

**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SUPERSEDED NUMBER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>EFFECTIVE DATE</u>
CAVVS	TWO	CAVVS2.CAVVS	ONE	07/19/2018	28 FEB 2019

<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 checked="" type="checkbox"/>

This is a corrected copy of the procedure published in NFDD 234. See page 4.

**DP ROUTE DESCRIPTION:
CLEVELAND-HOPKINS INTL:**

TAKEOFF RWY 6L: CLIMB ON HEADING 057.94 TO INTERCEPT COURSE 101.51 TO NANTZ, THEN ON TRACK 143.03 TO CROSS CAHRR AT OR BELOW 6000, THEN ON TRACK 232.01 TO CROSS BIGZ AT OR ABOVE 10000, THEN ON TRACK 231.36 TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 6R: CLIMB ON HEADING 057.94 TO INTERCEPT COURSE 101.27 TO NANTZ, THEN ON TRACK 143.03 TO CROSS CAHRR AT OR BELOW 6000, THEN ON TRACK 232.01 TO CROSS BIGZ AT OR ABOVE 10000, THEN ON TRACK 231.36 TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 10: CLIMB ON HEADING 101.31 TO 3000, THEN AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 24L: CLIMB ON HEADING 237.96 TO INTERCEPT COURSE 205.96 TO CROSS KYRIE AT OR BELOW 6000, THEN ON TRACK 209.89 TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 24R: CLIMB ON HEADING 237.95 TO INTERCEPT COURSE 205.02 TO CROSS KYRIE AT OR BELOW 6000, THEN ON TRACK 209.89 TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 28: CLIMB ON HEADING 281.32 TO 2200, THEN AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

BURKE LAKEFRONT:

TAKEOFF RWY 6L: CLIMB ON HEADING 065.91 TO 1100, THEN ON HEADING 350.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 6R: CLIMB ON HEADING 065.92 TO 1100, THEN ON HEADING 350.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 24L: CLIMB ON HEADING 245.93 TO 1100, THEN RIGHT TURN HEADING 350.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 24R: CLIMB ON HEADING 245.92 TO 1100, THEN RIGHT TURN HEADING 350.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

CUYAHOGA COUNTY:

TAKEOFF RWY 6: CLIMB ON HEADING 057.48 TO 1900, THEN RIGHT TURN HEADING 180.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 24: CLIMB ON HEADING 237.49 TO 1900, THEN ON HEADING 180.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

LORAIN COUNTY RGNL:

TAKEOFF RWY 7: CLIMB ON HEADING 073.01 TO 1300, THEN ON HEADING 360.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 25: CLIMB ON HEADING 253.02 TO 1300, THEN RIGHT TURN HEADING 360.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

WILLOUGHBY LOST NATION MUNI:

TAKEOFF RWY 5: CLIMB ON HEADING 052.59 TO 1140, THEN RIGHT TURN HEADING 180.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 10: CLIMB ON HEADING 098.51 TO 1140, THEN ON HEADING 180.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 23: CLIMB ON HEADING 232.60 TO 1140, THEN ON HEADING 180.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

TAKEOFF RWY 28: CLIMB ON HEADING 278.52 TO 1140, THEN LEFT TURN HEADING 180.00 OR AS ASSIGNED BY ATC FOR RADAR VECTORS TO CROSS LBRON AT OR ABOVE 10000, THENCE...

...ON TRACK 213.13 TO CAVVS, THEN ON (TRANSITION). MAINTAIN 14000, EXPECT FILED ALTITUDE TEN 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>
APPLETON	CAVVS2.APE	CAVVS	APE VORTAC	TRACK 213.03	31.50	14000	2800	

PROCEDURAL DATA NOTES:

RADAR REQUIRED

RNAV 1

DME/DME/IRU OR GPS REQUIRED



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TAKEOFF MINIMUMS:

CLEVELAND-HOPKINS INTL: RWY 6L, 24R, 24L, 28 STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1300. **RWY 6R**, STANDARD WITH A MINIMUM CLIMB OF 500 TO 1400. **RWY 10**, STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1600.

BURKE LAKEFRONT: RWY 6R, 6L, 24R STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1100. **RWY 24L** 400-1 3/8 OR STANDARD WITH MINIMUM CLIMB OF 757 FT PER NM TO 1000.

CUYAHOGA COUNTY: RWY 6, 24 STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1400.

