

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.

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
PARK RAPIDS MUNI-KONSHOK FIELD	KPKD	RNAV (GPS) RWY 31	ORIG-D	PARK RAPIDS	MN	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
1445	1444	RNAV (GPS) RWY 31	ORIG-C	08/17/2017	4E	1995
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		21 MAY 2020	ROUTINE			

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>
CUCAC	IAF	ZUMLU	NOPT	TF	FB	1.00	298.96	21.15	3200
RECOS	IAF	ZUMLU	NOPT	TF	FB	1.00	224.70	18.77	3200
WATAM	IAF	ZUMLU	NOPT	TF	FB	1.00	027.93	22.83	3200
ZUMLU	IF/IAF	HIBEP		TF	FB	1.00	311.22	6.70	3200
HIBEP	FAF	WUTED/1.60 NM TO RW31		TF	FB	0.30	311.14	3.75	
WUTED/1.60 NM TO RW31		RW31	MAP	TF	FO	0.30	311.14	1.60	
RW31	MAP	1644 MSL		CA			311.14		
1644 MSL		YONUR		DF	FO	1.00			3300

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3300 DIRECT YONUR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD SE ZUMLU, RT, 311.22 INBOUND, 3200 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 311.14 FAF: HIBEP DIST FAF TO MAP: 5.35 DIST FAF TO THLD: 5.35

4. MIN ALT: ZUMLU 3200, HIBEP 3200, WUTED/1.60 NM TO RW31 2000*

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 200 HAT: 0.47 GS ANT: MM: IM:

6. MIN GP INCPT: 3200 GP ALT AT FAF : HIBEP 3200 OM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 52.7

8. MSA FROM: RW31 3400

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 34°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING RWY 18, 36 NA AT NIGHT.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM AND LNAV CAT C/D VISIBILITY TO 1 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 0.97 NM TO RW31*
*LNAV ONLY
WAAS CHANNEL #82525
REFERENCE PATH ID: W31A
CHART FAS OBST: 1549 TREE 465334N/0950410W.
HOLD NW, RT, 130.92 INBOUND
LTP HAE: 412.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 1100-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LPV DA	1644	1/2	200	1644	1/2	200	1644	1/2	200	1644	1/2	200			
LNAV/VNAV DA	1731	1/2	287	1731	1/2	287	1731	1/2	287	1731	1/2	287			
LNAV MDA	1800	1/2	356	1800	1/2	356	1800	5/8	356	1800	5/8	356			
CIRCLING	1900	1	455	1980	1	535	2000	1 1/2	555	2500	3	1055			



CHANGES - REASONS

1. DELETED BACKUP ALTIMETER NOTE FROM 8260-3; MOVED AND UPDATED BACKUP ALTIMETER NOTE TO BACK OF 8260-9 FROM: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WADENA ALTIMETER SETTING AND INCREASE ALL DA 75 FEET AND ALL MDA 80 FEET; INCREASE LNAV/VNAV ALL CATS AND CIRCLING CAT C VISIBILITY 1/4 MILE; INCREASE LNAV CAT C/D VISIBILITY 1/8 MILE TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WADENA ALTIMETER SETTING: INCREASE LPV DA TO 1719 FEET; INCREASE LNAV/VNAV DA TO 1806 FEET; INCREASE ALL MDA 80 FEET; INCREASE LNAV/VNAV ALL CATS AND CIRCLING CAT C VISIBILITY 1/4 SM; INCREASE LNAV CAT C/D VISIBILITY 1/8 SM - CRITERIA FORMAT CHANGE.
2. DELETED BARO-VNAV AND VDP NA NOTE FROM 8260-3 AND MOVED TO BACK OF 8260-9: CHART NOTE: BARO-VNAV AND VDP NA WHEN USING WADENA ALTIMETER SETTING - CRITERIA FORMAT CHANGE.
3. DELETED INOPERATIVE MALSR NOTE FROM 8260-3; MOVED AND UPDATED BACKUP ALTIMETER NOTE TO BACK OF 8260-9 FROM: CHART NOTE: FOR INOPERATIVE MALSR WHEN USING WADENA ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 7/8 MILE AND LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 MILE TO FOR INOPERATIVE ALS WHEN USING WADENA ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM AND LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 SM - CRITERIA FORMAT CHANGE.
4. DELETED NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - REFERENCE REVISED CRITERIA.
5. ADDED 20:1 IS CLEAR TO LINE #7 OF THE 8260-3 - REFERENCE 8260.19H CRITERIA NO 20:1 VISUAL SURFACE PENETRATIONS.
6. UPDATED BARO-VNAV NOTE FROM: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 34C (93F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 34°C - FAHRENHEIT NO LONGER REQUIRED.
7. REMOVED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WATAM ON V175 SOUTHBOUND - V175 GOING TO BE CANCELED.
8. REMOVED CHART NOTE: RWY 18,36 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - THIS NOTE DOES NOT PERTAIN TO RWY IN USE AND IS COVERED BY CIRCLING CHART NOTE.
9. UPDATED CHART NOTE FROM: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 MILE AND LNAV CAT C/D VISIBILITY TO 1 MILE TO FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM AND LNAV CATS C/D VISIBILITY TO 1 SM - FORMAT CHANGE PER 8260.19H.

COORDINATED WITH:

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

FLIGHT CHECKED BY

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

OFFICE

Digitally signed by

DATE**WARDELL HENNING**

Feb 24, 2020

DEVELOPED BY

SYLVAN DRAKES

Digitally signed by

SYLVAN DRAKES

Feb 03, 2020

OFFICE

AJV-A433

DATE

12/20/2019

APPROVED BY

LONNIE EVERHART

Digitally signed by

WARDELL HENNING

Feb 24, 2020

OFFICE

AJV-A430

DATE**TITLE**

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPKD
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	465345.7835N
LTP/FTP LONGITUDE	0950356.0940W
LTP/FTP ELLIPSOIDAL HEIGHT	+04126
FPAP LATITUDE	465448.8260N
FPAP LONGITUDE	0950527.8825W
THRESHOLD CROSSING HEIGHT (TCH)	00052.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	FFAEABEB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04398
FPAP ORTHOMETRIC HEIGHT	+04398

