR VECTORS" TO "CLIMB ON HEADING 275.73 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS". - EARLY TURN AND LNAV ENGAGEMENT ALTITUDE NOT REQUIRED, SEGMENTS CHANGED FROM VA-VM LEGS TO VM LEG; FORMAT IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.C.(7).

10. DP ROUTE DESCRIPTION, CHANGED KDTW RWY 27R FROM "CLIMB ON HEADING 275.72 TO 1146, THEN ON HEADING 275.70 OR AS ASSIGNED FOR RADAR VECTORS" TO "CLIMB ON HEADING 275.72 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS". - EARLY TURN AND LNAV ENGAGEMENT ALTITUDE NOT REQUIRED, SEGMENTS CHANGED FROM VA-VM LEGS TO VM LEG; FORMAT IAW FAAO 8260.46J APPENDIX E.SECTION 1.2.C.(7).

11. DP ROUTE DESCRIPTION, DELETED KDTW TOP ALTITUDE VERBIAGE "OR AS ASSIGNED BY ATC". - KDTW HAS A NUMERIC TOP ALTITUDE 17000 CHARTED FOR ALL RUNWAYS. 12. DP ROUTE DESCRIPTION, CHANGED KYIP TAKEOFF RWY 5 FROM "CLIMB ON HEADING 053.70 TO 1220, THEN LEFT TURN HEADING 300.00 FOR RADAR VECTORS" TO "CLIMB ON HEADING 052.70 TO 1220, THEN ON HEADING 300.00 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS". - CLIMB ON HEADING MAG VAR CHANGED FROM KDTW (7W/2020) TO KYIP (6W/1995) IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022; ATC REQUESTED TO ADD ATC ASSIGNED HEADINGS ON VM LEG.

13. DP ROUTE DESCRIPTION, CHANGED KYIP TAKEOFF RWY 9 FROM "CLIMB ON HEADING 095.55 TO 1220, THEN LEFT TURN HEADING 300.00 FOR RADAR VECTORS" TO "CLIMB ON HEADING 094.55 TO 1220, THEN ON HEADING 300.00 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS". - CLIMB ON HEADING MAG VAR CHANGED FROM KDTW (7W/2020) TO KYIP (6W/1995) IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022; ATC REQUESTED TO ADD ATC ASSIGNED HEADINGS ON VM LEG.

14. DP ROUTE DESCRIPTION, CHANGED KYIP TAKEOFF RWY 23 FROM "CLIMB ON HEADING 233.72 TO 1220, THEN ON HEADING 233.70 FOR RADAR VECTORS" TO "CLIMB ON HEADING 232.72 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS". - EARLY TURN AND LNAV ENGAGEMENT ALTITUDE NOT REQUIRED, SEGMENT CHANGED FROM VA-VM TO VM LEG; CLIMB ON HEADING MAG VAR CHANGED FROM KDTW (7W/2020) TO KYIP (6W/1995) IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022; ATC REQUESTED TO ADD ATC ASSIGNED HEADINGS ON VM LEG.

15. DP ROUTE DESCRIPTION, CHANGED KYIP TAKEOFF RWY 27 FROM "CLIMB ON HEADING 275.57 TO 1220, THEN ON HEADING 275.56 FOR RADAR VECTORS" TO "CLIMB ON HEADING 274.56 OR AS ASSIGNED BY ATC, FOR RADAR VECTORS". - EARLY TURN AND LNAV ENGAGEMENT ALTITUDE NOT REQUIRED, SEGMENT CHANGED FROM VA-VM TO VM LEG; UPDATED RUNWAY SURVEY 12/20/2022; CLIMB ON HEADING MAG VAR CHANGED FROM KDTW (7W/2020) TO KYIP (6W/1995) IAW AJV-A MEMO "MAGNETIC VARIATION DOCUMENTATION FOR STANDARD INSTRUMENT DEPARTURES AND GRAPHIC OBSTACLE DEPARTURE PROCEDURES" DATED 07/15/2022; ATC REQUESTED TO ADD ATC ASSIGNED HEADINGS ON VM LEG.