LORAIN COUNTY RGNL: RWY 7, 25 STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1300.

WILLOUGHBY LOST NATION MUNI: RWY 5, 10, 23, 28 STANDARD WITH A MINIMUM CLIMB OF 500 FT PER NM TO 1140.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:

CLEVELAND-HOPKINS INTL: RWY 6R: 1998 FT MSL TOWER 412245.00N/0814311.00W RWY 10: 2048 FT MSL TOWER 412254.00N/0814157.00W

BURKE LAKEFRONT: RWY 24L: 740 FT MSL BUILDING 413031.10N/0814144.07W (CLIMB GRADIENT), 896 FT MSL BUILDING 413004.41N/0814214.10W (CEILING/CLIMB-TO ALTITUDE), 787 FT MSL BRIDGE 412953.73N/0814231.66W (VISIBILITY).

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

REFERENCE MAG VAR: KCLE 8W EPOCH YEAR: 2020

CHART: TOP ALTITUDE: 14000

DME/DME/IRU ASSESSMENT: SAT (RNP 2.0)

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
CLEVELAND-HOPKINS INTL (KCLE)	CLEVELAND	OH
BURKE LAKEFRONT (KBKL)	CLEVELAND	OH
CUYAHOGA COUNTY (KCGF)	CLEVELAND	OH
LORAIN COUNRY RGNL (KLPR)	LORAIN/ELYRIA	OH
WILLOUGHBY LOST NATION MUNI (KLNN)	WILLOUGHBY	OH

COMMUNICATIONS:

CLEVELAND-HOPKINS INTL: ATIS, CLNC DEL, CPDLC, GND CON, CLE ATCT, CLE APP CON, CLE DEP CON.

BURKE LAKEFRONT: ATIS, AWOS/ASOS, CLNC DEL, GND CON, BKL ATCT, CTAF DEPARTURE CONTROL.

CUYAHOGA COUNTY: ATIS, AWOS/ASOS, CLNC DEL, GND CON, CGF ATCT, CTAF DEPARTURE CONTROL.

LORAIN COUNTY RGNL: ATIS, AWOS/ASOS, CLNC DEL, CTAF DEPARTURE CONTROL.

WILLOUGHBY LOST NATION MUNI: ATIS, AWOS/ASOS, CTAF DEPARTURE CONTROL.

FIXES AND/OR NAVAIDS:

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REMARKS:

THE ENVIRONMENTAL REVIEW UNDER ORDER 1050.1F AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.
CATEGORICAL EXCLUSION ISSUED.
MOCA(S) NOT CHARTED PER ATC REQUEST TO REDUCE CHART CLUTTER.
LETTER OF APPROVAL ON FILE FOR KBKL RWY 24L MINIMUM CLIMB OF 757 FT PER NM TO 1000.
ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY:

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

OFFICE SYMBOL:**DATE:****DEVELOPED BY:**

HEIDI SNIDER

OFFICE SYMBOL:**DATE:**

AJV-5423

08/21/2018

APPROVED BY:

JULIE MORGAN

OFFICE SYMBOL:**DATE:**

AJV-5420

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:

ZOB, CLE APP CON, CLE ATCT, CGF ATCT, BKL ATCT, CFPT, AMGR

CHANGES - REASONS:

1. CHANGED 8260.15C, PAGE 4 FOR KCLE RW10 FROM 1300 MSL TO 3000 MSL - ALTITUDE FOR RADAR VECTORING.
2. CHANGED 8260.15C, PAGE 5 FOR KCLE RW28 FROM 1300 MSL TO 2200 MSL - ALTITUDE FOR RADAR VECTORING.
3. UPDATED COMMUNICATIONS, ADDED CLNC DEL AND GRD CON AT BURKE LAKEFRONT AND CUYAHOGA COUNTY ADDED CLNC DEL, REMOVED LPR ATCT AT LORAIN COUNTY, REMOVED LNN ATCT AT WILLOUGHBY LOST NATION MUNI. - REQUIRED FREQUENCIES TO BE PUBLISHED.
4. UPDATED DP ROUTE DESCRIPTION AT CUYAHOGA COUNTY RAISED INITIAL CLIMB ALTITUDE FROM 1400 TO 1900 - ATC REQUEST.

10/26/2018: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/23/2018.

