

**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SUPERSEDED NUMBER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>
METRO	FOUR	METRO4.DXO	THREE	11/05/2020	05 SEP 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:
DETROIT METRO WAYNE COUNTY (KDTW):**

TAKEOFF ALL RWYS: CLIMB ON ASSIGNED HEADING. MAINTAIN ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO INTERCEPT FILED/ASSIGNED TRANSITION OR ENROUTE FIX/NAVAID. WHEN ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

ALL AIRCRAFT: ATC CLIMB GRADIENT: IF UNABLE TO ACCEPT CLIMB RATE, ADVISE ATC PRIOR TO TAXI.

- RWY 3R:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 820 FT/NM TO 2500.
- RWY 3L:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 737 FT/NM TO 2500.
- RWY 4R:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 856 FT/NM TO 2500.
- RWY 4L:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 669 FT/NM TO 2500.
- RWY 9R:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 1046 FT/NM TO 2500.
- RWY 9L:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 988 FT/NM TO 2500.
- RWY 21R:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 538 FT/NM TO 2500.
- RWY 21L:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 687 FT/NM TO 2500.
- RWY 22R:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 742 FT/NM TO 2500.
- RWY 22L:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 661 FT/NM TO 2500.
- RWY 27R:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 511 FT/NM TO 2500.
- RWY 27L:** CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 521 FT/NM TO 2500.

ANN ARBOR MUNI (KARB) :

TAKEOFF RWY 6, 24: CLIMB ON ASSIGNED HEADING. MAINTAIN ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO INTERCEPT FILED/ASSIGNED TRANSITION OR ENROUTE FIX/NAVAID. WHEN ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

OAKLAND COUNTY INTL (KPTK):

TAKEOFF RWY 9L, 9R, 27L, 27R: CLIMB ON ASSIGNED HEADING. MAINTAIN ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO INTERCEPT FILED/ASSIGNED TRANSITION OR ENROUTE FIX/NAVAID. WHEN ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

COLEMAN A YOUNG MUNI (KDET):

TAKEOFF RWY 15: CLIMB ON ASSIGNED HEADING, THENCE...
TAKEOFF RWY 33: CLIMB ON HEADING 328.33 TO 1800, THEN ON ASSIGNED HEADING, THENCE...

...MAINTAIN ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO INTERCEPT FILED/ASSIGNED TRANSITION OR ENROUTE FIX/NAVAID. WHEN ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.



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WILLOW RUN (KYIP):

TAKEOFF ALL RWYS: CLIMB ON ASSIGNED HEADING. MAINTAIN ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO INTERCEPT FILED/ASSIGNED TRANSITION OR ENROUTE FIX/NAVAID. WHEN ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE.

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>
DUNKS	METRO4.DUNKS	DXO VOR/DME	DUNKS	295.91 (DXO R-296)	39.01	3000	3000	
HARWL	METRO4.HARWL	DXO VOR/DME	HARWL	281.00 (DXO R-281)	37.00	3000	2600	
ILLIE	METRO4.ILLIE	DXO VOR/DME	ANNTS	217.00 (DXO R-217)	37.00	3000	2100	
		ANNTS	ILLIE	217.00 (DXO R-217)	30.31	16000	2100	
MAARS	METRO4.MAARS	DXO VOR/DME	MAARS	106.49 (DXO R-106)	40.00	3000	2400	
PISTN	METRO4.PISTN	DXO VOR/DME	PISTN	019.99 (DXO R-020)	42.00	3000	2800	

PBN REQUIREMENT NOTES:

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED
DME REQUIRED

PROCEDURAL DATA NOTES:

NOTE: FOR USE BY NON-RNAV EQUIPPED AIRCRAFT ONLY.
NOTE: WHEN USING THIS DEPARTURE, FILE THE APPROPRIATE DEPICTED DEPARTURE FIX AND ROUTE. AIRCRAFT OVER HARWL MUST FILE FL220 AND BELOW. AIRCRAFT LANDING CLEVELAND (CLE) MUST FILE MAARS TRANSITION. TURBOJET DEPARTURES AT/ABOVE 10000, MAINTAIN 280K UNTIL ADVISED BY ATC. IF UNABLE, ADVISE ATC PRIOR TO DEPARTURE.
SPECIAL INSTRUCTIONS: FOR APPROPRIATE DEPARTURE CONTROL FREQUENCY, SEE GRAPHIC. USE FREQUENCY DEPICTED WITHIN THE SECTOR WHERE FIRST NAVAID/FIX FOR YOUR ROUTE IS LOCATED (SECTORS INDICATED BY DASHED LINES; FREQUENCIES IN DASHED BOX WITHIN).

