

**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> KDAW	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> ROCHESTER	<u>STATE</u> NH		
<u>AIRPORT ELEVATION</u> 322	<u>TDZE</u> 322	<u>SUPERSEDED</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 12/17/2009	<u>MAG VAR</u> 16W	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 17 JUNE 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 237/30 CW 057/30	NOPT	LGURI	IF/IAF	3000
2. 057/30 CW 147/30		057/15 CW 147/15		3700
3. 057/15 CW 147/15		GRVEL	IAF	3000
4. 147/30 CW 237/30		147/15 CW 237/15		3700
5. 147/15 CW 237/15		OGNQT	IAF	3000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
OGNQT	IAF	LGURI	NOPT	TF	FB	1.00	237.20	6.70	3000
GRVEL	IAF	LGURI	NOPT	TF	FB	1.00	057.07	6.70	3000
LGURI	IF/IAF	ROLNS		TF	FB	1.00	327.14	5.94	1900
ROLNS	FAF	RW33	MAP	TF	FO	0.30	327.07	4.82	
RW33	MAP	2000 MSL		CA			327.07		2000
2000 MSL		LGURI		DF	FO	1.00			3000

QUALITY
22
CHECKED

MISSED APPROACH**MAP:**

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT LGURI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:**PROFILE:**

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD SE LGURI, RT, 327.14 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	327.07	FAF: ROLNS	DIST FAF TO MAP: 4.82		DIST FAF TO THLD: 4.82
4. MIN ALT:	LGURI 3000, ROLNS 1900				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.65	GS ANT:
6. MIN GP INCPT:	1900	GP ALT AT FAF :	ROLNS 1900	OM:	MM:
7. GP ANGLE:	3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 43.3	IM:
8. MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS

NOTES:

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV AND LNAV/VNAV ALL CATS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV VISIBILITY CAT A AND B TO 1 SM AND CAT C TO 1 1/4 SM.

ADDITIONAL FLIGHT DATA:

FAS OBST: 519 TREE 431637N/0705611W.
CHART VDP AT 1.30 NM TO RW33*
*LNAV ONLY.
WAAS CHANNEL # 72715
REFERENCE PATH ID: W33A
CHART CIRCLING ICON.
LTP HAE: 71.3 M

MINIMUMS:

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

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

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	572	3/4	250	572	3/4	250	572	3/4	250		NA				
LNAV/VNAV DA	689	1	367	689	1	367	689	1	367		NA				
LNAV MDA	780	3/4	458	780	3/4	458	780	1 1/8	458		NA				
CIRCLING	960	1	638	960	1	638	960	1 3/4	638		NA				