16. DP ROUTE DESCRIPTION, KARB, KDET, KONZ, KOZW, KTTF, KPTK, KVLL AND KMTC, CHANGED ATC ASSIGNED HEADING VERBIAGE FROM "OR AS ASSIGNED" TO "OR AS ASSIGNED BY ATC", 12

NFDD 063		04/01/2024			31
DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
CLVIN	THREE	CLVIN3.CLVIN	TWO	08/15/2019	16 May 2024
	THREE THE THREE	CLVIN3.CLVIN DESCRIPTIONS TO THE SHA UPDATED VERBIAGE IAW FA ED PER ATC REQUEST TO RE EMENT NOTES AND UPDATE PARAGRAPH 2-1-1.F. 1 REQUIREMENT NOTES AND TO ACCEPT 500 FT PER NM C TO "FT/NM" FORMAT IAW FA 146" TO "STANDARD" EARLY ANDARD" AND RWY 27 FROM 3 GRADIENT AND MATCHES C ANDARD TAKEOFF MINIMUM NM TO 235 FT/NM UPDATEL 00W (MOVED 303.71 FT SOUT PUNCTUATION IAW FAAO 8260 AT/LONG FROM 421431.78N/C ATING ODP ROUTE DEVELOF NG FIXED TYPO. DM 940 FT MSL BLDG 423234. ND RETAINED CLIMB GRADIE /ELOPMENT: RWY 10, 28: 172 .2.J.(3). IG FROM 423315.00N/0825315 I 1.2.K. PDATED KDTW FORMAT FROM DOCUMENTATION FOR STAN ITUDE: KDTW 17000" TO "DE ORTS - CHART: TOP ALTITUE 3100. " - IF CROSSING ALTI' ATING DEP CON CHARTED A DC HANGED VERBIAGE FROM	TWO RED ROUTE DESCRIPTIONS TO AO 8260.46J APPENDIX E.SECT EDUCE CHART CLUTTER" MO ED VERBIAGE FROM "NOTE: RN D DELETED "NOTE:" DOCUME CLIMB RATE, ADVISE CLEARANG AAO 8260.46J APPENDIX E.SECT Y TURN AND LNAV ENGAGEME I "500 FT PER NM TO 1220" TO " ODP TAKEOFF MINIMUMS. S IAW FAAO 8260.46J APPENDI IMS INSTRUMENT DEPARTI INDARD INSTRUMENT DEPARTI	08/15/2019 TO READ "FOR RAE TION 1.2.C AND CON DCA REQUIRED IAW NAV 1" AND "NOTE: I ENTATION IAW FAAC ICE DELIVERY ON IN CTION 1.2.H. ENT CLIMB GRADIEN "209 FT/NM TO 1000 NX E.SECTION 1.2.H. NDIX E.SECTION 1.2.H. N	16 May 2024 DAR VECTORS TO CROSS INSOLIDATED SHARED V FAAO 8260.46J APPENDIX E. DME/DME/IRU OR GPS O 8260.46J APPENDIX E. NITIAL CONTACT" ENT NOT REQUIRED; LOWERED O" EARLY TURN AND LNAV 4.(2). 2.H.(2). 1246 FT MSL TOWER BY OBSTACLE DATA TEAM. D 2.52 FT NORTHWEST) HIS OBSTACLE IS REASON 858.00N/0831219.00W (CGTA) HED ODP AND REDUCE PILOT S UPDATED OBSTACLE IS 1 FT SOUTH) DATABASE IRPORT MV: DTW (P) 7W/2020". IC OBSTACLE DEPARTURE LTITUDE: 17000" AND FROM 0.46J APPENDIX E.SECTION PH 2-1-1.M.(3). 1-1.E.(4)(B). E.SECTION 1.2.O.
					OUAL/71
					12 Strecker

NFDD 063

04/01/2024

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE DEPARTURE (DATA RECORD)