TAKEOFF MINIMUMS:

DETROIT METRO WAYNE COUNTY (KDTW):
RWY 3R, 3L, 4R, 4L, 9R, 9L, 21R, 21L, 22R, 22L, 27R, 27L: STANDARD

ANN ARBOR MUNI (KARB):

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

OAKLAND COUNTY INTL (KPTK):

RWY 18, 36: NA - ENVIRONMENTAL.
RWY 9L, 9R, 27L, 27R: STANDARD.

COLEMAN A YOUNG MUNI (KDET):

RWY 15, 33: STANDARD.



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WILLOW RUN (KYIP):

RWY 5, 9, 23: STANDARD.

RWY 27: 300-1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 209 FT PER NM TO 1000, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1300 FT PRIOR TO DEPARTURE END OF RUNWAY.

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 STACK 422653.00N/0831023.00W.

MSA:

KDTW: MSA FROM DXO VOR/DME, 2800.

KYIP: MSA FROM DXO VOR/DME, 2800.

KARB: MSA FROM DXO VOR/DME, 2800.

KDET: MSA FROM DXO VOR/DME, 2800.

KPTK: MSA FROM DXO VOR/DME, 3100 (30NM).

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

DETROIT METROPOLITAN WAYNE COUNTY (KDTW) - CHART: TOP ALTITUDE: ASSIGNED BY ATC.

COLEMAN A YOUNG MUNI (KDET) - CHART: TOP ALTITUDE: 3000.

WILLOW RUN (KYIP) - CHART: TOP ALTITUDE: 3000.

ANN ARBOR MUNI (KARB) - CHART: TOP ALTITUDE: 3000.

OAKLAND COUNTY INTL (KPTK) - CHART: TOP ALTITUDE: 3000.

CHART: DASHED LINE DEPICTING DETROIT DEP CON EAST SECTOR FROM DXO VORTAC R-030 CW TO R-180

CHART: DASHED LINE DEPICTING DETROIT DEP CON WEST SECTOR FROM DXO VORTAC R-180 CW TO R-030.

CHART IN A BOX: DETROIT DEP CON EAST FREQUENCY IN EAST SECTOR.

CHART IN A BOX: DETROIT DEP CON SOUTH/WEST/NORTH FREQUENCY IN WEST SECTOR.

AIRPORT MV: DTW (P) 7W/2020, ARB 5W/1985, DET 5W/1980, PTK 7W/2020, YIP 6W/1995.

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KDTW	DETROIT	MI
KDET	DETROIT	MI
KYIP	DETROIT	MI
KPTK	PONTIAC	MI
KARB	ANN ARBOR	MI

COMMUNICATIONS:

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



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FIXES AND/OR NAVAIDS:

REMARKS:
 100 FT VEGETATION USED PER FPT CHECKLIST.
 WAIVER TO PUBLISH ATC CLIMB GRADIENT AND APPROVAL TO EXCEED 500 FT/NM CG AT KDTW AND TO PUBLISH SPECIAL INSTRUCTIONS.
REMARKS: DO NOT CHART MOCA: FROM DXO VOR/DME TO DUNKS, FROM DXO VOR/DME TO HARWL, FROM DXO VOR/DME TO PISTN.

<u>FLIGHT INSPECTED BY</u>	<u>SIGNATURE</u>	<i>Digitally signed by</i> BEV L BORDY May 09, 2024	<u>OFFICE</u> FICO	<u>DATE</u> 3/7/2024	
SCOTT WEIBE					
<u>DEVELOPED BY</u>	<u>SIGNATURE</u>	<i>Digitally signed by</i> CHARLES HIRST Apr 30, 2024	<u>OFFICE</u> AJV-A431	<u>DATE</u> 12/19/2023	
HIRST, CHARLES K					
<u>APPROVED BY</u>	<u>SIGNATURE</u>	<i>Digitally signed by</i> BEV L BORDY May 09, 2024	<u>OFFICE</u> AJV-A431	<u>DATE</u>	<u>TITLE</u> MANAGER
SUSKI, ERIC N					

REQUIRED EFFECTIVE DATE

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:**ZOB, AMGRS, DTW DEP CON., NAVCANADA.



