

**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</u> | <u>AIRPORT ID</u> | <u>CITY</u> | <u>STATE</u> | <u>AMDT NO</u> | <u>ACTUAL EFFECTIVE DATE</u> |
|----------------|-------------------|-------------|--------------|----------------|------------------------------|
| SKY HARBOR     | KDYT              | DULUTH      | MN           | ORIG           | 29 DECEMBER 2022             |

**TAKEOFF MINIMUMS:**

13W, 31W, 9W, 27W: NA - ENVIRONMENTAL.

RWY 14: STANDARD.

RWY 32: STANDARD WITH MINIMUM CLIMB OF 230 FT PER NM TO 1900.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 14: CLIMB HEADING 144.22 TO 1300 BEFORE PROCEEDING ON COURSE.

RWY 32: CLIMB ON A HEADING BETWEEN 142 CW TO 270 FROM DEPARTURE END OF RUNWAY.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 14, TRAVERSE WAY 3 FT FROM DER, 378 FT LEFT OF CENTERLINE, 610 FT MSL. TRAVERSE WAY 52 FT FROM DER, 433 FT LEFT OF CENTERLINE, 622 FT MSL. POLE, TREE, BOAT 63 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 481 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/683 FT MSL. TREES, TRAVERSE WAY BEGINNING 239 FT FROM DER, 452 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/684 FT MSL. TREES, TRAVERSE WAY, POLE BEGINNING 304 FT FROM DER, 460 FT LEFT OF CENTERLINE, UP TO 685 FT MSL. TREES, POLE BEGINNING 616 FT FROM DER, 454 FT LEFT OF CENTERLINE, UP TO 80 FT AGL/688 FT MSL. TREES BEGINNING 1717 FT FROM DER, 557 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/690 FT MSL. TREES BEGINNING 1883 FT FROM DER, 570 FT LEFT OF CENTERLINE, UP TO 691 FT MSL. TREE 1958 FT FROM DER, 728 FT LEFT OF CENTERLINE, 84 FT AGL/698 FT MSL. TREES BEGINNING 1988 FT FROM DER, 467 FT LEFT OF CENTERLINE, UP TO 83 FT AGL/699 FT MSL.

NOTE: RWY 32, POLE, WIND INDICATOR BEGINNING 87 FT FROM DER, 264 FT RIGHT OF CENTERLINE, UP TO 17 FT AGL/625 FT MSL. BUILDING 140 FT FROM DER, 518 FT RIGHT OF CENTERLINE, 28 FT AGL/633 FT MSL. TREE 492 FT FROM DER, 593 FT RIGHT OF CENTERLINE, 32 FT AGL/638 FT MSL. TREE 531 FT FROM DER, 513 FT RIGHT OF CENTERLINE, 36 FT AGL/640 FT MSL. BOAT 949 FT FROM DER, 330 FT LEFT OF CENTERLINE, 35 FT AGL/639 FT MSL. TREE 3080 FT FROM DER, 533 FT RIGHT OF CENTERLINE, 81 FT AGL/686 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 32, 1519 AAO 464614.80N/0920925.57W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 14, RWY 32, 2049 MSL TOWER 464721.08N/0920651.38W

**REMARKS:**

35 FT AGL RECREATIONAL BOATS APPLIED FROM RUNWAY THRESHOLDS TO 5000 FT ON EXTENDED RUNWAY CENTERLINE, AND WITHIN 1400 FT OF SHORELINE. 90 FT AGL SHIPS APPLIED OUTSIDE THESE AREAS.

**FLIGHT INSPECTED BY**

SCOTT WIEBE

*Digitally signed by*

**JASON KRETSCHMER**

Jul 05, 2022

**OFFICE**

FPO

**DATE**

06/28/2022

**DEVELOPED BY**

DAVID DANNER (CHARLES BROOKS)

*Digitally signed by*

**JASON KRETSCHMER**

Jul 05, 2022

**OFFICE**

AJV-A421

**DATE**

12/11/2020

**APPROVED BY**

MARLON ROBINSON

*Digitally signed by*

**JASON KRETSCHMER**

Jul 05, 2022

**OFFICE**

AJV-A420

**DATE**

**TITLE**

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:**DLH APP CON, AMGR

**CHANGES - REASONS:**

VCOA NOT ESTABLISHED AT ATC REQUEST DUE TO AIRPORT VICINITY TO KSUW AND KDLH.