DP NAME						NUMBER	URE (DATA RECO DP COMPUTER C		SEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
CLVIN						THREE	CLVIN3.CLVIN		TWO	08/15/2019	16 May 2024
FIX/NAVAID	LAT/LONG	<u>c</u>	FO/FB	<u>LEG</u> TYPE	TC	<u>DIST</u> (NM)	ALTITUDE	SPEED		REMARKS	
	DETROIT METRO WAYNE COUNTY (KDTW)										
RW03L (AER)	421228.21N/0832104.39W	Ν	-	-	-	-				CG 500 FT PER NM T	D 1146
-	421436.03N/0831930.16W	-	-	VI	028.71	2.43					
BESST	421656.69N/0831321.04W	Y	FB	CF	062.88	5.13	AT/ABOVE 2500	AT/BELOW 230K			
SWNDL	421255.80N/0830422.44W	Y	FB	TF	121.00	7.78	AT/BELOW 7000				
WERKN	415920.13N/0831254.75W	Y	FB	TF	205.11	15.00					
PHAUL	414232.50N/0832443.11W	Y	FB	TF	207.79	18.96	AT/ABOVE 3100				
RW03R (AER)	421144.21N/0832106.49W	Ν	-	-	-	-				CG 500 FT PER NM T	D 1146
-	421404.99N/0831922.74W	-	-	VI	028.71	2.67					
BESST	421656.69N/0831321.04W	Y	FB	CF	057.45	5.31	AT/ABOVE 2500	AT/BELOW 230K			
SWNDL	421255.80N/0830422.44W	Y	FB	TF	121.00	7.78	AT/BELOW 7000				
WERKN	415920.13N/0831254.75W	Y	FB	TF	205.11	15.00					
PHAUL	414232.50N/0832443.11W	Y	FB	TF	207.79	18.96	AT/ABOVE 3100				
RW04L (AER)	421207.82N/0832302.40W	Ν	-	-	-	-				CG 500 FT PER NM TO	D 1146
	421427.54N/0832119.53W	-	-	VI	028.68	2.65					
NITRN	421943.95N/0832352.28W	Y	FB	CF	340.26	5.60	AT/ABOVE 2500	AT/BELOW 230K			
FERRM	422158.09N/0832945.62W	Y	FB	TF	297.14	4.91					
AVERL	421955.54N/0833805.48W	Y	FB	TF	251.76	6.51	AT/BELOW 7000				
OGEEZ	420423.55N/0834240.04W	Y	FB	TF	192.38	15.90					
PHAUL	414232.50N/0832443.11W	Y	FB	TF	148.36	25.63	AT/ABOVE 3100				
											CHECKE

NFDI						04/01/2024				33	
DP NAME						NUMBER	DP COMPUTER CO	ODE SUPER	SEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
CLVIN						THREE	CLVIN3.CLVIN		TWO	08/15/2019	16 May 2024
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	LEG TYPE	TC	<u>DIST</u> (NM)	ALTITUDE	SPEED		REMARKS	
RW04R (AER)*	421212.78N/0832213.32W*	Ν	-	-	-	-				*DISPL THLD (509 CG 500 FT PER NM T	
-	421446.08N/0832020.37W	-	-	VI	028.70	2.91					
NITRN	421943.95N/0832352.28W	Y	FB	CF	332.14	5.61	AT/ABOVE 2500	AT/BELOW 230K			
FERRM	422158.09N/0832945.62W	Y	FB	TF	297.14	4.91					
AVERL	421955.54N/0833805.48W	Y	FB	TF	251.76	6.51	AT/BELOW 7000				
OGEEZ	420423.55N/0834240.04W	Υ	FB	TF	192.38	15.90					
PHAUL	414232.50N/0832443.11W	Y	FB	TF	148.36	25.63	AT/ABOVE 3100				
RW21L (AER)	421310.86N/0832002.65W	Ν	-	-	-	-				CG 500 FT PER NM TO	O 1146
	421050.18N/0832146.27W	-	-	VI	208.72	2.67					
SERGY	420429.17N/0832427.29W	Y	FB	CF	197.45	6.65					
FDROV	415731.95N/0832645.35W	Υ	FB	TF	193.87	7.16	AT/BELOW 7000				
PHAUL	414232.50N/0832443.11W	Y	FB	TF	174.19	15.06	AT/ABOVE 3100				
RW21R (AER)	421341.86N/0832010.11W	Ν	-	-	-	-				CG 500 FT PER NM TO	O 1146
-	421134.56N/0832143.90W	-	-	VI	208.72	2.42					
SERGY	420429.17N/0832427.29W	Y	FB	CF	195.94	7.37					
FDROV	415731.95N/0832645.35W	Y	FB	TF	193.87	7.16	AT/BELOW 7000				
PHAUL	414232.50N/0832443.11W	Y	FB	TF	174.19	15.06	AT/ABOVE 3100				

