FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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.

PROCEDURE NAME AIRPORT ORIGINAL/AMENDMENT **CITY STATE** AIRPORT ID MAHNOMEN COUNTY RNAV (GPS) RWY 35 **MAHNOMEN** MN 1A 3N8 **AIRPORT ELEVATION TDZE SUPERSEDED ORIGINAL/AMENDMENT DATED MAG VAR EPOCH YEAR** 1246 1246 RNAV (GPS) RWY 35 1 08/20/2015 2E 2015

FACILITY COORDINATES OF FACILITIES ACTUAL EFFECTIVE DATE REQUIRED EFFECTIVE DATE CANCEL/SUSPEND

RNAV 21 MAY 2020 ROUTINE

TERMINAL ROUTES THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 20-09.

FROM	FIX TYPE	<u>TO</u>	FIX TYPE	LEG TYPE	FO/FB	RNP	<u>COURSE</u>	DISTANCE	ALTITUDE
APRIW	IAF	IXRUG	NOPT	TF	FB	1.00	060.52	23.66	3500
STARR	IAF	IXRUG	NOPT	TF	FB	1.00	357.21	36.98	3500
IXRUG	IF/IAF	HUSTU		TF	FB	1.00	346.21	3.55	2800
HUSTU	FAF	WOTPA/1.70 NM TO RW35		TF	FB	0.30	346.20	3.06	
WOTPA/1.70 NM TO RW35		RW35	MAP	TF	FO	0.30	346.20	1.70	
RW35	MAP	1496 MSL		CA			346.20		
1496 MSL		ZUMIM		DF	FO	1.00			3500

MISSED APPROACH

MAP: LPV: DA

LNAV/VNAV: DA LNAV: RW35

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT ZUMIM AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

AIRPORT AIRPORT ID PROCEDURE NAME ORIGINAL/AMENDMENT CITY STATE
MAHNOMEN COUNTY 3N8 RNAV (GPS) RWY 35 1A MAHNOMEN MN

|--|

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD S IXRUG, RT, 346.21 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 346.20 **FAF:** HUSTU **DIST FAF TO MAP:** 4.76 **DIST FAF TO THLD:** 4.76

4. MIN ALT: IXRUG 3500, HUSTU 2800, WOTPA/1.70 NM TO RW35 1820*

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.66 GS ANT:

6. MIN GP INCPT: 2800 GP ALT AT FAF: HUSTU 2800 OM: MM: IM:

7. GP ANGLE: 3.00 **34:1**: IS CLEAR **20:1**: IS CLEAR **TCH**: 40.0

8. MSA FROM: RW35 3200

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 9 AND 27.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FOSSTON ALTIMETER SETTING.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT STARR ON V510 SOUTHEAST BOUND.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FOSSTON ALTIMETER SETTING AND INCREASE ALL DA TO 1549 FEET; INCREASE ALL MDA 60 FEET. ←

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 0.98 NM TO RW35*
*LNAV ONLY
WAAS CHANNEL #56532
REFERENCE PATH ID: W35A

CHART FAS OBST: 1333 TREE 471327N/0955537W.

HOLD N, RT, 166.15 INBOUND

LTP HAE: 351.8 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A		В			С			D			E			
FINAL TYPE	DA/MDA	<u>VIS</u>	HAT/HAA												
LPV DA	1496	1	250	1496	1	250		NA			NA				
LNAV/VNAV DA	1496	1	250	1496	1	250		NA			NA				
LNAV MDA	1600	1	354	1600	1	354		NA			NA				
CIRCLING	1640	1	394	1700	1	454		NA			NA				ONAL/7_ 18
															CHECKED

