

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MANKATO VOR/DME **STATE:** MN **COUNTRY:** US **ICAO REGION CODE:** K3

**LATITUDE/LONGITUDE:** 441311.66N/0935444.48W **TYPE:**

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

**FIX MAKE-UP FACILITIES:**

| FAC | NAME    | IDENT | TYPE    | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC NM | MRA | MAA   |
|-----|---------|-------|---------|-------|---------|----------|-----|------------------|-----|-------|
| 1   | MANKATO | MKT   | VOR/DME | L     |         |          |     |                  |     | 17500 |

**HOLDING:** **HOLDING TYPE OF ACTION:** CANCEL

**PATTERNS:**

| PAT | DIR | IDENT | TYPE    | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME DME | HOLDING ALTITUDES MIN MAX | TEMPLATES MIN MAX |
|-----|-----|-------|---------|-------------|-------------|---------------|---------------------|---------------------------|-------------------|
| 1   | NW  | MKT   | VOR/DME | 329.00      | 149.00      | L             | 1                   | 2700 6000                 | 4 5               |
| 2   | NW  | MKT   | VOR/DME | 319.00      | 139.00      | L             | 1                   | 2700 6000                 | 4 5               |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | TOWER (27-002027) | 440957.00N/0935022.00W | 1380      | 4D            |
| 2   | 200      | TOWER (27-002027) | 440957.00N/0935022.00W | 1380      | 4D            |

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 AVOID TOWN OF MANKATO  
PAT 2 AVOID TOWN OF MANKATO

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETE.  
FACILITY MAG VAR: E07/1965

**FIX USE:**

| USE TYPE | USE TITLE                  | FAC | PAT | AIRPORT IDENT | CITY         | STATE   |
|----------|----------------------------|-----|-----|---------------|--------------|---------|
| EN ROUTE | V456                       |     |     |               |              | (US)    |
| IAP      | RNAV (GPS) RWY 12          |     |     | KFBL          | FARIBAULT    | MN (US) |
| IAP      | ILS OR LOC RWY 30 (ALT MA) |     | 1   | KOWA          | OWATONNA     | MN (US) |
| IAP      | RNAV (GPS) RWY 12          |     |     | KOWA          | OWATONNA     | MN (US) |
| IAP      | RNAV (GPS) RWY 15          |     |     | KACQ          | WASECA       | MN (US) |
| STAR     | TWOLF                      |     |     | KANE          | MINNEAPOLIS  | MN (US) |
| STAR     | TWOLF                      |     |     | KFCM          | MINNEAPOLIS  | MN (US) |
| STAR     | TWOLF                      |     |     | KLVN          | MINNEAPOLIS  | MN (US) |
| STAR     | TWOLF                      |     |     | KMIC          | MINNEAPOLIS  | MN (US) |
| STAR     | TWOLF                      |     |     | KMSP          | MINNEAPOLIS  | MN (US) |
| STAR     | TWOLF                      |     |     | KSTP          | ST PAUL      | MN (US) |
| STAR     | TWOLF                      |     |     | KRNH          | NEW RICHMOND | WI (US) |
| STAR     | TWOLF                      |     |     | KOEO          | OSCEOLA      | WI (US) |

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

**COMPULSORY REPORTING POINT:** LOW

**RECORD REVISION NUMBER:** 13 **DATE OF REVISION:** 10/05/2023

**REASON FOR REVISION:**

REMOVED KRWF - RNAV (GPS) RWY 30 FROM FIX USE.  
REMOVED KMKT - VOR RWY 15 FROM FIX USE.  
REMOVED KMKT - COPTER ILS OR LOC RWY 33.  
REMOVED KMKT - ILS OR LOC RWY 33.

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A423 **NAME:** KAMARUDINI RAIMI

**APPROVED BY:** **DATE:** 11/30/2023 **OFFICE:** AJV-A432 **NAME:** CASIMIR TABAKA

**SIGNATURE:**