CHANGES - REASONS:

1. DP ROUTE DESCRIPTION CHANGED KDTW AIRPORT NAME FROM DETROIT METROPOLITAN WAYNE COUNTY TO DETROIT METRO WAYNE COUNTY - UPDATED TO MATCH CORRECT APRT NAME IN AIRNAV
2. DP ROUTE DESCRIPTION REMOVED WINDSOR (CYQG) APRT AND ALL ASSOCIATED RWYS AND INSTRUCTIONS - APRT NO LONGER SERVED BY PROCEDURE PER CHECKLIST
3. DP ROUTE DESCRIPTION REMOVED KDET RWYS 7 & 25 FROM PROCEDURE - RWYS NO LONGER IN USE
4. DP ROUTE DESCRIPTION CHANGED KYIP FROM "TAKE-OFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING THENCE..." TO "**TAKEOFF ALL RWYS:** CLIMB ON ASSIGNED HEADING. MAINTAIN ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO INTERCEPT FILED/ASSIGNED TRANSITION OR ENROUTE FIX/NAVAID. WHEN ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE." - UPDATED VERBIAGE IAW 8260.46J APPENDIX D SECTION 2 AND DUE TO REMOVAL OF RWYS 5L/23R, REMOVAL OF THENCE IAW 8260.46J SECTION 2 PARA 2C
5. DP ROUTE DESCRIPTION CHANGED KDTW FROM "TAKE-OFF ALL RUNWAYS: CLIMB ON ASSIGNED HEADING THENCE..." TO "**TAKEOFF ALL RWYS:** CLIMB ON ASSIGNED HEADING. MAINTAIN ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO INTERCEPT FILED/ASSIGNED TRANSITION OR ENROUTE FIX/NAVAID. WHEN ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE." - UPDATED VERBIAGE IAW 8260.46J APPENDIX D SECTION 2, REMOVAL OF THENCE IAW 8260.46J SECTION 2 PARA 2C
6. DP ROUTE DESCRIPTION CHANGED KDET FROM "TAKE-OFF RWY 15.." TO "TAKEOFF RWY 15..." FOR RWY 15 - UPDATED VERBIAGE IAW 8260.46J APPENDIX D SECTION 2 AND PENDING DECOMMISSIONING OF RWY 7/24
6. DP ROUTE DESCRIPTION CHANGED KDET FROM "TAKE-OFF RWY 33.." TO "TAKEOFF RWY 33..." FOR RWY 33 - UPDATED VERBIAGE IAW 8260.46J APPENDIX D SECTION 2 AND PENDING DECOMMISSIONING OF RWY 7/24
7. DP ROUTE DESCRIPTION KDET ADDED COMMON INSTRUCTION "...MAINTAIN ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO INTERCEPT FILED/ASSIGNED TRANSITION OR ENROUTE FIX/NAVAID. WHEN ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE." - IAW 8260.46J SECTION 2 PARA 2C
8. DP ROUTE DESCRIPTION CHANGED KARB FROM "TAKE-OFF RUNWAYS 6/24: CLIMB ON ASSIGNED HEADING, THENCE..." TO "**TAKEOFF RWY 6, 24:** CLIMB ON ASSIGNED HEADING. MAINTAIN ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO INTERCEPT FILED/ASSIGNED TRANSITION OR ENROUTE FIX/NAVAID. WHEN ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL WITHIN TEN (10) MINUTES AFTER DEPARTURE." - UPDATED VERBIAGE AND REMOVAL OF THENCE IAW 8260.46J APPENDIX D SECTION 2 PARA 2C
9. DP ROUTE DESCRIPTION CHANGED KPTK FROM "TAKE-OFF RUNWAYS 9L/R AND 27L/R: CLIMB ON ASSIGNED HEADING, THENCE..." TO "**TAKEOFF RWY 9L, 9R, 27L, 27R:** CLIMB ON ASSIGNED HEADING. MAINTAIN ATC ASSIGNED ALTITUDE FOR RADAR VECTORS TO INTERCEPT FILED/ASSIGNED TRANSITION OR ENROUTE FIX/NAVAID. WHEN ATC ASSIGNED ALTITUDE IS AT OR ABOVE 5000, CROSS DXO 10 DME ARC AT OR ABOVE 5000 FOR NOISE ABATEMENT. IF UNABLE TO COMPLY, ADVISE ATC PRIOR TO DEPARTURE. EXPECT CLEARANCE TO FILED ALTITUDE/FLIGHT LEVEL

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WITHIN TEN (10) MINUTES AFTER DEPARTURE." - UPDATED VERBIAGE AND REMOVAL OF THENCE IAW 8260.46J APPENDIX D SECTION 2 PARA 2C

