

**FEDERAL AVIATION ADMINISTRATION**  
**FLIGHT STANDARDS SERVICE**  
**ILS STANDARD INSTRUMENT APPROACH PROCEDURE**  
**TITLE 14 CFR PART 97.29**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

|                                                 |                                         |                                                      |                                                  |                                         |                                  |
|-------------------------------------------------|-----------------------------------------|------------------------------------------------------|--------------------------------------------------|-----------------------------------------|----------------------------------|
| <u><b>AIRPORT</b></u><br>THIEF RIVER FALLS RGNL | <u><b>AIRPORT ID</b></u><br>KTVF        | <u><b>PROCEDURE NAME</b></u><br>ILS OR LOC RWY 31    | <u><b>ORIGINAL/AMENDMENT</b></u><br>5A           | <u><b>CITY</b></u><br>THIEF RIVER FALLS | <u><b>STATE</b></u><br>MN        |
| <u><b>AIRPORT ELEVATION</b></u><br>1119         | <u><b>TDZE</b></u><br>1114              | <u><b>SUPERSEDED</b></u><br>ILS OR LOC RWY 31        | <u><b>ORIGINAL/AMENDMENT</b></u><br>5            | <u><b>DATED</b></u><br>11/08/2018       | <u><b>MAG VAR</b></u><br>2E      |
| <u><b>FACILITY</b></u><br>I-HYZ                 | <u><b>COORDINATES OF FACILITIES</b></u> | <u><b>ACTUAL EFFECTIVE DATE</b></u><br>25 APRIL 2019 | <u><b>REQUIRED EFFECTIVE DATE</b></u><br>ROUTINE | <u><b>CANCEL/SUSPEND</b></u>            | <u><b>EPOCH YEAR</b></u><br>2015 |

**TERMINAL ROUTES**

| <u>FROM</u>             | <u>FIX TYPE</u> | <u>TO</u>           | <u>FIX TYPE</u> | <u>LEG TYPE</u> | <u>FO/FB</u> | <u>RNP</u> | <u>COURSE</u>              | <u>DISTANCE</u> | <u>ALTITUDE</u> |
|-------------------------|-----------------|---------------------|-----------------|-----------------|--------------|------------|----------------------------|-----------------|-----------------|
| TVF VOR/DME             |                 | JOLPA/TVF 5.61 DME  | FAF/IAF         |                 |              |            | 128.05                     | 5.61            | 2700            |
| UGACU/TVF 12.00 DME CCW | IAF             | WEMUP/TVF 12.00 DME | NOPT            |                 |              |            | 12.00 DME ARC (TVF LR-137) |                 | 2700            |
| ZALSO/TVF 12.00 DME CW  | IAF             | WEMUP/TVF 12.00 DME | NOPT            |                 |              |            | 12.00 DME ARC (TVF LR-117) |                 | 2700            |
| WEMUP/TVF 12.00 DME     | IF              | JOLPA/TVF 5.61 DME  |                 |                 |              |            | 312.78                     | 6.39            | 2700            |

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: TVF 0.81 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2700 THEN LEFT TURN DIRECT TVF VOR/DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT      **SIDE OF COURSE**      **OUTBOUND**      **FT WITHIN**      **MILES OF (IAF)**
2. HOLD SE JOLPA, RT, 312.78 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 4700.
3. **FAC:** 312.78      **FAF:** JOLPA/TVF 5.61 DME      **DIST FAF TO MAP:**      **DIST FAF TO THLD:** 4.81
4. **MIN ALT:** JOLPA/TVF 5.61 DME 2700, VERST/TVF 2.42 DME 1680\*
5. **DIST TO THLD FROM OM:**      **MM:**      **IM:**      **150 HAT:**      **GS ANT:** 1048
6. **MIN GS INCPT:** 2700      **GS ALT AT FAF :** JOLPA/TVF 5.61 DME 2700      **OM:**      **MM:**      **IM:**
7. **GP ANGLE:** 3.00      **34:1:**      **20:1:**      **TCH:** 55.2
8. **MSA FROM:** TVF VOR/DME 2700



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED FOR PROCEDURE ENTRY.  
DME REQUIRED.

NOTES:

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 31 CAT C/D VISIBILITY TO 1 SM.  
CHART NOTE: DME FROM TVF VOR/DME. SIMULTANEOUS RECEPTION OF I-HYZ AND TVF DME REQUIRED.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
CHART TVF R-253 AT UGACU.  
CHART TVF R-114 AT ZALSO.  
CHART VDP AT 1.72 DME\*  
DISTANCE VDP TO THLD 0.91 NM  
\* LOC ONLY  
CHART FAS OBST: 1206 TREE 480205N/0960826W.  
HOLD NW, RT, 117.00 INBOUND

MINIMUMS:  
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 900-2 3/4

| CATEGORY:  | A      |     |         | B      |     |         | C      |     |         | D      |       |         | E      |     |         |
|------------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-------|---------|--------|-----|---------|
| FINAL TYPE | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS | HAT/HAA | DA/MDA | VIS   | HAT/HAA | DA/MDA | VIS | HAT/HAA |
| S-ILS 31   | 1314   | 1/2 | 200     | 1314   | 1/2 | 200     | 1314   | 1/2 | 200     | 1314   | 1/2   | 200     |        |     |         |
| S-LOC 31   | 1460   | 1/2 | 346     | 1460   | 1/2 | 346     | 1460   | 5/8 | 346     | 1460   | 5/8   | 346     |        |     |         |
| CIRCLING   | 1540   | 1   | 421     | 1580   | 1   | 461     | 1820   | 2   | 701     | 1980   | 2 3/4 | 861     |        |     |         |

CHANGES - REASONS

1. ADDED NOPT TO BOTH INITIAL ARC SEGMENTS IN TERMINAL ROUTES. - INITIAL ARC SEGMENTS DO NOT REQUIRE A PROCEDURE TURN.  
2. ADDED A \* TO 1680 IN LINE 4 OF PROFILE VIEW. - DESIGNATE AS LOC ONLY.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR, ATA

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY

LIAM DONAHUE  
LIAM DONAHUE  
Nov 16, 2018

APPROVED BY

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Dec 18, 2018

OFFICE

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Dec 18, 2018

OFFICE

AJV-5431  
AJV-5430

DATE

DATE  
11/16/2018

DATE

TITLE  
MANAGER

