

# RADIO FIX AND HOLDING DATA RECORD

NAME: MASWE STATE: MN COUNTRY: US ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 464654.95N/0920208.34W TYPE: DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

## FIX MAKE-UP FACILITIES:

| FAC | NAME   | IDENT | TYPE   | CLASS | MAG BRG | TRUE BRG | DME  | DIST FROM FAC NM | FAC FEET | MRA  | MAA   |
|-----|--------|-------|--------|-------|---------|----------|------|------------------|----------|------|-------|
| 1   | DULUTH | DLH   | VORTAC | VH    | 094.93  | 099.93   | 7.00 | 7.00             |          | 3500 | 17500 |

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE          | FAC | PAT | AIRPORT IDENT | CITY   | STATE   |
|----------|--------------------|-----|-----|---------------|--------|---------|
| EN ROUTE | V191               | 1   |     |               |        | (US)    |
| EN ROUTE | V430               | 1   |     |               |        | (US)    |
| IAP      | VOR OR TACAN RWY 3 | 1   |     | KDLH          | DULUTH | MN (US) |

REQUIRED CHARTING: MILITARY IAP, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 DATE OF REVISION: 05/14/2026

## REASON FOR REVISION:

1. DLH CLASS CHANGED FROM "H" TO "VH" IN FIX MAKE-UP FACILITIES.
2. SEPARATED EN ROUTE V191 AND V430 AND DELETED KDLH FROM AIRWAYS IN FIX USE.
3. ADDED FAC 1 TO EN ROUTE V191, V430 AND IAP VOR OR TACAN RWY 3 AT KDLH IN FIX USE.
4. DELETED "CONTROLLER" AND ADDED "MILITARY IAP, CONTROLLER LOW" IN REQUIRED CHARTING.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 NAME: DANIEL JOHNSEN

APPROVED BY: DATE: 04/09/2026 OFFICE: AJV-A432 NAME: CASIMIR TABAKA

SIGNATURE:

*Digitally signed by*  
**CASIMIR L TABAKA**  
Feb 02, 2026



# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MATEC **STATE:** MN **COUNTRY:** US **ICAO REGION CODE:** K3

**LATITUDE/LONGITUDE:** 465050.09N/0922134.41W **TYPE:** DME

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

**FIX MAKE-UP FACILITIES:**

| FAC | NAME   | IDENT | TYPE   | CLASS | MAG BRG | TRUE BRG | DME  | DIST FROM NM | FAC FEET | MRA  | MAA   |
|-----|--------|-------|--------|-------|---------|----------|------|--------------|----------|------|-------|
| 1   | DULUTH | DLH   | VORTAC | VH    | 287.80  | 292.80   | 7.00 | 7.00         |          | 3000 | 17500 |

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

| USE TYPE | USE TITLE          | FAC | PAT | AIRPORT IDENT | CITY   | STATE   |
|----------|--------------------|-----|-----|---------------|--------|---------|
| EN ROUTE | V430               | 1   |     |               |        | (US)    |
| IAP      | VOR OR TACAN RWY 3 | 1   |     | KDLH          | DULUTH | MN (US) |

**REQUIRED CHARTING:** MILITARY IAP, IAP, EN ROUTE LOW, CONTROLLER LOW

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 4 **DATE OF REVISION:** 05/14/2026

**REASON FOR REVISION:**

1. DLH CLASS CHANGED FROM "H" TO "VH" IN FIX MAKE-UP FACILITIES.
2. ADDED FAC 1 TO EN ROUTE V430 AND IAP VOR OR TACAN RWY 3 AT KDLH IN FIX USE.
3. DELETED KDLH FROM V430 IN FIX USE.
4. DELETED "CONTROLLER" AND ADDED "MILITARY IAP, CONTROLLER LOW" IN REQUIRED CHARTING.

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**  
**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A432 **NAME:** DANIEL JOHNSEN  
**APPROVED BY:** **DATE:** 04/09/2026 **OFFICE:** AJV-A432 **NAME:** CASIMIR TABAKA  
**SIGNATURE:** *Digitally signed by*  
**CASIMIR L TABAKA**  
Feb 02, 2026