10. DP ROUTE DESCRIPTION ADDED KDTW "ALL AIRCRAFT: ATC CLIMB GRADIENT: IF UNABLE TO ACCEPT CLIMB RATE, ADVISE ATC PRIOR TO TAXI. RWY 3R: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 820 FT/NM TO 2500. RWY 3L: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 737 FT/NM TO 2500. RWY 4R: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 856 FT/NM TO 2500. RWY 4L: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 669 FT/NM TO 2500. RWY 9R: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 1046 FT/NM TO 2500. RWY 9L: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 988 FT/NM TO 2500. RWY 21R: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 538 FT/NM TO 2500. RWY 21L: 687 FT/NM TO 2500. RWY 22R: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 742 FT/NM TO 2500. RWY 22L: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 661 FT/NM TO 2500. RWY 27R: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 511 FT/NM TO 2500. RWY 27L: CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL, 521 FT/NM TO 2500" - PER ATC REQUEST TO FACILITATE CHART NOTE AND TRAFFIC FLOW TO DECONFLICT KDTW DEPARTURES WITH KYIP TRAFFIC, DXO 3.5 RESTRICTION MOVED FROM SPECIAL INTSTRUCTION TO ATC CLIMB GRADIENT DP ROUTE DESCRIPTION PER AFS TO MATCH KMSP KBREW DEPARTURE

11. PROCEDURAL DATA NOTES: SPECIAL INSTRUCTIONS CHANGED FROM "WHEN USING THIS DEPARTURE, FILE THE APPROPRIATE DEPICTED DEPARTURE FIX AND ROUTE. AIRCRAFT OVER HARWL MUST FILE FL220 AND BELOW. PROP AIRCRAFT DEPARTING KDTW RWY 21L/R AND 22L/R WESTBOUND, CROSS DXO 3.5 DME AT OR ABOVE 2500 MSL. AIRCRAFT LANDING CLEVELAND (CLE) MUST FILE MAARS TRANSITION. TURBOJET DEPARTURES AT/ABOVE 10000, MAINTAIN 280K UNTIL ADVISED BY ATC. IF UNABLE, ADVISE ATC PRIOR TO DEPARTURE" TO "SPECIAL INSTRUCTIONS: FOR APPROPRIATE DEPARTURE CONTROL FREQUENCY, SEE GRAPHIC. USE FREQUENCY DEPICTED WITHIN THE SECTOR WHERE FIRST NAVAID/FIX FOR YOUR ROUTE IS LOCATED (SECTORS INDICATED BY DASHED LINES; FREQUENCIES IN DASHED BOX WITHIN)." - PER AFS, SPECIAL INSTRUCTIONS CAN ONLY BE USED TO DEPICT FREQUENCIES AND ATC SECTORS ON FLIGHT INFORMATION GRAPHIC.

15. PROCEDURAL DATA NOTES: ADDED NOTE "WHEN USING THIS DEPARTURE, FILE THE APPROPRIATE DEPICTED DEPARTURE FIX AND ROUTE. AIRCRAFT OVER HARWL MUST FILE FL220 AND BELOW. AIRCRAFT LANDING CLEVELAND (CLE) MUST FILE MAARS TRANSITION. TURBOJET DEPARTURES AT/ABOVE 10000, MAINTAIN 280K UNTIL ADVISED BY ATC. IF UNABLE, ADVISE ATC PRIOR TO DEPARTURE" - PER ATC REQUEST FOR TRAFFIC FLOW AND TO DECONFLICT KDTW AIRCRAFT WITH KYIP AIRCRAFT

12. TAKEOFF MINIMUMS REMOVED WINDSOR (CYQG) - AIRPORT NO LONGER SERVED BY PROCEDURE

13. TAKEOFF MINIMUMS REMOVED KYIP RWY 5L/23R AND CHANGE 5R/23L TO RWY 5/23 - PARALLEL RWYS NO LONGER IN USE.

14. TAKEOFF MINIMUMS REMOVED KDET RWY 7 & 25 - RWYS NO LONGER IN USE

15. MSA SECTION ADDED MSA FOR KDTW, KYIP, KARB, KDET AND KPTK - REQUIRED PER 8260.46J APPENDIX D SECTION 2

16. CONTROLLING OBSTACLE KYIP RWY 27 LAT/LONG CHANGED FROM 421431.78N/0833411.47W TO 421431.80N/0833411.49W - NEW SURVEY.

17. CONTROLLING OBSTACLE KDET RWY 25 REMOVED - KDET RWY 25 NO LONGER IN USE.

18. LOST COMMUNICATIONS PROCEDURES CYQG REMOVED - CYQG NO LONGER USED ON PROCEDURE.

19. ADDITIONAL FLIGHT DATA REMOVED CYQG TOP ALTITUDE - CYQG NO LONGER USED ON PROCEDURE.

20. TRANSITION ROUTES ADDED MEAS AND MOCAS FOR DUNKS, HARWL, ILLIE, MAARS AND PISTN TRANSITIONS - MEA/MOCA REQUIRED PER 8260.46J APPENDIX D SECTION 2 AND CLARIFICATION OF DP MOCA DOCUMENTATION MEMO

