

**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 ID</u> LUM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> MENOMONIE	<u>STATE</u> WI
<u>AIRPORT ELEVATION</u> 895	<u>TDZE</u> 895	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 1E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2000
				<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>
ETOHP	IF/IAF	TANTR		TF	FB	1.00	176.20	7.88	2700
TANTR	FAF	RW18	MAP	TF	FO	0.30	176.20	5.54	
RW18	MAP	1145 MSL		CA			176.20		
1145 MSL		DUNVL		DF	FO	1.00			3500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW18

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT DUNVL AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD N ETOHP, RT, 176.20 INBOUND, 3500 IN LIEU OF PT (IAF), MAX 6000.					
3. FAC: 176.20	FAF: TANTR		DIST FAF TO MAP: 5.54	DIST FAF TO THLD: 5.54	
4. MIN ALT: ETOHP 3500, TANTR 2700					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.66	GS ANT:
6. MIN GP INCPT: 2700	GP ALT AT PFAF: TANTR 2700			OM:	MM:
7. GP ANGLE: 3.00	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 40.0		IM:
8. MSA FROM: RW18 3200					



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING RWY 36 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD S, LT, 356.22 INBOUND.
FAS OBST: 1244 AAO 445939N/0915409W.
CHART VDP AT 1.78 NM TO RW18.
WAAS CHANNEL # 50149
REFERENCE PATH ID: W18A
LTP HAE: 242.1 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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	1145	1	250	1145	1	250		NA			NA				
LNAV/VNAV DA	1287	1 1/8	392	1287	1 1/8	392		NA			NA				
LNAV MDA	1500	1	605	1500	1	605		NA			NA				
CIRCLING	1500	1	605	1520	1	625		NA			NA				

CHANGES - REASONS

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR, WI AV DEPT.

FLIGHT CHECKED BY

SCOTT WIEBE

Digitally signed by

ROBERT G HAMILTON

Aug 26, 2026

OFFICE

AJF

DATE

08/24/2026

DEVELOPED BY

JOSHUA DUGAN

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Aug 26, 2026

OFFICE

AJV-A433

DATE

02/05/2026

APPROVED BY

ROBERT G HAMILTON

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ROBERT G HAMILTON

Aug 26, 2026

OFFICE

AJV-A433

DATE

07/30/2026

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLUM
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	445357.1530N
LTP/FTP LONGITUDE	0915208.7335W
LTP/FTP ELLIPSOIDAL HEIGHT	+02421
FPAP LATITUDE	445228.1665N
FPAP LONGITUDE	0915202.6325W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1696
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	0B587D0B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02728
FPAP ORTHOMETRIC HEIGHT	+02728



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u> LUM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 18	<u>AMDT NO.</u> ORIG	<u>CITY</u> MENOMONIE	<u>STATE</u> WI	<u>AIRPORT ELEVATION</u> 895	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM ETOHP (IF/IAF) **TO** TANTR

RNP 1.00 DISTANCE 7.88 PAT MAP HAT HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (55-000405)	450248.86N/0915147.63W	2180	250	50	4D	500					2700
TERRAIN	450654.00N/0915203.00W	1233 (1200)								AS1500	2700

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM TANTR **TO** RW18

RNP 0.30 DISTANCE 5.54 PAT MAP DA HAT 250 HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
BUILDING (55-027019)	445409.48N/0915210.44W	931	250	50	4D		34.00:1			AC50	1145

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM

TANTR

TO

RW18

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	5.54		DA	392	

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE	445503.00N/0915127.00W	1003	215	8	4B		23.36:1			AC8	1287

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

TANTR

TO

RW18

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	5.54		RW18	605	

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	445939.00N/0915409.00W	1244	215	8	4B	250					1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

ETHP

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-5	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (55-000405)	450248.86N/0915147.63W	2180	250	50	4D	1000				SA-523 AT843	3500
TERRAIN	451000.00N/0914839.00W	1328 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LPV

FROM

DA

TO

DUNVL

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 958			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3500
TOWER (55-001305)	445025.20N/0915406.70W	1437	250	50	4D	1000				SA-77	2400
TERRAIN	445121.00N/0915157.00W	1125 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: LNAV/VNAV

FROM

DA

TO

DUNVL

RNP 0.30-1.00	DISTANCE	PAT	MAP			HAT	HMAS 1145				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3500
TOWER (55-001305)	445025.20N/0915406.70W	1437	250	50	4D	1000				SA-77	2400
TERRAIN	445121.00N/0915157.00W	1125 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSSED APPROACH: LNAV

FROM

RW18

TO

DUNVL

RNP 0.30-1.00	DISTANCE	PAT	MAP			HAT	HMAS 1400				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3500
TOWER (55-001305)	445025.20N/0915406.70W	1437	250	50	4D	1000				SA-77	2400
TERRAIN	445121.00N/0915157.00W	1125 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID

LUM

PROCEDURE NAME

RNAV (GPS) RWY 18

AMDT NO.

