

**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>AIRPORT</u> GRAND FORKS INTL	<u>AIRPORT ID</u> KGFK	<u>PROCEDURE NAME</u> ILS OR LOC RWY 35L	<u>ORIGINAL/AMENDMENT</u> 12C	<u>CITY</u> GRAND FORKS	<u>STATE</u> ND	
<u>AIRPORT ELEVATION</u> 845	<u>TDZE</u> 845	<u>SUPERSEDED</u> ILS OR LOC RWY 35L	<u>ORIGINAL/AMENDMENT</u> 12B	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 6E	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> I-GFK	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 26 MARCH 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
GFK VOR/DME		HISER LOM/I-GFK 6.94 DME/RADAR		IF	FB		169.55	6.51	3600

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.57 NM AFTER HISER LOM/I-GFK 6.94 DME/RADAR OR AT I-GFK 1.38 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 THEN RIGHT TURN DIRECT GFK VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 3600 THEN RIGHT TURN DIRECT HISER LOM/I-GFK 6.94 DME/RADAR AND HOLD (ADF REQUIRED).

PROFILE:

1. PT L SIDE OF COURSE 174.02 OUTBOUND 2600 FT WITHIN 10 MILES OF HISER LOM/RADAR (IAF)
- 2.
3. FAC: 354.02 FAF: HISER LOM/I-GFK 6.94 DME/RADAR DIST FAF TO MAP: 5.57 DIST FAF TO THLD: 5.57
4. MIN ALT: HISER LOM/I-GFK 6.94 DME/RADAR 2600
5. DIST TO THLD FROM OM: 5.57 MM: IM: 150 HAT: GS ANT: 1289
6. MIN GS INCPT: 2600 GS ALT AT FAF : OM: 2536 MM: IM:
7. GP ANGLE: 2.76 34:1: 20:1: TCH: 60.9
8. MSA FROM: HISER LOM 220-310 3300, 310-220 2700

EQUIPMENT REQUIREMENTS NOTES:

ADF OR DME OR RADAR REQUIRED.



CHANGES - REASONS

1. CHANGED BACK-UP ALTIMETER NOTE FROM 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CROOKSTON ALTIMETER SETTING AND INCREASE ALL DA/MDA 80 FT; INCREASE S-LOC 35L CATS C/D/E VISIBILITY 1/8 MILE AND CIRCLING CAT E VISIBILITY 1/4 MILE' TO 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CROOKSTON ALTIMETER SETTING AND INCREASE DA TO 1107 FEET AND ALL MDA 80 FEET; INCREASE S-LOC 35L CATS C/D/E VISIBILITY TO RVR 4000 AND CIRCLING CATS C AND E VISIBILITY 1/4 SM' - PER 8260.3D CH. 3 VISIBILITY TABLES AND 8260.19H PARA 8-6-11N(1)(A).
2. CHANGED NOTE 'FOR INOPERATIVE MALSR, INCREASE S-ILS 35L CAT E VISIBILITY TO RVR 4000 AND S-LOC 35L CATS C/D/E VISIBILITY TO RVR 4500' TO 'FOR INOPERATIVE ALS, INCREASE S-ILS 35L CAT E VISIBILITY TO RVR 4000 AND S-LOC 35L CAT E VISIBILITY TO RVR 5000' - PER 8260.19H PARA 8-6-11 O(3).
3. CHANGED NOTE 'FOR INOPERATIVE MALSR WHEN USING CROOKSTON ALTIMETER SETTING, INCREASE S-ILS 35L ALL CATS VISIBILITY TO RVR 4500 AND S-LOC 35L CAT E VISIBILITY TO RVR 6000' TO 'FOR INOPERATIVE ALS WHEN USING CROOKSTON ALTIMETER SETTING, INCREASE S-ILS 35L ALL CATS VISIBILITY TO RVR 4500 AND S-LOC 35L CAT C/D/E VISIBILITY TO RVR 6000' - PER 8260.19H PARA 8-6-11 O(3).
4. ADDED EQUIPMENT REQUIREMENT NOTE: ADF OR DME OR RADAR REQUIRED - PER 8260.19H, PARA. 8-6-8A(1).
5. REMOVED PLANVIEW NOTE 'ADF, DME OR RADAR REQUIRED' - REPLACED BY EQUIPMENT REQUIREMENT NOTE: ADF OR DME OR RADAR REQUIRED.
6. ADDED PLANVIEW NOTE 'PROCEDURE NA FOR ARRIVAL ON GFK VOR/DME AIRWAY RADIALS 117 CW 230' - TURNS AT THE FEEDER FIX EXCEED 120 DEGREES AND PER 8260.19H PARA. 8-2-5E EXAMPLES.
7. VDP MOVED FROM 2.24 DME/0.87 NM TO THRESHOLD TO 2.31 DME/0.93 NM FROM THRESHOLD - PREVIOUS AMENDMENT RAISED S-LOC MDA/HAT FROM 1160/315 TO 1180/335 WITHOUT A CORRESPONDING CHANGE TO VDP LOCATION.
8. APPLIED NEW CIRCLING CRITERIA WITH AN INCREASED CIRCLING RADIUS - PER 8260.3D TABLE 3-3-7.
9. ADDED CIRCLING ICON - NEW CIRCLING ADDED THAT MATCHES UPDATED AND FLIGHT CHECKED RNAV (GPS) 17R CIRCLING.
10. CHANGED ALTERNATE MISSED APPROACH INSTRUCTIONS FROM 'OR WHEN DIRECTED BY ATC, CLIMB TO 3600 THEN RIGHT TURN DIRECT HISER LOM/I-GFK 6.94 DME/RADAR AND HOLD S, RT, 354.06 INBOUND' TO 'CLIMB TO 3600 THEN RIGHT TURN DIRECT HISER LOM/I-GFK 6.94 DME/RADAR AND HOLD (ADF REQUIRED)' - ALT MISSED APCH HOLDING IS AT HISER LOM AND PER 8260.19H PARA 8-6-6H.
11. TCH CHANGED FROM 60.8 TO 60.9 FT - PER TARGETS BUILD RESULTS.
12. REMOVED 7:1 OBSTACLE 969 TREE 475525N/0971134W - NO 7:1 OBSTACLES FOUND IN TARGETS BUILD.
13. ALTERNATE MINIMUMS CHANGED FROM 'ILS: STANDARD - CAT E 700-2 1/2; LOC: STANDARD - CAT E 800-2 1/2' TO 'ILS: STANDARD, CAT E 700 2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE, NA WHEN CONTROL TOWER CLOSED AND LOC: STANDARD, CAT E 800 2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE, NA WHEN CONTROL TOWER CLOSED - PER 8260.3D SECTION 3-4.
14. CHANGED FAS OBSTRUCTION FROM '910 TREE 475528N/0971047W' TO '930 TREE 475525N/0971102W' - PER UPDATED TARGETS RESULT.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: GFK ATCT, GFK APP CON, AMGR

FLIGHT CHECKED BY
SCOTT KNERR

Digitally signed by
DAVID DANNER
Feb 10, 2020

OFFICE
FICO
DATE
1/22/20

DEVELOPED BY
RALPH DUMAR

Digitally signed by
RALPH DUMAR
Dec 19, 2019

OFFICE
AJV-A422
DATE
11/08/2019

APPROVED BY
MARLON ROBINSON

DAVID DANNER
Feb 10, 2020

OFFICE
AJV-A420
DATE
TITLE
MANAGER