1. UPDATED DEPARTURE ROUTE DESCRIPTION FROM ...ON TRACK 213.13 TO CAVVS, THEN ON (TRANSITION). MAINTAIN 14000, EXPECT FILED ALTITUDE TEN MINUTES AFTER DEPARTURE. TO ... ON TRACK 213.13 TO CAVVS, THEN ON (TRANSITION). MAINTAIN 14000 OR LOWER FILED ALTITUDE, EXPECT HIGHER FILED ALTITUDE TEN MINUTES AFTER DEPARTURE. - ATC REQUEST.

12/11/2018: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 11/02/2018.

1. UPDATED DEPARTURE ROUTE DESCRIPTION FROM ...ON TRACK 213.13 TO CAVVS, THEN ON (TRANSITION). MAINTAIN 14000 OR LOWER FILED ALTITUDE, EXPECT HIGHER FILED ALTITUDE TEN MINUTES AFTER DEPARTURE. TO ...ON TRACK 213.13 TO CAVVS, THEN ON (TRANSITION). MAINTAIN 14000, EXPECT FILED ALTITUDE TEN MINUTES AFTER DEPARTURE. - ATC REQUEST.

QUALITY
35
CHECKED

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)**

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		EFFECTIVE DATE	
CAVVS		TWO		CAVVS2.CAVVS		ONE		07/19/2018		28 FEB 2019	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
	CLEVELAND-HOPKINS INTL					(KCLE)					
RW06L (AER)	412359.53N/0815224.55W	N	-	-	-	-					
-	412536.89N/0814950.69W	-	-	VI	049.94	1.04			CG 500 FT/NM TO 1300		
NANTZ	412521.14N/0814406.56W	Y	FB	CF	093.51	4.32			RECOMMEND NAVAID: EWC VOR/DME		
CAHRR	412008.43N/0813712.43W	Y	FB	TF	135.03	7.36	AT/BELOW 6000				
BIIGZ	411157.81N/0814739.45W	Y	FB	TF	224.01	11.35	AT/ABOVE 10000				
LBRON	405724.62N/0820545.34W	Y	FB	TF	223.36	19.97	AT/ABOVE 10000				
RW06R (AER)*	412404.10N/0815152.03W*	N	-	-	-	-			*DISPL THLD (1926 FEET)		
-	412535.74N/0814927.17W	-	-	VI	049.94	1.05			CG 500 FT/NM TO 1400		
NANTZ	412521.14N/0814406.56W	Y	FB	CF	093.27	4.04			RECOMMEND NAVAID: EWC VOR/DME		
CAHRR	412008.43N/0813712.43W	Y	FB	TF	135.03	7.36	AT/BELOW 6000				
BIIGZ	411157.81N/0814739.45W	Y	FB	TF	224.01	11.35	AT/ABOVE 10000				
LBRON	405724.62N/0820545.34W	Y	FB	TF	223.36	19.97	AT/ABOVE 10000				
RW10 (AER)	412501.26N/0815115.28W	N	-	-	-	-					
3000 MSL	-	-	-	VA	093.31	-			CG 500 FT/NM TO 1600		
-	-	-	-	VM	093.31	-					
RW24L (AER)	412455.14N/0815031.37W	N	-	-	-	-					
-	412311.33N/0815315.36W	-	-	VI	229.96	1.06			CG 500 FT/NM TO 1300; RECOMMEND NAVAID: EWC VOR/DME		
KYRIE	411130.78N/0815816.93W	Y	FB	CF	197.96	12.27	AT/BELOW 6000				