AIRPORT AIRPORT ID PROCEDURE NAME ORIGINAL/AMENDMENT CITY STATE
MAHNOMEN COUNTY 3N8 RNAV (GPS) RWY 35 1A MAHNOMEN MN

CHANGES - REASONS

- 1. REMOVED FEEDER FROM PKD VOR/DME FROM TERMINAL ROUTES PKD VORMON DECOMMISSIONING
- 2. PROFILE LINE 2 ADDED MAX 6000 HOLDING PATTERN AT IXRUG HAS A MAXIMUM HOLD OF 6000.
- 3. PROFILE LINE 7 ADDED 20:1 IS CLEAR RWY 17 20:1 VISUAL AREA IS CLEAR.
- 4. REMOVED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED PBN EQUIPMENT REQUIREMENTS NOTE: RNP APCH 8260.19H 8-6-8 B
- 5. CHANGED CHART NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C 8260.19H 8-6-9
- 6. REMOVED CHART NOTE: NIGHT LANDING: RWY 9, 27 NA AND ADDED CHART NOTE: CIRCLING NA TO RWYS 9 AND 27 RWY 9 AND 27 ARE TURF AND NO RAPT CONSENSUS FOR A TURF RUNWAY.
- 7. CHANGED CHART NOTE FROM: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FOSSTON ALTIMETER SETTING AND INCREASE ALL DA 53 FEET AND ALL MDA 60 FEET, AND INCREASE LNAV CAT C/D VISIBILITY 1/8 MILE TO CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FOSSTON ALTIMETER SETTING AND INCREASE ALL DA TO 1549 FEET; INCREASE ALL MDA 60 FEET, AND INCREASE LNAV CAT C/D VISIBILITY 1/8 SM. IAW 8260.19H SM IS USED TO DESCRIBE VISIBILITY VICE MILE.
- 8. REMOVED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PKD VOR/DME AIRWAY RADIALS 303 CW 359 PKD DECOMMISSIONING AND ROUTE REMOVED.

4/13/2020: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 2/20/2020.

1.CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FOSSTON ALTIMETER SETTING AND INCREASE ALL DA TO 1549 FEET; INCREASE ALL MDA 60 FEET, AND INCREASE LNAV CAT C/D VISIBILITY 1/8 SM." TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FOSSTON ALTIMETER SETTING AND INCREASE ALL DA TO 1549 FEET; INCREASE ALL MDA 60 FEET."

COORDINATED WITH:

A4A		OPA X	APA 🗌	HAI 🗌	NBAA X	OTHER: ZMP, AMGR			
				(AJW-33) ME	EMO, OCTOBER	3, 2018, SUBJECT: Digitally signed by	<u>OFFICE</u>	Digitally signed by DATE WARDELL HENNING Apr 13, 2020	
DEVELOPED WARDELL HI	ENNING (TYLEF	,				WARDELL HENNING Apr 13, 2020	OFFICE AJV-A432	DATE 11/22/2019	
APPROVED I GEORGE DA	<u> </u>	<i>Digitally signed</i> A RDELL HEN Apr 13. 2020	NING			, ,	OFFICE AJV-A430	<u>DATE</u>	<u>TITLE</u> MANAGER

<u>AIRPORT</u> **AIRPORT ID** PROCEDURE NAME ORIGINAL/AMENDMENT <u>CITY</u> **STATE** MAHNOMEN COUNTY 3N8 RNAV (GPS) RWY 35 1A MAHNOMEN MN

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	3N8
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
DEFENDE DATA OF FOTOR	^

REFERENCE PATH DATA SELECTOR 0

W35A REFERENCE PATH IDENTIFIER (APPROACH ID)

LTP/FTP LATITUDE 471518.6665N LTP/FTP LONGITUDE 0955541.3395W

LTP/FTP ELLIPSOIDAL HEIGHT +03518

FPAP LATITUDE 471645.8320N FPAP LONGITUDE 0955608.1450W

THRESHOLD CROSSING HEIGHT (TCH) 00040.0 F TCH UNITS SELECTOR (METERS OR FEET USED) **GLIDEPATH ANGLE (GPA)** 03.00 **COURSE WIDTH AT THRESHOLD** 106.75 **LENGTH OFFSET** 1712 **HORIZONTAL ALERT LIMIT (HAL)** 40.0 **VERTICAL ALERT LIMIT (VAL)** 50.0

CRC REMAINDER 26BBF5F2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K3 LTP ORTHOMETRIC HEIGHT +03788 **FPAP ORTHOMETRIC HEIGHT** +03788