

**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SUPERSEDED NUMBER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>
COASTAL	NINE	CSTL9.CCC	EIGHT	11/05/2020	<i>12 AUG 2021</i>
<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"/>	<input type="checkbox"/>

DP ROUTE DESCRIPTION:**BRADLEY INTL:****TAKEOFF RWY 6:** CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO HFD VOR/DME, THENCE...**TAKEOFF RWY 15:** CLIMB ON HEADING 148.37 OR AS ASSIGNED FOR RADAR VECTORS TO HFD VOR/DME, THENCE...**TAKEOFF RWY 24:** CLIMB ON HEADING 238.39 OR AS ASSIGNED FOR RADAR VECTORS TO HFD VOR/DME, THENCE...**TAKEOFF RWY 33:** CLIMB ON HEADING 328.38 OR AS ASSIGNED FOR RADAR VECTORS TO HFD VOR/DME, THENCE...

... FROM OVER HFD VOR/DME PROCEED ON HFD VOR/DME R-143 TO THUMB INT, THEN ON HTO VOR/DME R-010 TO YODER INT, THEN ON CCC VOR/DME R-057 TO CCC VOR/DME, THEN ON ASSIGNED ROUTE. MAINTAIN 4000 OR ASSIGNED ALTITUDE. EXPECT CLEARANCE TO REQUESTED FLIGHT LEVEL 10 MINUTES AFTER DEPARTURE.

HARTFORD-BRAINARD:**TAKEOFF RWY 2:** CLIMB ON HEADING 023.95 TO 900, THEN AS ASSIGNED FOR RADAR VECTORS TO HFD VOR/DME, THENCE...**TAKEOFF RWY 20:** CLIMBING LEFT TURN HEADING 175.00 TO 1300, THEN AS ASSIGNED FOR RADAR VECTORS TO HFD VOR/DME, THENCE...**WESTFIELD-BARNES RGNL:****TAKEOFF RWY 2:** CLIMB ON HEADING 024.01 TO 1700, THEN AS ASSIGNED FOR RADAR VECTORS TO HFD VOR/DME, THENCE...**TAKEOFF RWY 15:** CLIMB ON HEADING 154.20 TO 1300, THEN AS ASSIGNED FOR RADAR VECTORS TO HFD VOR/DME, THENCE...**TAKEOFF RWY 20:** CLIMB ON HEADING 204.22 TO 1400, THEN AS ASSIGNED FOR RADAR VECTORS TO HFD VOR/DME, THENCE...**TAKEOFF RWY 33:** CLIMB ON HEADING 334.21 TO 1500, THEN AS ASSIGNED FOR RADAR VECTORS TO HFD VOR/DME, THENCE...

... FROM OVER HFD VOR/DME PROCEED ON HFD VOR/DME R-143 TO THUMB INT, THEN ON HTO VOR/DME R-010 TO YODER INT, THEN ON CCC VOR/DME R-057 TO CCC VOR/DME, THEN ON ASSIGNED ROUTE. MAINTAIN 3000 OR ASSIGNED ALTITUDE. EXPECT CLEARANCE TO REQUESTED FLIGHT LEVEL 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>
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PROCEDURAL DATA NOTES:**NOTE:** RADAR REQUIRED.**NOTE:** INITIAL DEPARTURE HEADINGS ARE PREDICATED ON AVOIDING NOISE SENSITIVE AREAS, FLIGHT CREW AWARENESS AND COMPLIANCE IS IMPORTANT IN MINIMIZING NOISE IMPACTS ON SURROUNDING COMMUNITIES.**TAKEOFF MINIMUMS:****BRADLEY INTL:****RWY 6, 15, 24:** STANDARD.**RWY 33:** STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 1000.**HARTFORD-BRAINARD:****RWY 11, 29, NA** - ENVIRONMENTAL.**RWY 2,** STANDARD.**RWY 20,** 200-1 3/8 OR STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1500 FT PRIOR TO DER.

QUALITY
22
CHECKED

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WESTFIELD-BARNES RGNL:

RWY 20, STANDARD.

RWY 2, 200-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 210 FT PER NM TO 600, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.

RWY 15, 400-1 7/8 OR STANDARD WITH MINIMUM CLIMB OF 460 FT PER NM TO 800.

RWY 33, STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 1800.

TAKEOFF OBSTACLES NOTES:

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

CONTROLLING OBSTACLES:**BRADLEY INTL:**

RWY 33: 747 FT MSL ANTENNA 415736.64N/0724422.38W (CLIMB GRADIENT). 774 FT MSL TOWER 415748.32N/0724426.23W (CLIMB-TO ALTITUDE).

HARTFORD-BRAINARD:

RWY 2: 2032 FT MSL TOWER 414213.27N/0724954.38W (OBSTACLE MANDATING ROUTE DEVELOPMENT).

RWY 20: 195 FT MSL SPIRE 414246.60N/0723907.70W (CLIMB GRADIENT, CLIMB-TO ALTITUDE, CEILING, VISIBILITY). 2032 FT MSL TOWER 414213.27N/0724954.38W (OBSTACLE MANDATING ROUTE DEVELOPMENT).