QUALITY 3

QUALITY
3
CHECKED

**FEDERAL AVIATION ADMINISTRATION
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DEPARTURE (DATA RECORD)**

DP NAME		NUMBER		DP COMPUTER CODE		SUPERSEDED NUMBER		DATED		EFFECTIVE DATE	
CAVVS		TWO		CAVVS2.CAVVS		ONE		07/19/2018		28 FEB 2019	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
LBRON	405724.62N/0820545.34W	Y	FB	TF	201.89	15.19	AT/ABOVE 10000				
RW24R (AER)	412456.75N/0815054.15W	N	-	-	-	-					
-	412318.61N/0815329.17W	-	-	VI	229.95	1.05	CG 500 FT/NM TO 1300; RECOMMENDED NAVAID: EWC VOR/DME				
KYRIE	411130.78N/0815816.93W	Y	FB	CF	197.02	12.33	AT/BELOW 6000				
LBRON	405724.62N/0820545.34W	Y	FB	TF	201.89	15.19	AT/ABOVE 10000				
RW28 (AER)	412457.82N/0814956.44W	N	-	-	-	-					
2200 MSL	-	-	-	VA	273.32	-	CG 500 FT/NM TO 1300				
-	-	-	-	VM	273.32	-					
BURKE LAKEFRONT					(KBKL)						
RW06L (AER)*	413051.82N/0814129.42W*	N	-	-	-	-	*DISPL THLD (178 FEET)				
1100 MSL	-	-	-	VA	057.91	-	CG 500 FT/NM TO 1100				
-	-	-	-	VM	342.00	-					
RW06R (AER)*	413047.12N/0814127.01W*	N	-	-	-	-	*DISPL THLD (275 FEET)				
1100 MSL	-	-	-	VA	057.92	-	CG 500 FT/NM TO 1100				
-	-	-	-	VM	342.00	-					
RW24L (AER)	413112.95N/0814032.20W	N	-	-	-	-					
1100 MSL	-	-	-	VA	237.93	-	CG 757 FT/NM TO 1000				

QUALITY

3

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3
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CAVVS		TWO		CAVVS2.CAVVS		ONE		07/19/2018		28 FEB 2019	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS		
-	-	-	-	VM	342.00	-			RIGHT TURN		
RW24R (AER)*	413122.39N/0814024.54W*	N	-	-	-	-			DISPL THLD (600 FEET)		
1100 MSL	-	-	-	VA	237.92	-			CG 500 FT/NM TO 1100		
-	-	-	-	VM	342.00	-					
CUYAHOGA COUNTY					(KCGF)						
RW06 (AER)	413336.83N/0812938.32W*	N	-	-	-	-			DISPL THLD (318 FEET)		
1900 MSL	-	-	-	VA	049.48	-			CG 500 FT/NM TO 1400		
-	-	-	-	VM	172.00				RIGHT TURN		
RW24 (AER)	413406.89N/0812851.49W*	N	-	-	-	-			DISPL THLD (500 FEET)		
1900 MSL	-	-	-	VA	229.49	-			CG 500 FT/NM TO 1400		
-	-	-	-	VM	172.00						
LORAIN COUNTY RGNL					(KLPR)						
RW07 (AER)	412028.96N/0821109.17W	N	-	-	-	-					
1300 MSL	-	-	-	VA	065.01	-			CG 500 FT/NM TO 1300		
-	-	-	-	VM	352.00						
RW25 (AER)	412049.83N/0821009.74W	N	-	-	-	-					
1300 MSL	-	-	-	VA	245.02	-			CG 500 FT/NM TO 1300		

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3

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<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
-	-	-	-	VM	352.00				RIGHT TURN
WILLOUGHBY LOST NATION MUNI (KLNN)									
RW05 (AER)*	414052.54N/0812346.84W*	N	-	-	-	-			*DISPL THLD (428 FEET)
1140 MSL	-	-	-	VA	044.59	-			CG 500 FT/NM TO 1140
-	-	-	-	VM	172.00				RIGHT TURN
RW10 (AER)									
RW10 (AER)	414057.07N/0812346.05W	N	-	-	-	-			
1140 MSL	-	-	-	VA	090.51	-			CG 500 FT/NM TO 1140
-	-	-	-	VM	172.00	-			
RW23 (AER)									
RW23 (AER)	414124.90N/0812304.28W	N	-	-	-	-			
1140 MSL	-	-	-	VA	224.60	-			CG 500 FT/NM TO 1140
-	-	-	-	VM	172.00				
RW28 (AER)*									
RW28 (AER)*	414056.79N/0812304.56W*	N	-	-	-	-			*DISPL THLD (1124 FEET)
1140 MSL	-	-	-	VA	270.52	-			CG 500 FT/NM TO 1140
-	-	-	-	VM	172.00	-			LEFT TURN
LBRON									
LBRON	405724.62N/0820545.34W	Y	-	IF	-	-	AT/ABOVE 10000		
CAVVS	403738.64N/0821755.19W	Y	FB	TF	205.13	21.81			

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<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
CAVVS	403738.64N/0821755.19W	Y	-	IF	-	-			CAVVS2.APE
APE VORTAC	400903.83N/0823517.88W	Y	FB	TF	205.03	31.50			

