

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)  
TITLE 14 CFR PART 97.37**

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>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>	<u>AMDT NO</u>	<u>ACTUAL EFFECTIVE DATE</u>
KHVN	NEW HAVEN	CT	7	8 SEPTEMBER 2022

**TAKEOFF MINIMUMS:**

RWY 14, 32: NA - ENVIRONMENTAL.

RWY 20: STANDARD.

RWY 2: 300-1 1/8 WITH MINIMUM CLIMB OF 240 FT PER NM TO 860, OR STANDARD WITH MINIMUM CLIMB OF 1183 FT PER NM TO 380 OR 1000-3 FOR VCOA.

**TEXTUAL DEPARTURE PROCEDURES:**

**VISUAL CLIMB OVER AIRPORT:**

RWY 2: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TWEED/NEW HAVEN AIRPORT AT OR ABOVE 1000 BEFORE PROCEEDING ON COURSE.

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 2,** FENCE 22 FT FROM DER, 497 FT LEFT OF CENTERLINE, 14 FT MSL. FENCE 41 FT FROM DER, 449 FT RIGHT OF CENTERLINE, 22 FT MSL. TREE 63 FT FROM DER, 369 FT LEFT OF CENTERLINE, 16 FT MSL. TOWER AND VEHICLES ON ROAD BEGINNING 124 FT FROM DER, 306 FT RIGHT OF CENTERLINE, UP TO 53 FT AGL/64 FT MSL. TREE AND VEHICLES ON ROAD BEGINNING 397 FT FROM DER, 284 FT RIGHT OF CENTERLINE, UP TO 70 FT MSL. TREE AND POLE BEGINNING 426 FT FROM DER, 563 FT LEFT OF CENTERLINE, UP TO 71 FT MSL. TREES BEGINNING 546 FT FROM DER, 457 FT RIGHT OF CENTERLINE, UP TO 88 FT MSL. TREE 634 FT FROM DER, 553 FT RIGHT OF CENTERLINE, 75 FT AGL/89 FT MSL. TREE, POLE, BUILDING, AND TRANSMISSION LINE BEGINNING 647 FT FROM DER, 489 FT LEFT OF CENTERLINE, UP TO 83 FT MSL. TREE, BUILDING, AND POLE BEGINNING 679 FT FROM DER, ON CENTERLINE, UP TO 95 FT MSL. TREE 857 FT FROM DER, 593 FT LEFT OF CENTERLINE, 105 FT MSL. TREE, ANTENNA, TRANSMISSION LINE, ELECTRICAL SYSTEM, POLE, AND VEHICLES ON ROAD BEGINNING 900 FT FROM DER, 82 FT LEFT OF CENTERLINE, UP TO 155 FT MSL. TREE, VEGETATION, AND BUILDING BEGINNING 1131 FT FROM DER, 103 FT LEFT OF CENTERLINE, UP TO 159 FT MSL. BUILDING 1166 FT FROM DER, 796 FT LEFT OF CENTERLINE, 30 FT AGL/178 FT MSL. TREE, POLE, VEHICLES ON ROAD, AND ELECTRICAL SYSTEM BEGINNING 1170 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 180 FT MSL. TREE, POLE, ELECTRICAL SYSTEM, AND BUILDING BEGINNING 1224 FT FROM DER, 28 FT LEFT OF CENTERLINE, UP TO 186 FT MSL. TREE, BUILDING, AND POLE BEGINNING 1289 FT FROM DER, 107 FT LEFT OF CENTERLINE, UP TO 194 FT MSL. TREE, BUILDING, AND POLE BEGINNING 1342 FT FROM DER, 49 FT LEFT OF CENTERLINE, UP TO 211 FT MSL. TREE, BUILDING, AND POLE BEGINNING 1463 FT FROM DER, 17 FT LEFT OF CENTERLINE, UP TO 213 FT MSL. TREE, POLE, STACK, BUILDING, TRAVERSE WAY, TANK, AND ANTENNA BEGINNING 1639 FT FROM DER, 1 FT LEFT OF CENTERLINE, UP TO 101 FT AGL/241 FT MSL. TREE AND POLE BEGINNING 1905 FT FROM DER, ON CENTERLINE, UP TO 105 FT MSL. TREE AND BUILDING BEGINNING 2264 FT FROM DER, ON CENTERLINE, UP TO 112 FT MSL. TREE AND BUILDING BEGINNING 2617 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 117 FT MSL. TREES BEGINNING 2848 FT FROM DER, 24 FT RIGHT OF CENTERLINE, UP TO 63 FT AGL/118 FT MSL. TREES BEGINNING 2895 FT FROM DER, 25 FT RIGHT OF CENTERLINE, UP TO 63 FT AGL/121 FT MSL. TREE AND POLE BEGINNING 3081 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 71 FT AGL/125 FT MSL. TREE AND POLE BEGINNING 3347 FT FROM DER, 43 FT RIGHT OF CENTERLINE, UP TO 78 FT AGL/127 FT MSL. TREE AND POLE BEGINNING 3409 FT FROM DER, 20 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/135 FT MSL. TREE, BUILDING, AND POLE BEGINNING 3499 FT FROM DER, 16 FT LEFT OF CENTERLINE, UP TO 246 FT MSL. TREE, BUILDING, POLE, AND VEHICLES ON ROAD BEGINNING 3625 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 98 FT AGL/282 FT MSL. TREES BEGINNING 3695 FT FROM DER, 28 FT RIGHT OF CENTERLINE, UP TO 68 FT AGL/139 FT MSL. TREES BEGINNING 3885 FT FROM DER, 11 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/145 FT MSL. TREES BEGINNING 4849 FT FROM DER, 1267 FT LEFT OF CENTERLINE, UP TO 226 FT MSL.