CHANGES - REASONS

1. MSA REMOVED, TAA ADDED - PER ATC REQUEST.
2. REMOVED FEEDER ENE VORTAC TO BUKKA - PER ATC REQUEST.
3. REMOVED INITIAL PSM VOR/DME TO LUGRI - PER ATC REQUEST AND PSM VORMON PROJECT.
4. ADDED NEW INITIAL GRVEL TO LGURI - PER ATC REQUEST AND TO ESTABLISH BASIC T CONFIGURATION.
5. TERMINAL ROUTES: BUKKA (CHANGED TO OGNQT) TO LGURI COURSE CHANGED FROM 236.77 TO 237.20 AND DISTANCE CHANGED FROM 8.42 TO 6.70 - TO ENSURE 90 DEGREE TURN TO FINAL AND ESTABLISH BASIC T CONFIGURATION. ATC REQUESTED OGNQT AT 6.70 TO STAY WITH IN ATC AIRSPACE.
6. MISSED APPROACH INSTRUCTION CHANGED FROM CLIMB TO 3000 DIRECT ASVAY AND VIA TRACK 071.61 TO CIMDO AND VIA TRACK 187.58 TO LGURI AND HOLD - TO - CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT LGURI AND HOLD - PER ATC REQUEST.
7. DIS FAF TO MAP AND DIST FAF TO THLD CHANGED FROM 4.76 TO 4.82 - FAF MOVED TO MATCH VGSI GPA AND TCH.
8. 305 HAT AT 0.82 CHANGED TO 250 HAT AT 0.65 - LPV HAT CHANGED FROM 305 TO 250.
9. CHANGED 34:1 FROM IS NOT CLEAR TO IS CLEAR AND ADDED 20:1 IS CLEAR - NEW TARGETS EVALUATION.
10. REMOVED CHART NOTE DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH-GPS - PER 8260.19I PAR 8-6-8B.
11. REMOVED CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA - 34:1 AND 20:1 CLEAR.
12. REMOVED CHART NOTE: BARO-VNAV NA WHEN USING PORTSMOUTH ALTIMETER SETTING AND CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORTSMOUTH ALTIMETER SETTING AND INCREASE ALL DA 62 FEET AND ALL MDA 80 FEET, AND LPV ALL CATS, LNAV/VNAV ALL CATS, LNAV CAT C, AND CIRCLING CAT B-C 1/4 MILE - MOVED NOTE TO BACK OF THE -9, AIRPORT ON WMSCR.
13. REMOVED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PSM VOR/DME VIA V3 SOUTHBOUND AND CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT ENE VORTAC ON AIRWAY RADIALS 178 CW 242 - FEEDER FROM ENE VORTAC TO BUKKA AND INITIAL FROM PSM VOR/DME TO LGRI REMOVED.
14. CHANGED CHART FAS OBST: 430 TREE 431643N/0705534W, 425 TREE 431643N/0705533W TO FAS OBST: 519 AAO 431637N/0705611W - NEW CONTROLLING OBSTACLE ON FINAL.
15. ADDED CHART VDP AT 1.30 NM TO RW33 - 20:1'S CLEAR.
16. LTP HAE CHANGED FROM 71.1M TO 71.3 - ELLIPSOIDAL HEIGHT CHANGED.
17. LPV MINIMUMS DA/HAT CHANGED FROM 627/305 TO 572/250 AND VIS CHANGED FROM 1 SM TO 3/4 SM.
18. LNAV/VNAV MINIMUMS CHANGED FROM DA/HAT 695/373 TO 689/367 AND VIS CHANGED FROM 1 1/4 SM TO 1 SM.
19. LNAV MINIMUMS CHANGED FROM MDA/HAT 860/538 TO 780/458 AND CAT A AND B VIS CHANGED FROM 1 SM TO ¾ SM AND CAT C VIS CHANGED FROM 1 1/2 TO 1 1/8.
20. CIRCLING MINIMUMS (ALL CATS) CHANGED FROM MDA/HAT 1020/698 TO 960/638 AND VIS CAT C CHANGED FROM 2 SM TO 1 3/4 SM.
21. FAS DATA BLOCK INFORMATION CHANGES:
 - ELLIPSOIDAL HEIGHT CHANGED FROM +00711 TO +00713
 - FPAP LAT/LONG CHANGED FROM 431748.1000N/ 0705657.0200W TO 431748.1010N/ 0705657.0105W
 - LENGTH OF OFFSET CHANGED FROM 1528 TO 1472
 - CRC REMAINDER CHANGED FROM F87D1D6F TO 8820C075
 - LTP/FPAP ORTHOMETRIC HEIGHT CHANGED FROM +00980 TO +00982

AIRPORT ID
KDAW

PROCEDURE NAME
RNAV (GPS) RWY 33

ORIGINAL/AMENDMENT
1

CITY
ROCHESTER

STATE
NH

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZBW, BOS APP CON, BGR FSS, AMGR

FLIGHT CHECKED BY

DANIEL KIRBY

Digitally signed by

DONALD H LANIER

Apr 16, 2021

OFFICE

FICO

DATE

04/15/2021

DEVELOPED BY

TARA MARTINELLI

Digitally signed by

TARA N MARTINELLI

Feb 19, 2021

OFFICE

AJV-A431

DATE

02/19/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

DONALD H LANIER

Apr 16, 2021

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	KDAW
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	431649.6305N
LTP/FTP LONGITUDE	0705524.9460W
LTP/FTP ELLIPSOIDAL HEIGHT	+00713
FPAP LATITUDE	431748.1010N
FPAP LONGITUDE	0705657.0105W
THRESHOLD CROSSING HEIGHT (TCH)	00043.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1472
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	8820C075

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00982
FPAP ORTHOMETRIC HEIGHT	+00982