NFDD 063							04/01/2024			34
DP NAME CLVIN						NUMBER THREE	DP COMPUTER CODE CLVIN3.CLVIN	E SUPERSEDED NUMBER TWO	<u>DATED</u> 08/15/2019	ACTUAL EFFECTIVE DATE 16 May 2024
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	LEG TYPE	<u>TC</u>	<u>DIST</u> (NM)	ALTITUDE	SPEED	REMARKS	
RW22L (AER)	421352.36N/0832059.97W	N	-	-	-	-			CG 500 FT PER NM TC	J 1146
1146 MSL	-	-	-	VA	208.71	-	AT/ABOVE 1146			
BOOSE	421002.00N/0832349.56W	Y	FB	DF	-	-				
RATIO	420025.84N/0833422.45W	Y	FB	TF	219.35	5 12.40	AT/BELOW 7000			
PHAUL	414232.50N/0832443.11W	Y	FB	TF	157.97	19.28	AT/ABOVE 3100			
RW22R (AER)	421334.48N/0832158.61W	N	-	-	-	-			CG 500 FT PER NM TO) 1146
1146 MSL	-	-	-	VA	208.69) -	AT/ABOVE 1146			
EEERI	421022.39N/0832419.94W	Y	FB	DF	-					
RATIO	420025.84N/0833422.45W	Y	FB	TF	217.01	12.44	AT/BELOW 7000			
PHAUL	414232.50N/0832443.11W	Y	FB	TF	157.97	19.28	AT/ABOVE 3100			
RW27L (AER)	421158.34N/0831949.33W	Ν	-	-	-	-				
-	-	-	-	VM	268.73	5 -				
RW27R (AER)	421303.02N/0831951.71W	Ν	-	-	-	-				
-	-	-	-	VM	268.72					
	WILLOW RUN (KYIP)									
RW05 (AER)	421350.25N/0833223.46W	Ν	-	-	-	-				
1220 MSL	-	-	-	VA	046.70) –	AT/ABOVE 1220		CG 500 FT PER NM TC) 1220
-	-	-	-	VM	294.00) –				
										UALIX
										12
										CHECKED

NFD						04/01/2024			35	
DP NAME						NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
CLVIN						THREE	CLVIN3.CLVIN	TWO	08/15/2019	16 May 2024
FIX/NAVAID	LAT/LONG	<u>C</u>	FO/FB	<u>LEG</u> TYPE	TC	<u>DIST</u> (NM)	ALTITUDE	SPEED	REMARKS	
RW09 (AER)	421438.22N/0833235.98W	Ν	-	-	-	-				
1220 MSL	-	-	-	VA	088.55	-	AT/ABOVE 1220		CG 500 FT PER NM T	O 1220
-	-	-	-	VM	294.00	-				
RW23 (AER)	421441.34N/0833110.47W	Ν	-	-	-	-				
-	-	-	-	VM	226.72					
RW27 (AER)	421439.47N/0833129.51W	Ν	-	-	-	-				
-	-	-	-	VM	268.56	-			CG 209 FT PER NM T	O 1000
PHAUL	414232.50N/0832443.11W	Y	-	IF	-	-	AT/ABOVE 3100			
CLVIN	412335.57N/0833316.68W	Y	FB	TF	198.79	20.00				
CLVIN	412335.57N/0833316.68W	Y	-	-	-	-			CLVIN3.STAZE	<u> </u>
TFTUN	405046.21N/0834753.90W	Y	FB	TF	198.70	34.61				
RINTE	401716.11N/0840234.51W	Y	FB	TF	198.55	35.30				
PUUDL	400714.40N/0840321.44W	Y	FB	TF	183.43	10.04				
STAZE	385613.92N/0840849.12W	Y	FB	TF	183.44	71.07				