**NOTE: RWY 20,** VEGETATION 18 FT FROM DER, 417 FT LEFT OF CENTERLINE, 8 FT MSL. TREE, POLE, BUILDING, AND VEHICLES ON ROAD BEGINNING 53 FT FROM DER, 478 FT RIGHT OF CENTERLINE, UP TO 44 FT MSL. VEGETATION 57 FT FROM DER, 284 FT LEFT OF CENTERLINE, 12 FT MSL. VEGETATION BEGINNING 121 FT FROM DER, 273 FT LEFT OF CENTERLINE, UP TO 18 FT MSL. TREE AND VEGETATION BEGINNING 298 FT FROM DER, 441 FT LEFT OF CENTERLINE, UP TO 28 FT MSL. TREE 583 FT FROM DER, 564 FT RIGHT OF CENTERLINE, 52 FT MSL. TREE, BUILDING, AND POLE BEGINNING 737 FT FROM DER, 560 FT RIGHT OF CENTERLINE, UP TO 59 FT MSL. TREE, POLE, TRANSMISSION LINE, AND BUILDING BEGINNING 944 FT FROM DER, 551 FT RIGHT OF CENTERLINE, UP TO 80 FT MSL. TREE 953 FT FROM DER, 542 FT LEFT OF CENTERLINE, 43 FT MSL. TREES BEGINNING 1226 FT FROM DER, 656 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/90 FT MSL. TREE, BUILDING, TRANSMISSION LINE BEGINNING 1250 FT FROM DER, 416 FT RIGHT OF CENTERLINE, UP TO 101 FT MSL. TREES BEGINNING 2097 FT FROM DER, 860 FT LEFT OF CENTERLINE, UP TO 67 FT MSL. TREES BEGINNING 2184 FT FROM DER, 703 FT LEFT OF CENTERLINE, UP TO 68 FT MSL. TREES BEGINNING 2225 FT FROM DER, 296 FT LEFT OF CENTERLINE, UP TO 77 FT MSL. TREES BEGINNING 2589 FT FROM DER, 170 FT LEFT OF CENTERLINE, UP TO 83 FT MSL. TREES BEGINNING 2607 FT FROM DER, 151 FT LEFT OF CENTERLINE, UP TO 95 FT MSL. TREES BEGINNING 2684 FT FROM DER, 120 FT RIGHT OF CENTERLINE, UP TO 96 FT AGL/108 FT MSL. TREES BEGINNING 2748 FT FROM DER, 133 FT LEFT OF CENTERLINE, UP TO 76 FT AGL/99 FT MSL.