WESTFIELD-BARNES RGNL:

RWY 2: 465 FT MSL TREE 421124.54N/0724216.76W (CLIMB GRADIENT, CLIMB-TO ALTITUDE, CEILING, VISIBILITY). 1396 FT MSL TOWER 421430.52N/0723853.82W (OBSTACLE MANDATING ROUTE DEVELOPMENT).

RWY 15: 592 FT MSL TREE 420839.66N/0724122.09W (CLIMB GRADIENT, CLIMB-TO ALTITUDE, CEILING). 505 FT MSL TREE 420753.32N/0724124.67W (VISIBILITY). 1170 FT MSL TOWER 420504.82N/0724213.29W (OBSTACLE MANDATING ROUTE DEVELOPMENT).

RWY 20: 1170 FT MSL TOWER 420504.82N/0724213.29W (OBSTACLE MANDATING ROUTE DEVELOPMENT).

RWY 33: 1079 FT MSL AAO 421148.20N/0724655.20W (CLIMB GRADIENT). 1539 FT MSL AAO 421334.00N/0724832.30W (CLIMB-TO ALTITUDE). 1339 FT MSL AAO 421118.60N/0724743.90W (OBSTACLE MANDATING ROUTE DEVELOPMENT).

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

BRADLEY INTL: CHART: TOP ALTITUDE: 4000.

HARTFORD-BRAINARD AND WESTFIELD-BARNES: CHART: TOP ALTITUDE: 3000.

REFERENCE MAGVAR: KBDL 14W EPOCH YR: 1980.

AIRPORTS SERVED:

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
BRADLEY INTL	KBDL	WINDSOR LOCKS	CT
HARTFORD-BRAINARD	KHFD	HARTFORD	CT
WESTFIELD-BARNES RGNL	KBAF	WESTFIELD/SPRINGFIELD	MA

COMMUNICATIONS:

BRADLEY INTL: ATIS, CLNC DEL, GND, CPDLC, TOWER, DEP CON (123.95, 290.55)

HARTFORD-BRAINARD: ATIS, GND, TOWER, DEP CON

WESTFIELD-BARNES RGNL: ATIS, GND, TOWER, DEP CON

FIXES AND/OR NAVAIDS:**REMARKS:**

1. KBDL RWY 33 CLIMB GRADIENT ROUNDED TO 340 FT PER NM FOR PUBLICATION (COMPUTED VALUE 335.94 FT PER NM).

2. KHFD RWY 20 CLIMB GRADIENT ROUNDED TO 220 FT PER NM FOR PUBLICATION (COMPUTED VALUE 215.59 FT PER NM).



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3. KBAF RWY 2 CLIMB GRADIENT ROUNDED TO 210 FT PER NM FOR PUBLICATION (COMPUTED VALUE 204.46 FT PER NM).
 4. KBAF RWY 15 CLIMB GRADIENT ROUNDED TO 460 FT PER NM FOR PUBLICATION (COMPUTED VALUE 449.82 FT PER NM).
 5. KBAF RWY 33 CLIMB GRADIENT ROUNDED TO 340 FT PER NM FOR PUBLICATION (COMPUTED VALUE 333.95 FT PER NM).
 6. ABBREVIATED AMENDMENT.

FLIGHT INSPECTED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020 SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED.

OFFICE**DATE**

Digitally signed by

JOHN BORDY

Mar 23, 2021

DEVELOPED BY

RALPH DUMAR

Digitally signed by

RALPH DUMAR

Feb 23, 2021

OFFICE**DATE**

AJV-A422

02/23/2021

APPROVED BY

MARLON ROBINSON

Digitally signed by

JOHN BORDY

Mar 23, 2021

OFFICE**DATE**

AJV-A420

TITLE

MANAGER

REQUIRED EFFECTIVE DATE

ROUTINE

COORDINATED WITH:

A4A ☒

ALPA ☒

AOPA ☒

APA ☒

HAI ☐

NBAA ☒

OTHER: ZBW, BDL APP CON, BDL ATCT, HFD ATCT, BAF ATCT, AMGR(S).

CHANGES - REASONS:

1. REMOVED 'RWY 1: CLIMB HEADING 013.04 TO 900 THEN AS ASSIGNED FOR RADAR VECTORS TO HFD VOR/DME, THENCE...' FROM DP ROUTE DESCRIPTION - RWY 1/19 DECOMMISSIONED.
 2. TAKEOFF MINIMUMS: REMOVED 'RWY 19, NA - ENVIRONMENTAL' AND RWY 1 FROM 'RWY 1, 6, 15, 24: STANDARD' - RWY 1/19 DECOMMISSIONED.
 3. REMOVED 'RWY 1: 909 FT MSL AAO 415941.80N/0724401.60W' FROM CONTROLLING OBSTACLES - RWY 1/19 DECOMMISSIONED.
 4. REMOVED REMARK 'KBDL: TAKEOFF RWY 19 NA PER AIRPORT MANAGEMENT REQUEST (SEE REMARKS IN AIRPORT CHART SUPPLEMENT ENTRY)' AND RENUMBERED REMAINING REMARKS - RWY 1/19 DECOMMISSIONED.