ORIG

CITY

MENOMONIE

STATE

WI

AIRPORT ELEVATION

895

FACILITY

RNAV

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE	445212.00N/0915106.00W	1.30	605	1098	215	8	4B	300		SI	1500
CATEGORY B											
TOWER (55-167996)	445426.41N/0914932.13W	1.84	625	1201	20	3	1A	300			1520

CIRCLING REMARKS:

MSA

CENTER

RW18

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (55-000405)	450248.86N/0915147.63W	001	8.9	2180	250	50	4D	1000			3200

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC, GRB FSS

WX SERVICE AWOS-3PT	LOCATION LUM	HRS OPERATION 24	ALTIMETER SOURCE LUM	DISTANCE	WMSCR Y	ADJUSTMENTS 0
BACK-UP WX SERVICE ASOS	LOCATION EAU	HRS OPERATION 24	ALTIMETER SOURCE EAU	DISTANCE 16.40	WMSCR Y	ADJUSTMENTS 41

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KLUM = 895
KEAU = 913
RA = 40.4

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE	
RW09 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)	NPI-F		
RW18 - MIRL (PCL), PAPI-2L (PCL)	NPI-F		
RW27 - MIRL (PCL), REIL (PCL), PAPI-2L (PCL)	NPI-F		
RW36 - MIRL (PCL), PAPI-2R (PCL)	NPI-F		

QUALITY
8
CHECKED

GLIDESLOPE ANGLE

3.00

ELEV RWY THRESHOLD

895.0

TCH

40.0

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE

3.00

TCH

36.3

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

X

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE

ON CENTERLINE

X

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

-16C

CRITICAL HIGH

+54C

ACT

-16C

APT ISA

+13.23C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 718 HIGH TEMP 1137.

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 36		
20:1			
937 TREE (55-131826) 445313.7600N/0915203.5000W (7.22)		938 TREE (55-132123) 445313.1600N/0915203.2600W (5.15)	
933 TREE (55-131812) 445313.4400N/0915202.4700W (1.42)			
FINAL TYPE	LPV, LNAV/VNAV, LNAV		
34:1			
929 TREE (55-131781) 445407.5000N/0915206.6600W (9.32)		928 TREE (55-131424) 445407.7900N/0915206.8000W (7.44)	
928 TREE (55-131667) 445407.8900N/0915206.1900W (7.2)		927 TREE (55-131957) 445408.0600N/0915206.7000W (5.65)	
926 TREE (55-131430) 445407.9200N/0915206.3700W (5.1)		931 BLDG ((55-027019)) 445409.4800N/0915210.4400W (5.04)	
912 TRAVERSE_WAY (55-131905) 445403.8400N/0915209.7000W (2.89)		923 TREE (55-131680) 445408.1600N/0915206.3900W (1.38)	
<u>PENETRATIONS REMARKS:</u>			

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED

CONTINGENCY NOTES FOR BACKUP ALTIMETER CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE EAU ALTIMETER SETTING AND INCREASE LPV DA TO 1186 FEET. INCREASE LNAV/VNAV DA TO 1328 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 60 FEET.

BARO-VNAV AND VDP NA WHEN USING EAU ALTIMETER SETTING.

LPV VISIBILITY LIMITED TO 1 SM DUE TO NO FULL-LENGTH PARALLEL RUNWAY.

APPLIED WAIVER TO ORDER 8260.58, US STANDARD FOR PBN NAVIGATION INSTRUMENT PROCEDURE DESIGN, APPENDIX C PBN TRANSITION TO ILS/GLS/LPV. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.34
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	177.20
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1000
DISTANCE FROM	THLD	TO 1500FT POINT	5.14
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	177.20
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1000

THRESHOLD COORDINATES (IF STR-IN) 445357.15N/0915208.73W

ARP COORDINATES 445332.44N/0915204.05W

RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 27 DISTANCE 0.45 NM

FAF COORDINATES 445929.26N/0915231.55W

FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
JOSHUA DUGAN	AJV-A433	02/05/2026	AERONAUTICAL INFORMATION SPECIALIST