**CONTROLLING OBSTACLES:**

RWY 2: 211 FT MSL TREE 411630.70N/0725323.97W (1183 CLIMB GRADIENT) / 404 FT MSL STACK 411702.12N/0755412.82 (240 CLIMB GRADIENT/380 CLIMB TO ALTITUDE) / 1549 FT MSL TOWER 412522.20N/0725704.90W (860 CLIMB TO ALTITUDE)  
282 FT MSL TREE 411653.54N/0725330.63W (CEILING)  
117 FT MSL TREE 411711.04N/0725332.75W (VISIBILITY)  
VISUAL CLIMB AREA OBSTACLE: 420 FT MSL BUILDING 411825.00N/0725527.00W  
OBSTACLE OUTSIDE VISUAL CLIMB AREA MANDATING VCOA CLIMB TO ALTITUDE: 1549 FT MSL TOWER 412522.20N/0725704.90W

**REMARKS:**

**FLIGHT INSPECTED BY**

*Digitally signed by*

**OFFICE**

**DATE**

STEPHEN BAUER

**ERIC N SUSKI**

FPO

06/10/2022

Jun 30, 2022

**DEVELOPED BY**

*Digitally signed by*

**OFFICE**

**DATE**

NICHOLAS K. JACKSON

**NICHOLAS JACKSON**

AJV-A431

03/23/2022

Jun 24, 2022

**APPROVED BY**

*Digitally signed by*

**OFFICE**

**DATE**

**TITLE**

LONNIE EVERHART

**ERIC N SUSKI**

AJV-A430

MANAGER

Jun 30, 2022

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZBW, NY TRACON, HVN ATCT, AMGR

**CHANGES - REASONS:**

1. RWY 14, 32 TAKEOFF MINIMUMS CHANGED TO NA - ENVIRONMENTAL. - UPDATED PER FPT CHECKLIST.
2. RUNWAY 2 TAKEOFF MINIMUMS UPDATED FROM "300-1 WITH MINIMUM CLIMB OF 340 FT PER NM TO 400" TO "300-1 5/8 WITH MINIMUM CLIMB OF 240 FT PER NM TO 860, OR STANDARD WITH MINIMUM CLIMB OF 1183 FT PER NM TO 380 OR 1000-3 FOR VCOA.". - NEW CONTROLLING OBSTRUCTION EVALUATED.
3. VCOA ADDED TO RWY 2 TAKEOFF MINIMUMS. - ADDED IAW 8260.46H PARA 2-1-1B(11).
4. ADDED UPDATED CG/CGTA/CEILING/VIS AND VCOA CONTROLLING OBSTRUCTIONS. - ADDED IAW 8260.19 APPENDIX D PARA 10.
5. ADDED ADDITIONAL TAKEOFF OBSTACLES NOTES. - NEW SURVEYED OBSTACLES EVALUATED.

06/24/2022: THIS IS AN UPDATED COPY OF THE FROM APPROVED ON 05/02/2022.

1. UPDATED RWY 2 (CG/CGTA) OBSTACLE 404 FT MSL STACK COORDINATES FROM "411702.12N/0755512.82W" TO "411702.12N/0755412.82W".
2. UPDATED VISUAL CLIMB AREA OBSTACLE 420 FT MSL BUILDING COORDINATES FROM "411825.00N/0725704.90W" TO "411825.00N/0725527.00W".
3. UPDATED RWY 2 VISIBILITY CONTROLLING OBSTRUCTION FROM "219 FT MSL TREE 411739.19N/0725328.37W" TO "117 FT MSL TREE 411711.04N/0725332.75W".
3. LOWERED RWY 2 VISIBILITY FROM 1 5/8 TO 1 1/8.

